

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: McGRAW-EDISON

Report Number: P200569

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-01-LED-E1-AFL-8030-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 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: 4658 lumens
Efficiency: N/A
Efficacy: 69.5 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 - G0

Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

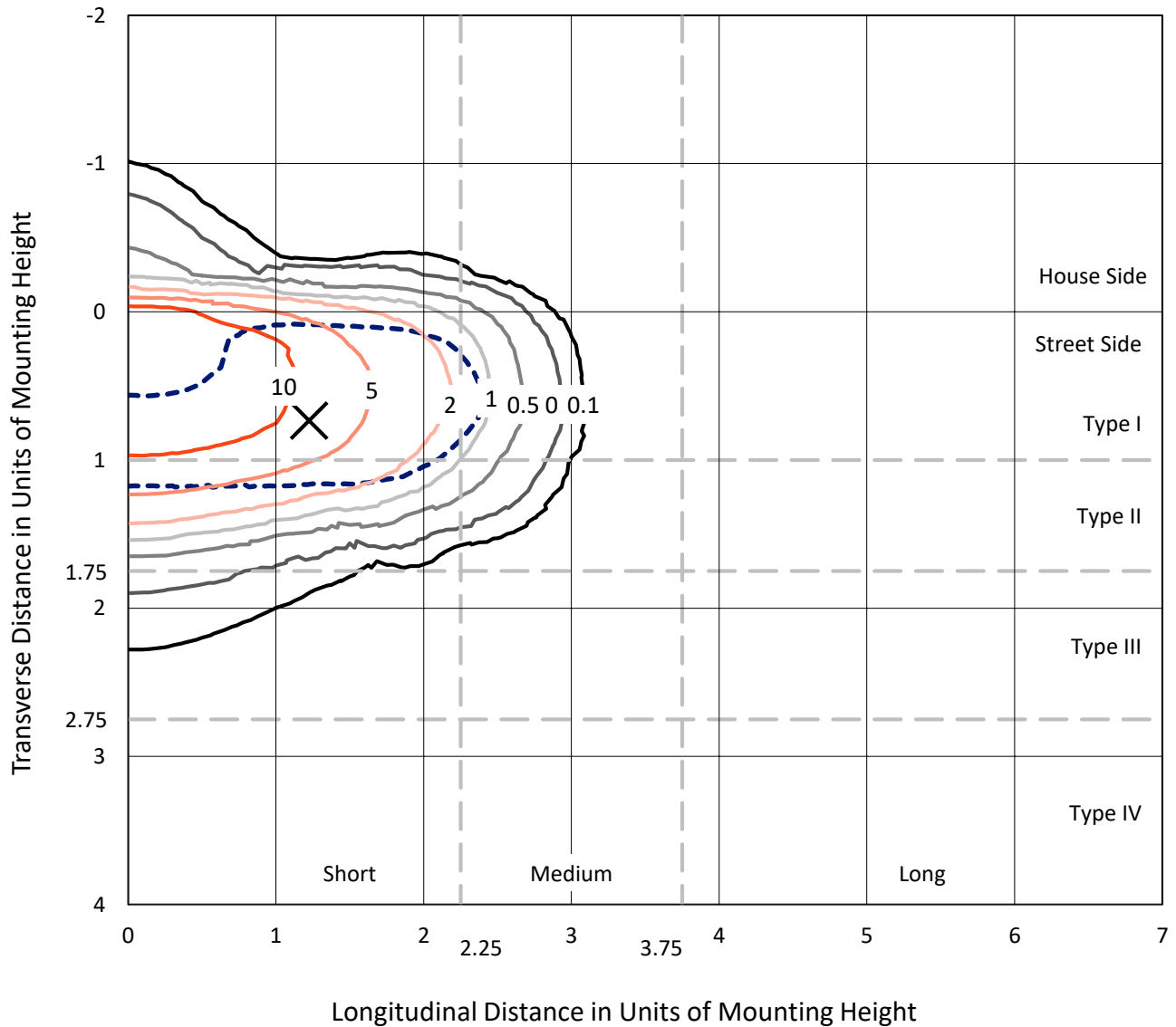


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

