

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: P271219

Luminaire Tested: **XNV-AF-01-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24283)
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-AFL-7027-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4839.7 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

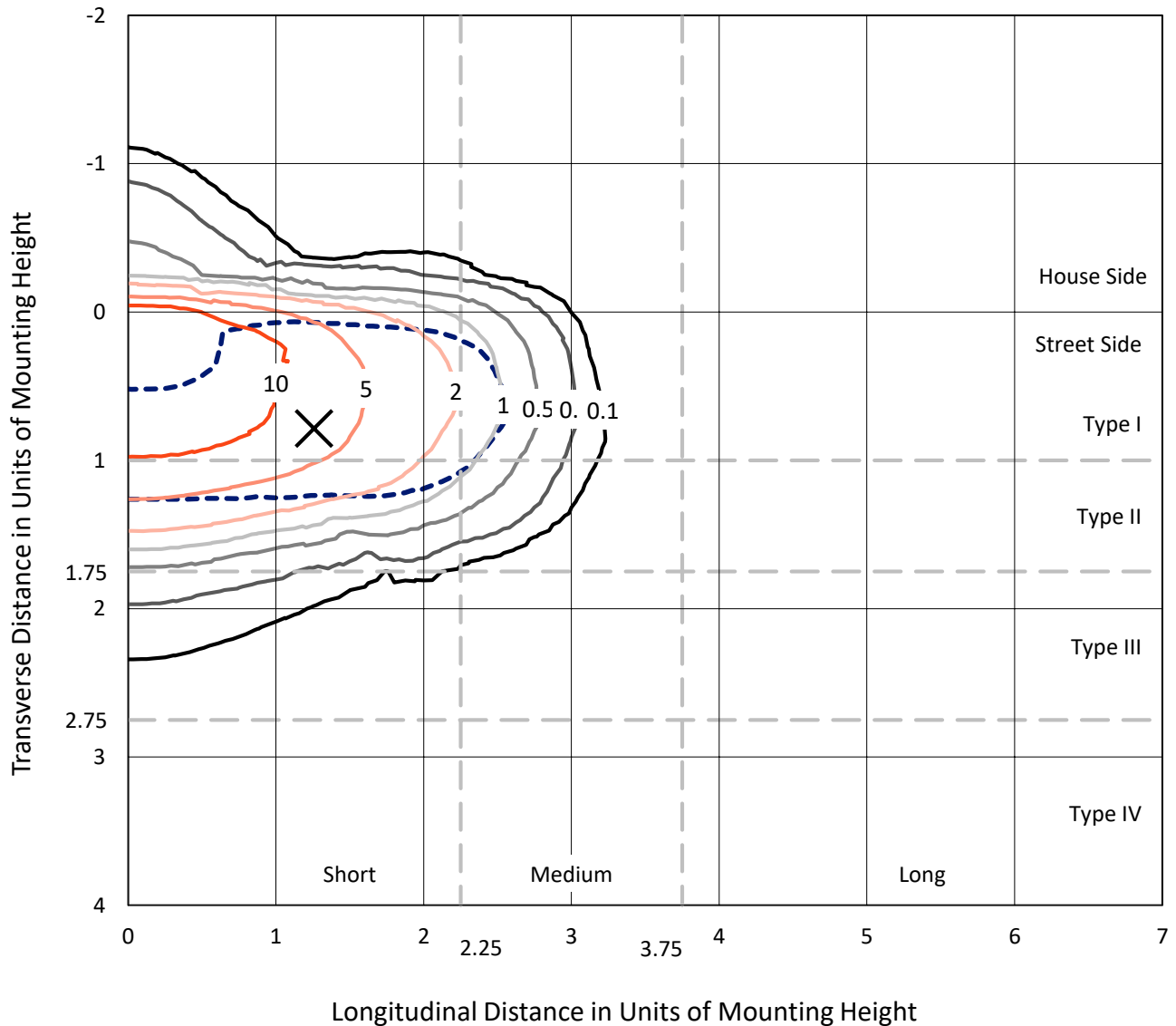


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

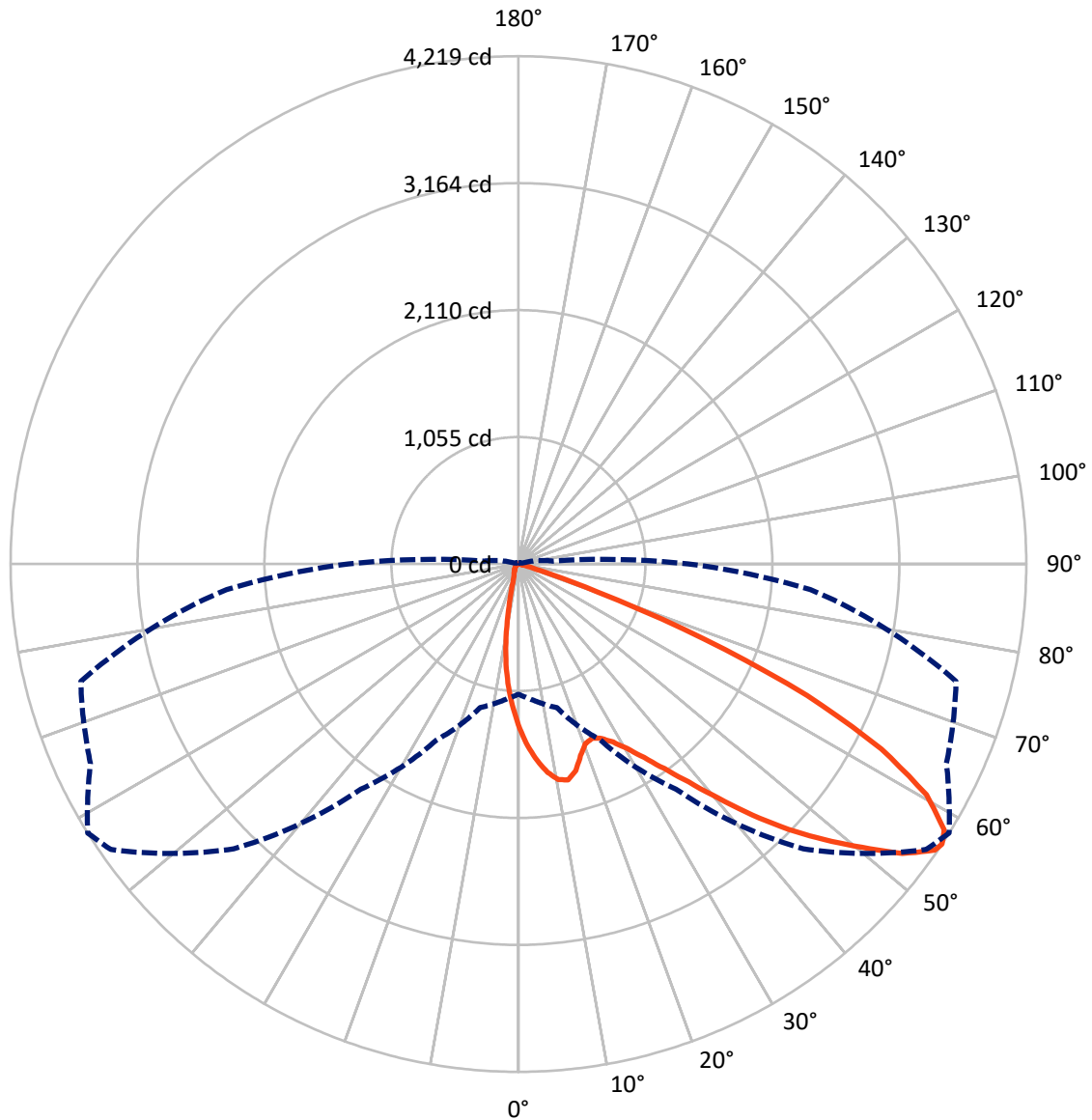


Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.1	0.0	302.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4537.6	0.0	4537.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	4839.7	0.0	4839.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.4
10°-20°	272.0	5.6
20°-30°	457.7	9.5
30°-40°	783.7	16.2
40°-50°	1182.6	24.4
50°-60°	1229.3	25.4
60°-70°	690.1	14.3
70°-80°	94.6	2.0
80°-90°	12.8	0.3
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°	4839.7	100.0
0°-180°	4839.7	100.0

Coefficient of Utilization



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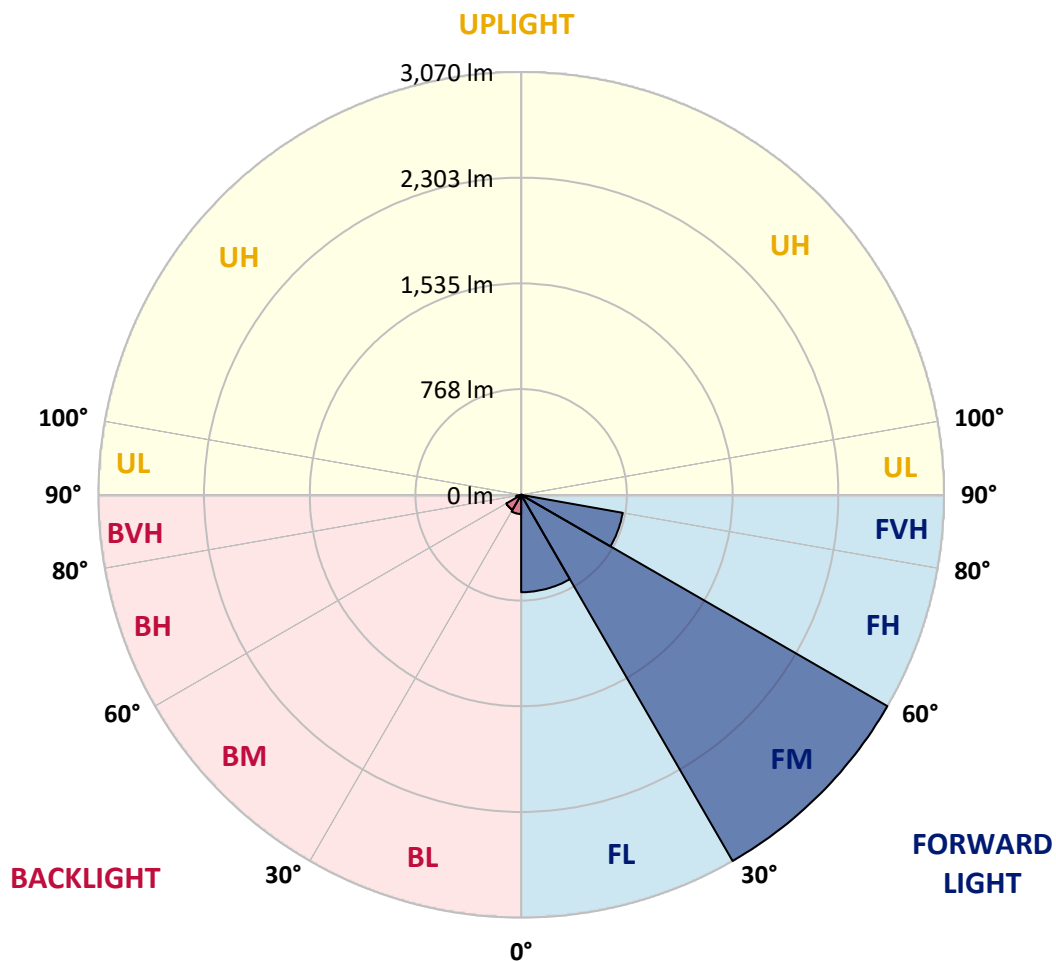
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.2	14.6			
FM	(30°-60°)	3070.5	63.4			
FH	(60°-80°)	748.9	15.5			G1/1800
FVH	(80°-90°)	11.1	0.2			G1/100
BL	(0°-30°)	139.4	2.9	B1/500		
BM	(30°-60°)	125.1	2.6	B0/220		
