

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198890

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL4-7050-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3802 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

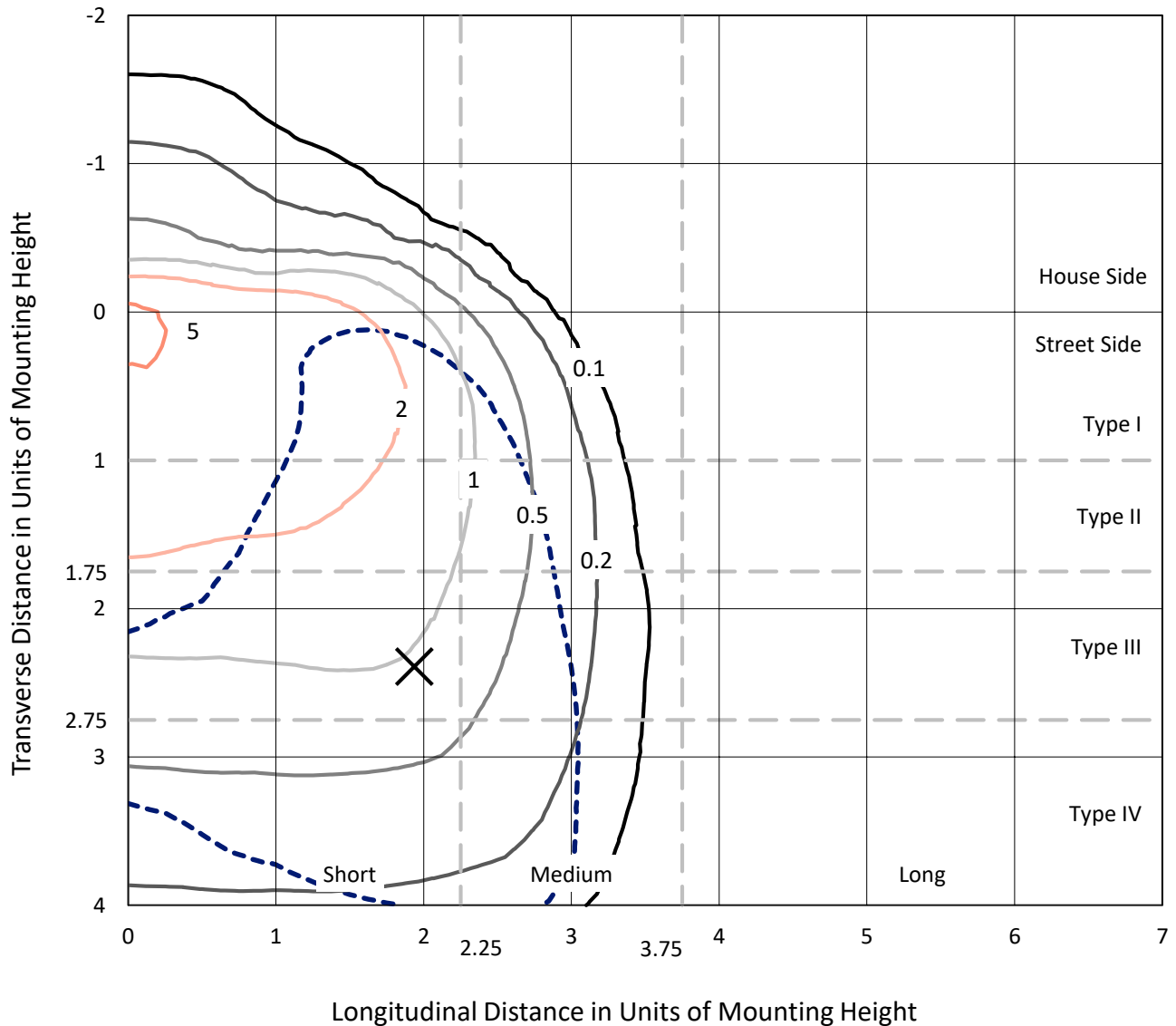
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

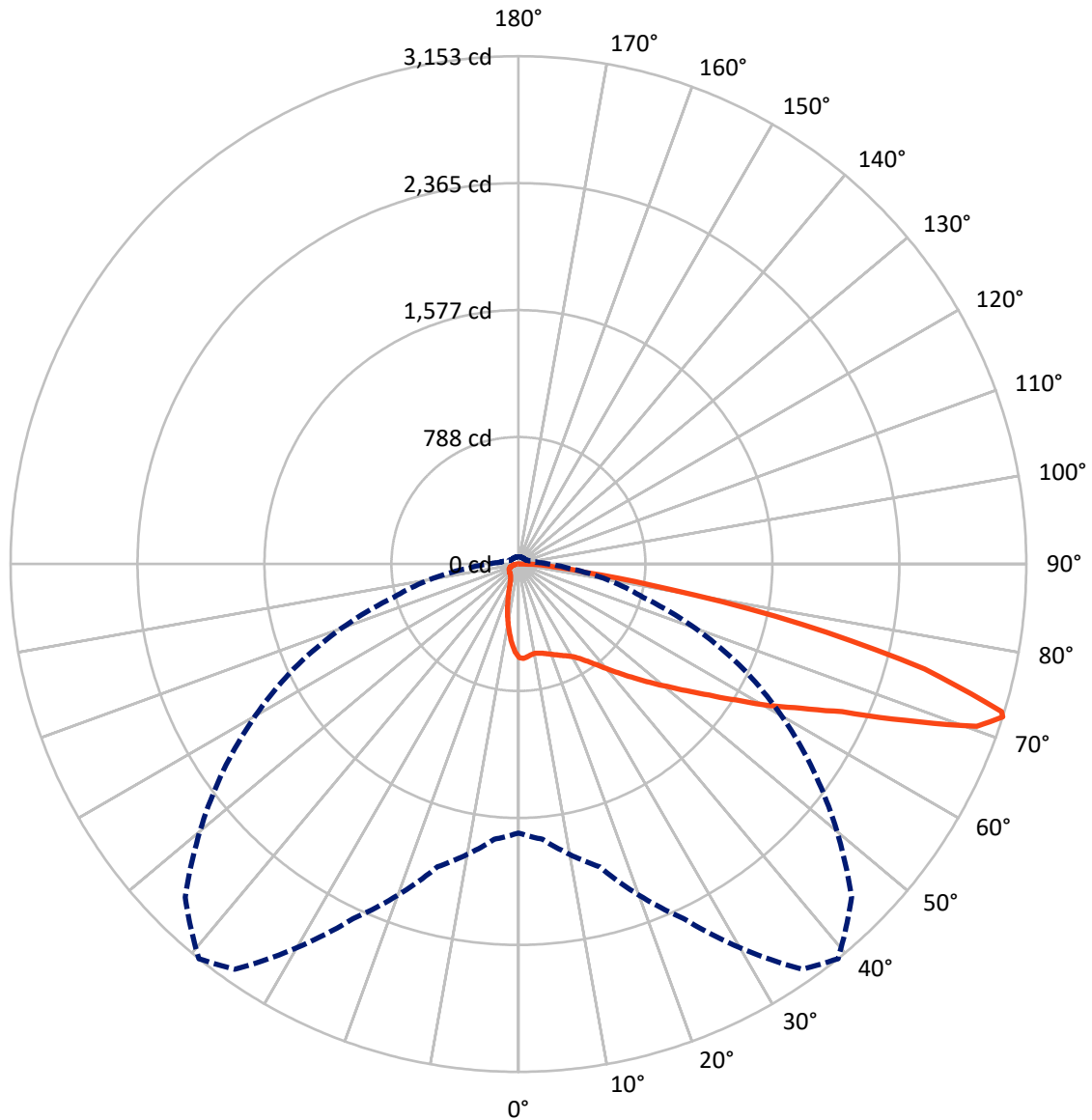
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.0	0.0	436.0
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	3366.0	0.0	3366.0
	% Fixture	88.5	0.0	88.5
Total	Lumens	3802.0	0.0	3802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.3
10°-20°	125.4	3.3
20°-30°	195.4	5.1
30°-40°	300.8	7.9
40°-50°	490.4	12.9
50°-60°	762.1	20.0
60°-70°	1020.0	26.8
70°-80°	733.6	19.3
80°-90°	124.3	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3802.0	100.0
0°-180°	3802.0	100.0

Coefficient of Utilization



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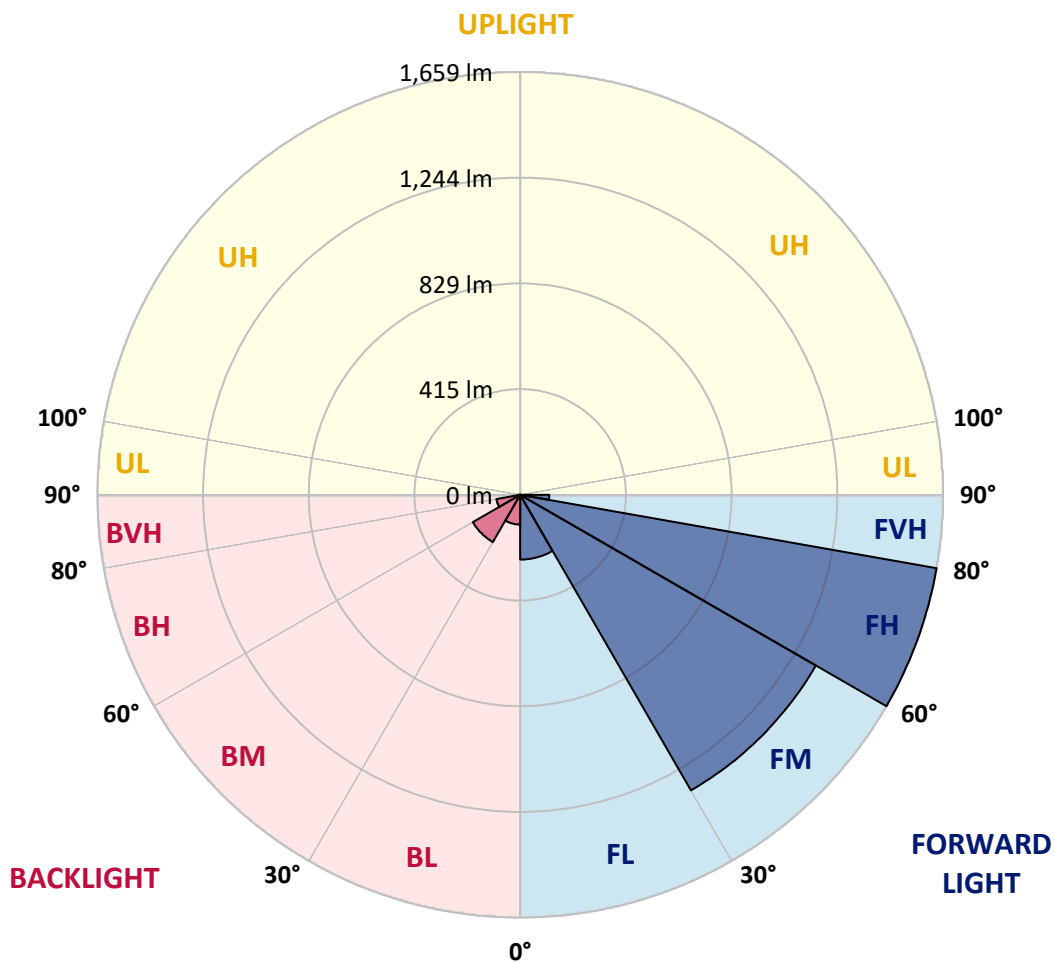
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.0	6.7			
FM	(30°-60°)	1339.1	35.2			
FH	(60°-80°)	1658.9	43.6			G1/1800
FVH	(80°-90°)	114.1	3.0			G2/225
BL	(0°-30°)	116.7	3.1	B1/500		
BM	(30°-60°)	214.2	5.6	B0/220		
BH	(60°-80°)	94.7	2.5	B0/110		G0/110
BVH	(80°-90°)	10.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6