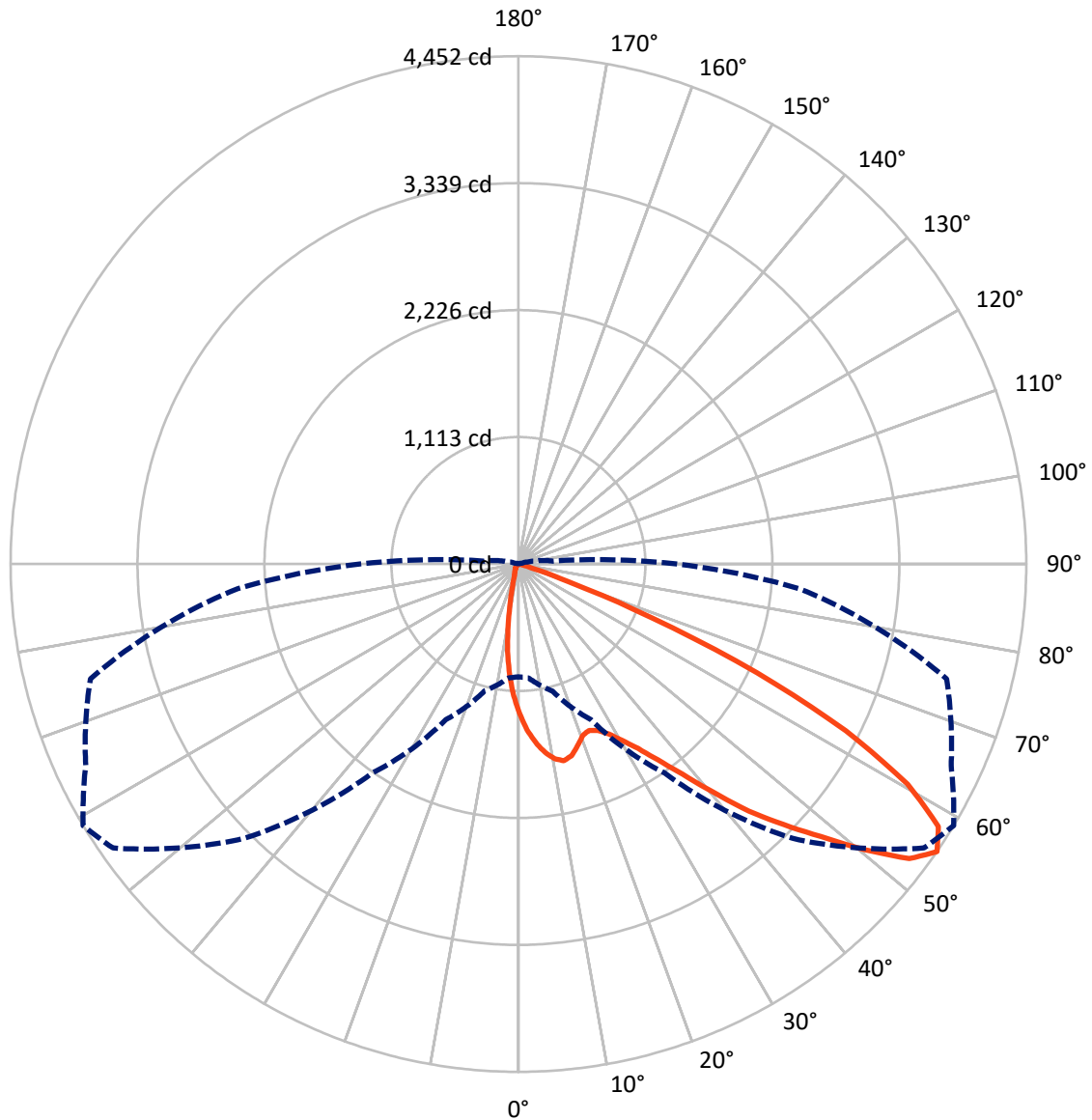


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	260.2	0.0	260.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4397.8	0.0	4397.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	4658.0	0.0	4658.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	2.4
10°-20°	263.0	5.6
20°-30°	447.5	9.6
30°-40°	769.5	16.5
40°-50°	1188.1	25.5
50°-60°	1194.4	25.6
60°-70°	612.5	13.1
70°-80°	66.4	1.4
80°-90°	6.9	0.1
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°	4658.0	100.0
0°-180°	4658.0	100.0



