

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: P198852

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-7050-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

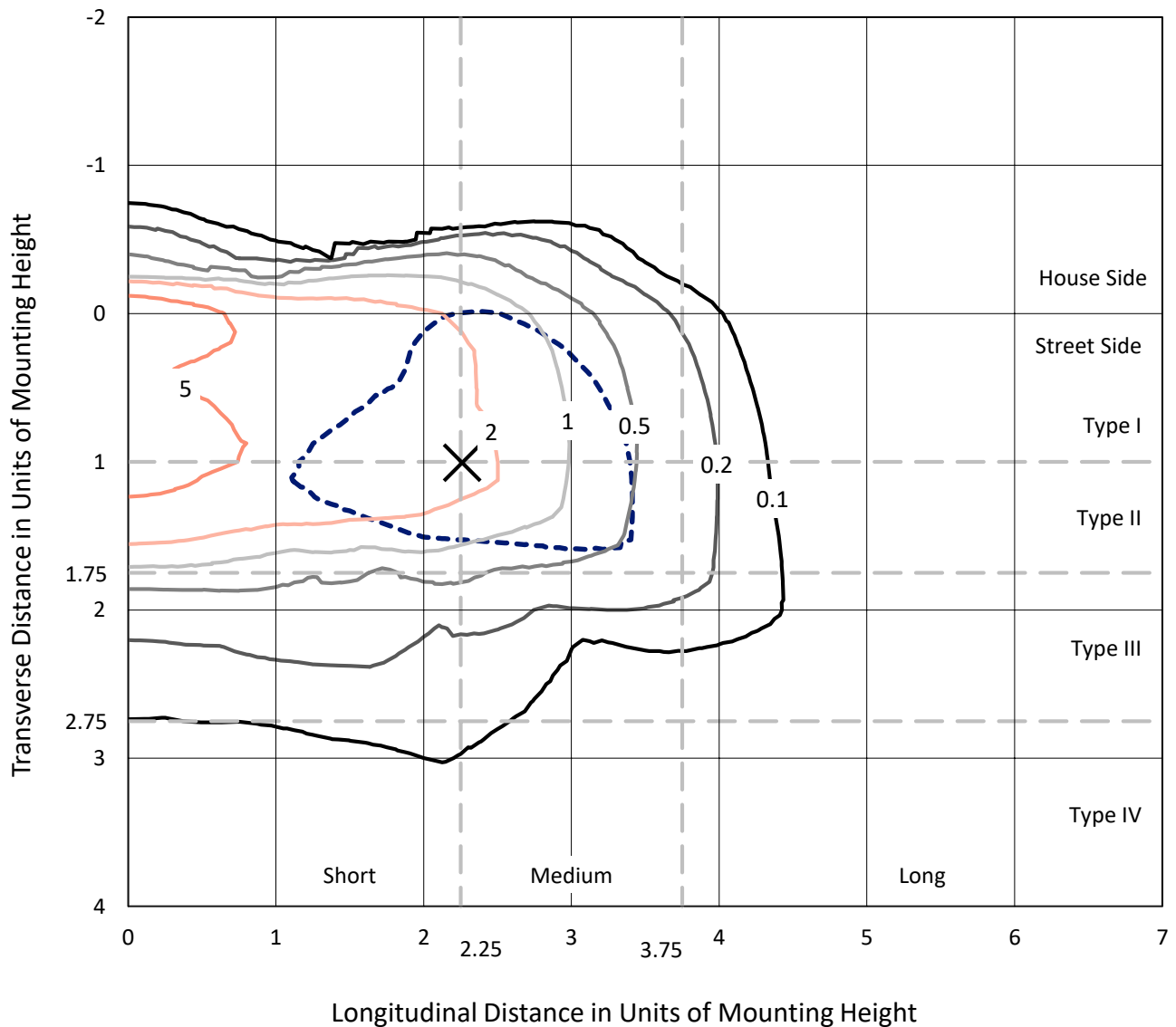


REPORT NUMBER: P198852

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

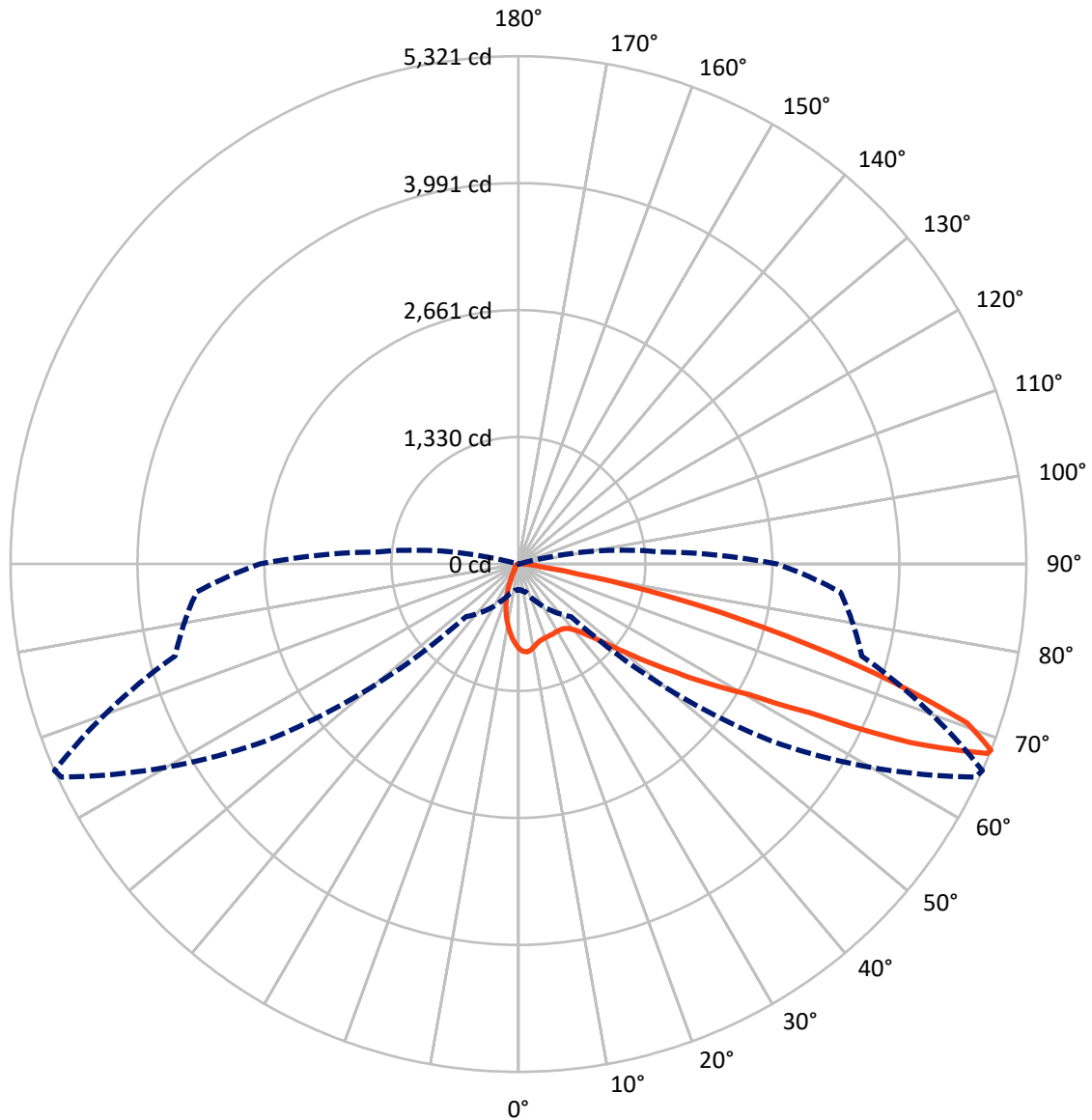


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P198852

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P198852

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-800-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.7	0.0	403.7
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	3582.3	0.0	3582.3
	% Fixture	89.9	0.0	89.9
Total	Lumens	3986.0	0.0	3986.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.8
10°-20°	156.6	3.9
20°-30°	227.0	5.7
30°-40°	347.5	8.7
40°-50°	594.3	14.9
50°-60°	929.7	23.3
60°-70°	1070.5	26.9
70°-80°	535.7	13.4
80°-90°	51.9	1.3
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°	3986.0	100.0
0°-180°	3986.0	100.0