2.5°	593.1	593.4	592.6	590.3	588.3	587.3	585.5	582.4	578.3	575.5	573.2
5°	587.5	588.3	587.8	584.0	580.4	578.3	575.5	571.2	565.8	563.5	558.2
7.5°	583.2	583.7	582.2	577.8	570.9	568.4	563.3	557.7	552.8	549.5	543.1
10°	580.1	580.6	579.4	575.0	567.4	564.3	558.2	552.0	545.7	541.6	534.4
12.5°	575.8	576.8	576.8	574.8	569.7	567.6	561.5	554.9	549.0	544.6	535.7
15°	575.0	576.3	578.6	578.3	576.8	575.3	570.4	563.8	558.7	553.6	542.6
17.5°	581.4	584.2	588.8	590.3	589.3	586.0	580.4	574.3	568.6	563.8	550.3
20°	597.5	599.0	605.9	609.0	603.9	599.0	591.6	583.7	578.6	574.8	557.4
22.5°	621.7	623.8	629.4	629.6	618.9	613.0	603.6	593.9	589.1	587.5	567.1
25°	660.5	660.0	661.5	655.2	635.8	628.9	617.4	606.2	602.8	605.9	581.4
27.5°	707.0	705.7	700.8	684.3	654.9	646.0	632.2	622.2	622.2	629.4	600.8
30°	760.6	759.3	743.5	715.6	677.6	667.4	652.9	642.4	647.8	661.5	627.1
32.5°	817.2	812.6	790.4	753.2	710.0	698.8	684.8	674.0	684.3	707.7	664.9
35°	870.6	868.0	840.7	796.6	751.9	742.4	732.7	719.5	735.8	772.3	718.2
37.5°	925.7	923.7	890.2	843.3	802.9	796.6	788.4	779.2	805.5	853.5	790.4
40°	987.2	983.1	941.0	894.0	862.4	859.3	855.0	852.4	894.8	966.3	881.8
42.5°	1056.9	1049.0	994.6	949.9	927.2	929.8	927.5	937.7	1002.5	1096.4	990.5
45°	1136.5	1120.7	1047.9	1009.4	998.9	1009.2	1014.0	1040.0	1129.9	1246.8	1112.0