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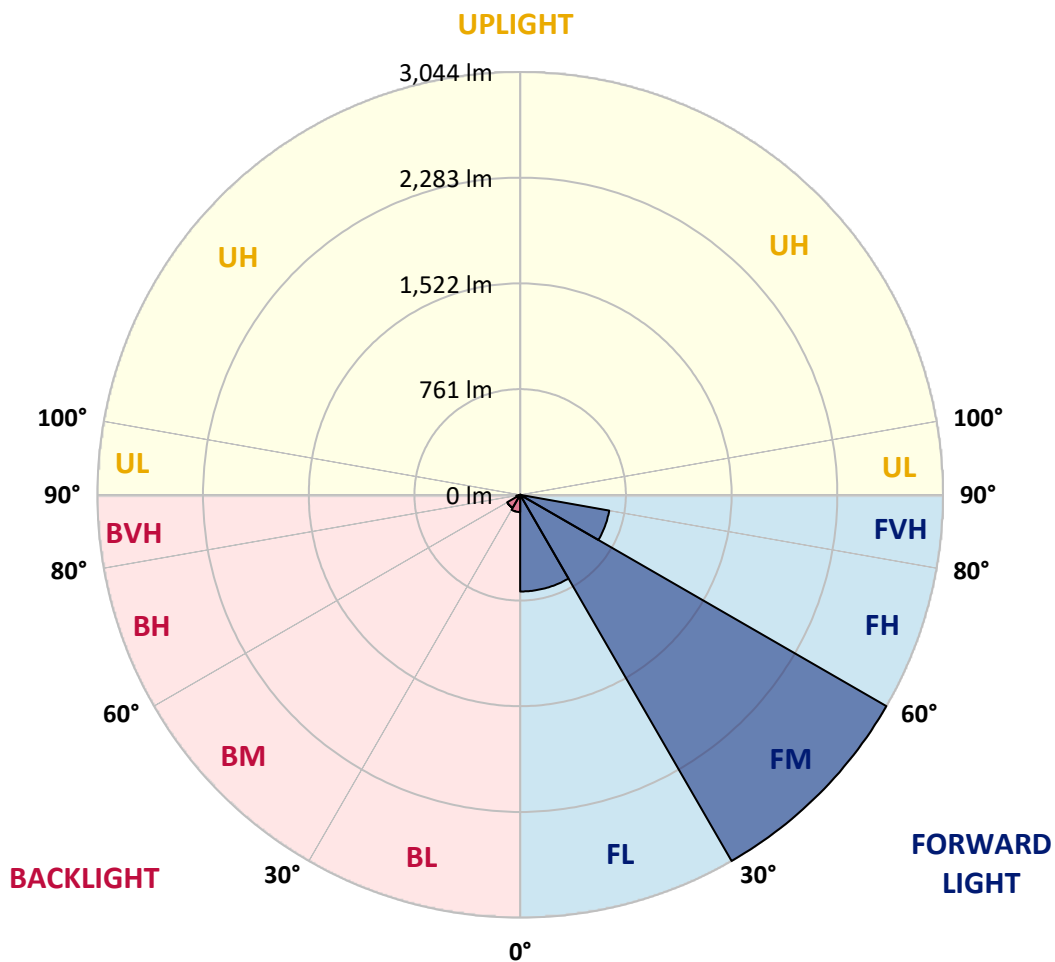
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.1	14.9			
FM (30°-60°)	3044.0	65.3			
FH (60°-80°)	651.0	14.0			G0/660
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	124.2	2.7	B1/500		
BM (30°-60°)	108.0	2.3	B0/220		
BH (60°-80°)	27.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1551.5	1535.0	1530.0	1526.7	1511.6	1492.6	1466.8	1454.7	1430.0	1390.1	1341.2
5°	1693.6	1690.6	1679.6	1673.5	1657.3	1630.4	1589.1	1569.3	1530.0	1462.9	1375.3
7.5°	1631.5	1650.4	1665.5	1690.8	1722.7	1721.6	1687.0	1666.4	1622.4	1533.9	1413.2
10°	1391.5	1406.9	1431.6	1489.1	1606.2	1709.5	1750.2	1735.4	1700.2	1599.0	1449.8
12.5°	1344.5	1342.8	1347.2	1364.0	1425.3	1572.6	1739.5	1769.4	1762.3	1658.7	1484.4
15°	1369.5	1367.6	1367.0	1372.8	1387.6	1449.8	1658.9	1745.0	1800.2	1713.9	1513.8
17.5°	1439.6	1431.3	1426.9	1422.3	1417.9	1433.3	1562.2	1676.5	1806.0	1762.3	1538.3
20°	1559.7	1546.0	1529.7	1503.4	1478.6	1470.9	1521.5	1606.2	1785.4	1799.1	1554.2
22.5°	1710.6	1693.0	1665.0	1616.9	1566.6	1537.4	1541.6	1583.9	1754.6	1839.3	1561.6
25°	1880.2	1857.7	1820.3	1753.5	1679.6	1627.9	1600.9	1615.8	1740.6	1886.3	1570.2
27.5°	2061.9	2036.9	1988.0	1897.0	1813.2	1743.3	1688.4	1686.4	1764.5	1947.8	1583.9
30°	2242.0	2238.1	2174.4	2078.1	1967.1	1882.2	1803.0	1792.8	1831.3	2033.1	1611.1
32.5°	2482.2	2453.4	2375.3	2276.3	2148.2	2046.3	1952.5	1928.9	1933.8	2132.3	1653.2
35°	2785.2	2753.5	2643.6	2507.0	2363.8	2243.4	2139.7	2107.6	2095.5	2294.8	1724.1
37.5°	2980.9	2980.3	2911.3	2772.2	2618.6	2485.8	2373.1	2335.4	2311.0	2491.0	1834.0
40°	2986.1	2999.0	3008.1	3006.7	2897.3	2775.0	2674.9	2628.5	2571.6	2753.3	1976.2
42.5°	2825.8	2859.1	2939.1	3074.9	3139.8	3091.1	3006.7	2961.1	2876.4	3033.9	2149.3