REPORT NUMBER: P198852

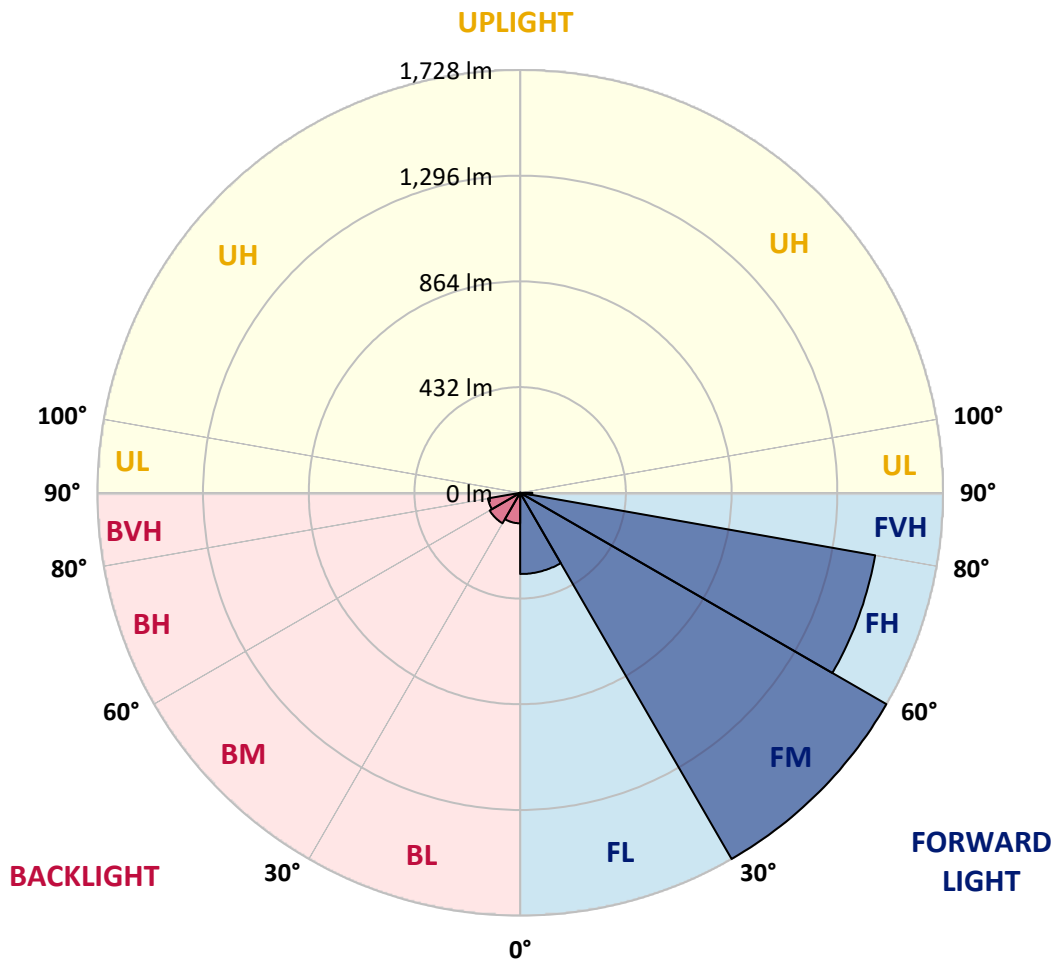
CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.8	8.3			
FM (30°-60°)	1727.7	43.3			
FH (60°-80°)	1472.8	36.9			G1/1800
FVH (80°-90°)	49.9	1.3			G1/100
BL (0°-30°)	124.6	3.1	B1/500		
BM (30°-60°)	143.8	3.6	B0/220		
BH (60°-80°)	133.4	3.3	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