47.5°	1211.0	1190.6	1106.4	1074.0	1079.9	1097.5	1111.2	1157.2	1269.5	1395.3	1236.0
50°	1279.7	1256.7	1168.9	1140.8	1169.4	1194.4	1223.0	1287.9	1418.0	1548.2	1349.9
52.5°	1330.5	1313.9	1231.5	1213.8	1272.3	1305.5	1351.2	1433.1	1568.1	1693.9	1451.5
55°	1369.8	1360.9	1292.5	1297.6	1388.7	1436.1	1491.5	1585.7	1726.8	1824.6	1533.1
57.5°	1415.2	1408.6	1362.1	1398.6	1533.1	1592.9	1658.2	1762.8	1877.9	1939.7	1597.2
60°	1463.2	1463.2	1439.7	1520.4	1713.8	1782.2	1847.3	1928.7	2028.5	2043.3	1623.2
62.5°	1499.4	1508.9	1517.3	1650.0	1885.3	1970.3	2041.8	2119.9	2184.5	2094.4	1562.0
65°	1552.0	1572.2	1619.6	1799.8	2097.7	2209.0	2305.4	2371.0	2310.8	2053.8	1362.1
67.5°	1642.4	1672.2	1773.3	2022.9	2422.8	2589.5	2683.2	2569.8	2286.0	1798.3	1043.4
70°	1723.8	1765.9	1938.7	2305.9	2845.5	3018.5	2975.4	2523.7	1991.0	1318.2	641.9
72°	1669.7	1715.6	1946.3	2429.2	3071.4	3153.0	2925.6	2236.5	1538.5	804.5	316.5
72.5°	1634.2	1681.9	1921.6	2426.2	3077.5	3135.9	2856.5	2122.4	1396.6	703.9	256.0
75°	1365.2	1406.0	1652.3	2150.3	2712.0	2604.8	2229.1	1373.6	641.9	227.4	131.7
77.5°	891.5	922.6	1139.3	1489.7	1899.6	1796.5	1356.8	643.2	240.7	138.1	99.0
80°	447.9	470.1	609.7	783.3	1025.2	943.3	626.3	311.1	161.0	99.8	77.8
82.5°	311.6	332.0	419.8	399.9	428.5	414.7	294.5	259.6	120.5	63.0	40.8