45°	2609.2	2632.3	2772.2	3022.4	3271.2	3404.5	3340.1	3258.5	3146.9	3326.7	2304.7
47.5°	2512.2	2516.3	2606.8	2881.4	3281.0	3661.2	3700.3	3567.5	3392.7	3562.5	2426.2
50°	2222.2	2229.6	2354.4	2637.0	3165.0	3782.4	4062.0	3936.1	3660.7	3744.2	2470.4
52.5°	1674.9	1685.3	1843.7	2235.4	2846.2	3730.8	4320.9	4290.4	3954.2	3833.0	2472.9
55°	988.2	1002.0	1153.2	1504.7	2238.7	3402.0	4340.2	4452.3	4186.0	3885.5	2469.0
57.5°	461.5	471.2	557.7	775.2	1392.3	2688.7	4050.5	4341.3	4313.8	3913.3	2496.2
60°	245.2	247.9	268.8	335.6	629.2	1704.8	3485.0	3920.2	4197.2	3951.8	2529.5
62.5°	187.5	188.3	187.2	195.2	264.4	756.8	2634.2	3222.8	3728.0	3922.9	2492.7
65°	162.5	163.8	156.1	154.2	169.6	269.9	1564.9	2297.2	2929.5	3533.4	2241.7
67.5°	145.7	146.2	136.9	128.9	131.7	146.0	617.4	1257.6	1939.1	2590.0	1624.9
70°	134.1	133.6	123.4	110.8	107.2	99.8	196.3	461.0	926.6	1313.4	755.7
72.5°	118.8	119.0	114.1	97.6	89.1	69.8	91.0	134.4	276.5	357.9	177.0
75°	105.3	103.9	97.9	87.4	73.4	45.9	45.1	59.9	85.2	84.7	38.2
77.5°	76.1	74.8	76.7	71.7	56.4	29.7	22.5	28.9	34.6	33.5	10.7
80°	55.8	55.0	49.5	59.7	49.8	20.3	14.0	15.4	17.9	15.1	3.3
82.5°	38.2	37.9	34.9	33.0	28.3	12.4	8.8	9.6	11.5	8.5	1.6
85°	6.0	6.9	25.3	20.1	16.8	5.5	6.0	6.6	7.7	4.7	0.5
87.5°	0.0	0.0	11.8	10.4	3.3	2.2	3.6	3.8	3.8	2.5	0.0
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°	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2	1311.2
2.5°	1316.2	1288.7	1237.8	1185.3	1136.7	1078.7	1038.8	1008.8	974.2	964.9	985.2
5°	1325.2	1273.3	1163.9	1044.8	933.0	809.0	714.2	639.1	571.2	548.1	569.0
7.5°	1339.5	1262.3	1083.9	887.9	693.3	499.7	367.2	280.1	224.6	208.1	216.9
10°	1353.8	1246.3	991.2	702.1	436.0	243.3	158.3	126.4	114.6	112.2	113.5