REPORT NUMBER: P198852

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0
2.5°	934.0	934.7	934.4	935.3	934.7	930.0	925.0	914.3	915.3	901.5	886.2
5°	868.3	873.6	879.0	884.3	897.1	908.4	921.8	925.0	925.0	913.1	890.5
7.5°	801.4	801.7	807.6	814.8	832.0	852.7	884.0	912.1	912.8	915.9	891.2
10°	751.0	752.6	756.6	764.4	781.7	802.0	837.0	881.2	884.6	907.8	884.9
12.5°	711.9	713.8	718.1	727.2	742.9	763.8	800.7	851.1	855.8	899.9	883.0
15°	681.8	684.3	687.8	696.9	713.8	736.0	776.3	831.1	836.7	896.8	889.0
17.5°	669.3	669.3	669.0	675.3	692.2	714.7	756.9	820.5	827.7	899.3	899.0
20°	674.6	673.7	667.1	665.6	675.9	698.4	741.6	813.6	821.7	904.0	911.2
22.5°	702.8	700.9	686.2	674.0	670.9	685.9	731.3	808.9	818.6	913.7	927.5
25°	762.6	756.9	736.6	709.1	684.3	682.8	724.1	806.4	816.7	925.0	945.3
27.5°	840.2	838.6	806.1	769.1	721.6	693.1	721.9	804.5	814.8	933.1	959.7
30°	936.5	937.2	899.6	851.4	779.5	722.2	728.8	803.6	814.2	933.7	966.0
32.5°	1036.1	1036.7	1005.4	953.8	858.6	772.3	748.2	807.9	817.6	931.2	965.6
35°	1131.8	1132.7	1114.0	1072.3	964.4	841.7	784.8	823.0	829.8	932.8	965.0
37.5°	1252.9	1256.7	1233.5	1194.7	1097.1	943.7	844.5	853.3	858.9	945.6	969.7
40°	1459.4	1454.4	1388.1	1322.4	1241.0	1068.0	930.9	905.6	907.4	978.8	987.5
42.5°	1700.0	1693.8	1580.2	1466.9	1389.0	1217.9	1041.4	985.7	985.4	1034.5	1026.4
45°	1907.2	1903.4	1783.9	1632.8	1553.0	1383.4	1177.5	1101.1	1097.4	1130.9	1097.1
47.5°	2054.3	2051.1	1960.7	1809.3	1742.6	1565.5	1347.4	1258.5	1250.7	1257.0	1211.9
50°	2068.7	2065.2	2033.6	1936.3	1964.1	1832.7	1557.4	1464.7	1454.7	1445.0	1385.6
52.5°	1934.1	1933.8	1950.4	1944.1	2119.4	2176.6	1814.9	1719.8	1707.9	1683.2	1624.0
55°	1659.1	1657.5	1720.4	1811.8	2115.9	2531.5	2207.6	2023.3	2007.6	1958.2	1880.6
57.5°	1212.2	1204.1	1335.5	1529.2	1967.3	2686.7	2831.2	2400.3	2374.4	2217.6	2098.1
60°	669.3	672.4	841.4	1070.8	1615.2	2656.0	3405.1	2840.0	2771.8	2441.3	2320.9
62.5°	375.2	383.0	508.8	695.9	1029.8	2407.2	3713.0	3596.6	3432.3	2702.3	2602.5
65°	283.8	288.5	351.7	537.0	649.3	1682.2	3762.1	4654.6	4512.8	3097.8	3050.9
67.5°	267.2	271.0	302.0	445.3	591.4	872.4	3392.3	5280.4	5298.2	3637.3	3398.2
68°	269.1	273.8	304.8	428.4	590.5	780.4	3234.6	5283.5	5321.4	3724.3	3386.3
70°	247.2	248.5	322.3	420.2	572.3	614.9	2340.0	4921.5	4989.4	3827.8	3074.0
72.5°	94.5	94.8	144.6	363.9	599.5	618.3	1178.7	3889.8	3893.2	3331.3	2396.6
75°	49.1	41.3	45.4	113.9	572.6	602.7	591.4	2656.0	2639.4	2253.0	1468.5
77.5°	33.8	28.8	30.4	39.4	238.1	602.4	427.1	1527.3	1523.9	958.4	419.0
80°	19.1	16.6	18.1	33.2	83.5	565.4	398.0	656.5	618.6	168.3	67.9
82.5°	9.7	8.1	9.7	27.8	51.9	355.8	387.1	257.5	229.4	40.1	44.1
85°	2.5	2.5	4.7	19.4	32.2	116.7	347.0	185.9	167.1	17.5	31.3
87.5°	0.6	0.3	1.9	7.2	11.6	25.3	192.4	103.6	89.2	9.1	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198852