BH	(60°-80°)	35.8	0.7	B0/110		G0/110
BVH	(80°-90°)	1.8	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3
2.5°	1648.7	1638.7	1628.4	1609.1	1591.4	1564.0	1526.5	1517.1	1487.8	1438.9	1393.5
5°	1790.9	1789.0	1782.0	1766.4	1747.3	1714.1	1671.6	1643.1	1597.4	1520.6	1433.1
7.5°	1706.6	1722.1	1747.7	1783.9	1808.2	1804.9	1772.4	1747.7	1702.2	1597.4	1471.9
10°	1438.5	1441.5	1476.6	1552.7	1673.1	1785.3	1827.7	1821.1	1779.5	1664.6	1505.7
12.5°	1344.0	1345.9	1354.0	1378.4	1456.6	1613.3	1805.7	1840.3	1836.9	1728.8	1542.0
15°	1351.4	1352.6	1354.7	1362.5	1384.6	1463.2	1693.3	1781.6	1874.0	1789.8	1577.5
17.5°	1409.8	1409.0	1402.1	1394.6	1401.6	1427.4	1579.0	1671.9	1866.1	1841.0	1606.6
20°	1523.4	1527.2	1503.6	1470.6	1453.6	1454.8	1522.4	1592.2	1822.7	1881.0	1628.4
22.5°	1683.3	1685.9	1647.2	1590.3	1540.5	1515.4	1534.2	1571.1	1772.4	1917.8	1646.1
25°	1874.3	1874.3	1820.0	1739.1	1662.0	1607.0	1590.7	1604.7	1753.1	1959.6	1663.8
27.5°	2080.4	2087.8	2016.9	1910.9	1808.9	1728.3	1677.5	1674.9	1768.0	2012.1	1683.8
30°	2304.4	2311.1	2226.9	2097.4	1976.6	1873.5	1795.3	1778.3	1824.5	2082.5	1712.9
32.5°	2527.6	2533.0	2439.9	2307.7	2167.2	2046.0	1942.9	1916.1	1926.0	2185.5	1755.7
35°	2811.1	2812.1	2694.3	2537.1	2386.7	2244.7	2114.3	2087.8	2076.6	2315.6	1817.5
37.5°	3036.7	3027.7	2953.2	2804.4	2631.9	2483.5	2330.4	2295.6	2268.9	2498.2	1913.0