85°	261.3	282.5	347.4	285.1	233.3	212.6	211.1	245.3	79.6	31.1	34.5
87.5°	227.9	260.1	286.6	208.3	160.0	141.1	155.4	224.9	25.3	17.1	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6	580.6
2.5°	569.4	568.6	564.8	558.9	554.6	551.8	546.4	546.2	546.7	542.1	543.9
5°	553.3	550.3	540.3	526.8	515.8	505.3	493.9	490.0	486.7	479.8	480.6
7.5°	536.5	531.1	513.8	491.6	470.4	451.0	431.8	422.4	415.2	406.3	406.3
10°	526.5	518.1	491.6	459.1	425.5	397.1	368.5	351.4	338.9	327.5	326.7
12.5°	526.0	513.3	476.2	431.6	385.4	345.6	306.5	280.2	261.6	248.1	246.8
15°	530.1	512.2	463.5	405.8	347.6	295.8	247.6	214.1	190.4	175.3	173.8
17.5°	533.7	511.0	449.7	378.8	310.9	247.8	194.2	159.5	137.1	124.8	123.5
20°	537.0	508.2	432.1	350.2	270.3	202.9	151.9	123.8	109.0	102.1	101.3
22.5°	541.8	505.6	413.7	318.0	230.5	165.1	125.3	105.2	97.2	93.9	93.4
25°	549.8	505.9	395.9	285.1	194.0	137.6	108.5	96.0	91.6	89.3	89.3
27.5°	561.2	508.9	378.2	251.7	163.1	118.7	98.5	91.1	88.3	86.5	86.0
30°	578.1	514.5	359.6	220.0	138.6	105.7	92.6	88.1	85.8	84.2	84.0
32.5°	602.6	524.5	340.0	191.2	120.0	96.5	88.3	85.5	83.7	82.4	82.2
35°	639.1	542.1	320.8	166.7	106.7	89.8	84.7	82.4	81.4	80.9	80.7
37.5°	692.7	570.4	302.7	147.5	98.0	85.5	81.2	79.9	79.4	79.4	79.4
40°	760.1	607.7	286.4	134.0	93.2	82.2	78.6	77.6	77.6	77.8	77.8