CATALOG NUMBER: XNV-AF-01-LED-U-SL2-7050-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0	888.0
2.5°	879.9	871.1	853.9	834.5	820.8	805.7	797.0	786.3	778.2	771.0	776.3
5°	876.8	859.9	821.7	778.8	742.9	708.4	682.8	658.4	639.9	628.3	633.0
7.5°	868.6	843.6	781.7	714.7	655.9	600.5	555.4	515.1	483.8	466.9	472.2
10°	854.9	819.5	736.3	643.3	561.1	482.8	415.9	355.8	310.4	289.1	294.1
12.5°	844.9	798.2	689.3	574.5	466.2	355.2	266.3	197.4	162.1	140.8	142.7
15°	840.5	781.7	645.5	501.9	362.7	228.1	143.9	104.2	92.0	87.6	87.9
17.5°	841.1	768.5	603.9	426.5	258.2	131.1	88.2	79.5	77.6	76.7	76.7
20°	842.7	755.4	560.7	348.0	165.2	84.5	73.5	70.7	69.8	68.5	68.8
22.5°	847.4	745.4	517.2	269.1	101.7	68.8	65.1	62.6	61.0	59.1	59.5
25°	854.6	737.8	474.4	193.7	71.7	60.1	56.6	53.2	50.4	48.2	48.5
27.5°	858.9	727.2	428.7	132.0	59.5	52.6	47.9	43.2	40.1	38.2	37.9
30°	855.8	710.0	376.7	86.7	52.6	45.4	39.7	34.4	31.3	29.7	29.7
32.5°	847.4	687.8	319.5	63.2	46.6	39.1	32.2	27.5	25.3	24.4	24.7
35°	837.7	664.6	258.5	53.5	41.9	33.2	26.3	22.5	21.6	21.3	21.3
37.5°	832.3	644.6	200.0	48.5	37.5	27.5	21.6	19.4	18.5	18.5	18.5
40°	838.3	629.3	148.0	44.7	33.2	22.8	18.1	16.6	16.3	16.3	16.3
42.5°	863.6	623.9	108.3	41.6	28.8	19.1	15.6	14.4	14.1	14.4	14.4
45°	913.1	635.5	82.0	38.5	24.7	15.6	13.5	12.5	12.5	12.8	12.8
47.5°	996.9	665.3	67.3	35.4	20.7	13.1	11.6	11.0	11.0	11.3	11.3
50°	1127.1	720.3	60.4	31.9	17.2	11.3	9.7	9.4	9.4	9.7	10.0
52.5°	1324.9	825.1	56.9	28.5	14.1	9.4	8.1	7.8	8.1	8.4	8.4
55°	1544.8	959.4	52.9	25.0	11.9	7.8	6.6	6.6	6.9	7.5	7.5
57.5°	1749.8	1088.9	49.1	20.7	10.3	6.3	5.3	5.3	5.9	6.6	6.6
60°	1966.3	1216.0	44.1	16.6	8.8	5.0	4.4	4.4	5.3	5.9	6.3
62.5°	2233.9	1363.7	37.5	13.1	6.9	3.8	3.1	4.1	5.0	5.9	5.9
65°	2620.6	1547.3	29.4	10.3	5.3	2.8	2.5	3.8	4.7	5.6	5.9
67.5°	2761.1	1523.9	22.2	8.4	4.1	2.2	2.2	3.4	4.7	5.6	5.6
68°	2709.8	1472.6	21.3	8.1	3.8	2.2	2.2	3.4	4.7	5.6	5.6
70°	2361.2	1203.8	17.5	6.3	3.1	1.9	1.9	3.1	4.7	5.3	5.6
72.5°	1768.0	799.8	15.0	4.1	2.8	1.9	1.6	3.1	4.4	5.3	5.3
75°	1014.1	332.0	12.8	3.1	2.5	1.6	1.6	2.8	4.4	5.3	5.3
77.5°	286.6	77.6	10.3	2.5	2.2	1.6	1.3	2.8	4.1	5.0	5.0
80°	52.6	23.2	8.1	2.2	1.9	1.6	1.3	2.8	4.1	5.0	5.0
82.5°	34.7	11.0	5.9	2.2	1.9	1.6	1.3	2.5	3.8	4.7	4.7
85°	26.0	7.8	3.8	2.2	1.9	1.6	1.3	2.5	3.8	4.7	4.7
87.5°	14.4	3.4	2.8	2.5	2.2	1.6	1.3	2.2	3.4	4.4	4.4
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)