40°	3089.8	3089.8	3078.8	3034.0	2897.0	2754.3	2605.8	2554.1	2495.3	2713.6	2041.6
42.5°	2951.3	2960.3	3033.3	3130.5	3131.5	3040.0	2894.9	2851.3	2747.9	2958.7	2181.9
45°	2641.6	2644.2	2819.5	3081.6	3259.7	3312.1	3205.1	3144.8	3001.5	3213.5	2310.4
47.5°	2530.0	2538.3	2612.8	2933.2	3269.3	3532.6	3502.6	3419.9	3236.5	3446.2	2430.4
50°	2358.7	2368.7	2459.9	2714.7	3182.9	3674.0	3787.3	3698.7	3450.2	3640.0	2489.8
52.5°	1948.9	1964.4	2093.2	2425.6	2966.8	3679.8	4048.0	3994.9	3669.1	3743.7	2482.7
55°	1341.1	1352.6	1502.9	1893.4	2531.2	3499.3	4160.3	4196.8	3864.5	3767.0	2448.8
56°	1081.9	1124.7	1234.7	1613.3	2283.0	3345.6	4134.4	4219.0	3922.4	3763.3	2434.0
57.5°	715.2	723.3	843.4	1169.1	1833.4	3012.2	4017.7	4171.6	3997.1	3744.4	2423.4
60°	336.3	340.1	383.2	539.4	992.2	2195.2	3638.6	3894.1	4024.3	3705.0	2423.0
62.5°	219.4	220.1	225.2	257.4	405.9	1195.6	3016.4	3384.2	3798.0	3700.6	2415.9
65°	180.6	182.4	176.2	180.2	212.3	450.9	2127.5	2638.2	3266.6	3596.5	2336.9
67.5°	159.1	159.4	151.1	146.2	155.4	197.8	1071.9	1664.2	2443.3	3055.9	1924.9
70°	145.2	144.7	135.1	124.1	124.4	131.4	349.4	691.2	1351.8	1814.4	1105.2
72.5°	128.8	129.5	124.1	108.5	103.3	93.1	131.4	186.5	460.1	582.7	291.3
75°	112.9	111.5	106.0	95.9	86.3	62.4	66.0	79.4	120.1	118.8	62.8
77.5°	85.7	84.3	86.7	81.9	67.6	43.6	36.2	41.3	54.3	50.6	25.5