12.5°	1365.6	1224.9	878.3	499.2	233.1	130.3	103.6	98.4	96.8	96.8	97.3
15°	1372.8	1192.5	744.4	317.5	134.1	98.4	90.4	88.8	88.8	89.1	89.6
17.5°	1372.0	1151.2	597.9	192.1	100.3	87.1	82.5	81.1	80.8	81.4	81.6
20°	1361.8	1097.3	450.8	126.7	87.4	79.4	74.8	72.3	72.0	72.6	73.1
22.5°	1342.5	1030.8	322.4	97.6	78.9	72.0	66.2	64.0	64.0	64.6	65.1
25°	1319.2	949.5	220.5	82.7	71.2	64.0	58.6	56.6	57.2	58.6	58.8
27.5°	1290.0	857.9	149.8	70.9	61.8	56.1	52.0	50.6	52.0	53.9	54.4
30°	1265.0	762.5	106.9	61.3	52.5	48.4	45.9	45.9	47.8	51.4	52.2
32.5°	1245.8	670.2	82.5	54.2	45.6	42.1	40.7	42.1	45.1	48.7	49.5
35°	1243.3	594.0	69.8	48.4	40.7	37.1	36.6	39.0	42.1	44.8	45.4
37.5°	1262.3	523.7	62.9	43.7	36.3	33.0	32.4	35.5	38.5	41.8	42.6
40°	1298.3	468.4	58.0	39.3	32.7	29.1	28.0	30.2	34.4	38.8	39.9
42.5°	1345.0	422.8	52.5	34.9	29.1	24.2	22.8	25.3	29.7	34.4	35.7
45°	1389.6	383.5	46.5	30.0	24.5	18.7	18.1	21.4	23.6	28.3	29.4
47.5°	1414.0	348.8	41.2	24.5	19.0	15.1	15.1	15.9	18.1	23.6	24.7
50°	1405.8	321.1	35.7	18.1	13.2	11.5	11.5	11.3	14.6	19.0	19.8
52.5°	1389.3	305.1	30.8	14.0	9.1	8.2	7.4	8.2	10.2	12.1	12.4
55°	1386.8	302.4	25.8	11.3	6.3	5.5	4.1	4.1	4.1	3.8	3.3
57.5°	1406.0	306.8	21.7	9.1	4.7	3.6	2.2	0.0	0.0	0.0	0.0
60°	1425.8	311.4	18.7	6.3	3.3	1.9	0.3	0.0	0.0	0.0	0.0
62.5°	1392.9	301.0	15.7	3.8	2.5	0.8	0.0	0.0	0.0	0.0	0.0
65°	1223.5	256.2	12.4	2.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	870.3	171.5	8.2	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	397.2	71.7	5.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	84.9	22.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.3	16.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.5	25.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.3	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)