42.5°	842.0	654.4	272.3	124.8	90.3	79.9	76.8	76.3	76.1	76.1	76.3
45°	937.2	709.5	263.6	117.7	88.3	78.6	75.5	75.3	74.3	73.8	73.8
47.5°	1032.9	768.5	263.1	113.6	85.8	77.1	74.3	74.3	72.2	71.2	71.5
50°	1122.2	821.3	268.8	112.6	84.2	74.8	73.0	73.2	70.4	69.2	68.9
52.5°	1194.2	861.6	275.6	113.8	84.2	72.7	70.7	72.0	68.9	67.4	67.1
55°	1249.8	889.7	278.2	116.6	85.2	71.0	68.7	70.7	68.4	66.4	66.4
57.5°	1289.6	898.6	267.2	117.9	86.8	70.7	66.6	70.4	69.2	66.6	66.6
60°	1275.1	846.8	226.4	113.1	86.5	70.2	65.1	71.0	71.7	68.9	68.9
62.5°	1161.5	708.5	181.7	102.1	82.2	68.4	63.3	70.4	73.5	72.5	72.0
65°	945.6	519.6	140.9	89.1	74.8	64.6	59.5	65.8	69.4	70.4	70.7
67.5°	666.4	329.0	109.5	75.8	65.6	59.0	55.1	58.2	59.5	60.0	61.0
70°	364.5	178.1	87.0	63.8	56.1	53.3	50.5	50.8	50.3	49.8	50.3
72°	183.0	116.4	73.5	55.4	49.8	48.0	46.7	45.9	45.9	45.2	45.4
72.5°	157.5	108.2	71.0	53.3	48.2	46.7	45.7	44.9	44.7	44.2	44.4
75°	104.9	85.8	59.2	44.7	41.1	40.1	40.6	39.8	40.1	39.6	39.8
77.5°	84.7	73.8	50.3	37.8	35.2	33.7	34.7	35.0	35.5	35.0	34.7
80°	71.0	62.8	42.1	31.1	29.4	28.1	28.6	30.4	30.6	29.1	28.8
82.5°	45.9	50.5	33.2	24.2	22.5	21.9	23.2	25.0	25.5	23.5	23.0
85°	38.5	40.6	24.0	16.6	14.8	14.3	16.8	18.6	19.9	17.9	17.4
87.5°	10.7	19.9	11.7	7.9	6.6	6.6	8.2	9.7	11.5	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)