80°	65.3	64.6	59.1	70.2	61.7	32.9	24.8	25.5	29.6	26.9	12.5
82.5°	47.3	46.9	44.6	43.2	39.2	24.1	18.9	19.9	22.2	18.9	9.3
85°	18.1	18.1	35.0	29.6	26.9	16.3	13.2	14.5	17.0	13.7	6.3
87.5°	3.0	3.0	23.6	19.6	12.1	8.2	8.5	9.3	10.1	8.2	4.9
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°	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3	1370.3
2.5°	1366.6	1341.8	1287.5	1235.1	1189.4	1139.1	1113.5	1084.2	1073.0	1050.8	1053.2
5°	1380.5	1329.0	1220.0	1105.2	1000.0	892.8	816.7	745.1	705.3	665.7	665.7
7.5°	1395.0	1315.9	1147.7	964.2	786.8	603.3	473.3	369.3	311.3	272.5	271.4
10°	1404.9	1299.4	1065.3	800.5	539.2	311.0	187.6	147.7	133.3	127.0	126.7
12.5°	1417.9	1282.8	971.4	607.8	299.4	147.7	117.0	110.9	108.2	106.7	106.7
15°	1428.9	1259.2	857.7	408.8	157.4	110.9	100.8	98.5	98.3	97.8	98.3
17.5°	1431.5	1225.5	721.5	239.3	114.1	96.7	92.3	90.5	90.5	90.1	90.1
20°	1425.6	1181.2	570.9	147.7	98.5	89.0	84.3	81.9	81.6	81.6	81.6
22.5°	1413.5	1124.7	422.1	111.8	89.7	81.9	75.6	73.5	73.5	73.8	74.2
25°	1398.3	1057.8	289.9	96.4	83.1	74.6	68.4	66.0	66.8	67.6	67.9
27.5°	1379.1	978.2	189.8	83.5	74.2	67.3	61.7	60.1	61.7	63.2	63.9
30°	1359.9	890.6	128.5	72.4	64.3	59.1	55.8	55.3	57.6	60.9	61.4
32.5°	1347.4	800.8	97.0	64.9	56.6	52.0	50.6	51.4	54.6	58.3	59.1
35°	1346.3	713.3	82.7	59.1	51.4	47.3	46.5	48.8	52.5	55.3	56.1
37.5°	1363.5	631.4	75.0	54.6	47.3	43.2	42.1	46.2	49.4	52.5	53.2
40°	1398.8	557.9	69.8	50.6	43.9	39.2	38.4	41.7	45.0	48.4	49.4
42.5°	1442.7	489.2	63.9	46.5	40.2	34.8	34.0	36.6	39.9	44.6	45.5
45°	1480.6	425.3	57.6	42.1	36.2	30.0	29.6	32.5	35.0	39.5	40.2
47.5°	1512.7	372.2	51.7	37.3	31.0	26.6	26.2	27.7	29.1	33.2	34.0
50°	1495.8	327.2	45.9	30.6	25.2	22.8	22.5	22.5	24.3	28.4	29.1
52.5°	1454.0	299.0	40.2	25.5	20.8	19.6	18.4	18.9	20.8	22.5	22.8
55°	1420.5	285.8	35.5	22.5	17.3	16.3	15.1	14.7	15.1	14.5	13.7
56°	1412.3	284.4	34.3	21.7	16.6	15.1	13.7	12.9	12.5	11.0	10.7
57.5°	1408.6	284.4	32.5	20.3	15.5	13.7	11.8	10.3	8.9	7.7	7.7
60°	1405.7	286.2	30.3	17.7	13.2	11.0	8.5	6.3	5.2	5.2	5.2
62.5°	1399.4	285.4	27.7	14.7	11.5	8.5	5.2	4.0	3.8	4.0	4.4
65°	1329.0	265.1	24.3	11.8	8.9	5.8	3.0	3.0	3.4	4.0	4.4
67.5°	1070.8	201.0	19.9	9.3	6.3	4.4	2.5	2.5	3.4	4.0	4.4
70°	588.2	106.0	17.0	6.6	4.9	3.8	2.5	2.2	3.4	4.0	4.4
72.5°	143.5	44.2	15.5	5.2	4.4	3.4	2.2	2.2	3.4	4.0	4.4
75°	35.5	33.2	12.5	4.0	3.8	3.0	2.2	2.2	3.4	4.0	4.4
77.5°	16.6	43.9	8.5	3.8	3.4	2.5	2.2	2.2	3.4	4.0	4.0
80°	10.1	33.2	5.2	3.4	3.0	2.5	2.2	2.2	3.4	4.0	4.4
82.5°	5.8	9.6	3.8	3.4	3.0	2.2	2.2	2.2	3.4	4.0	4.4
85°	5.2	4.9	3.8	3.4	3.0	2.5	2.2	2.2	3.8	4.4	4.4
87.5°	4.0	3.8	3.4	3.0	3.0	2.5	2.2	2.2	3.4	4.0	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)