

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: P199927

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199927
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-7030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 5033.6 lumens
Efficiency: N/A
Efficacy: 85.3 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

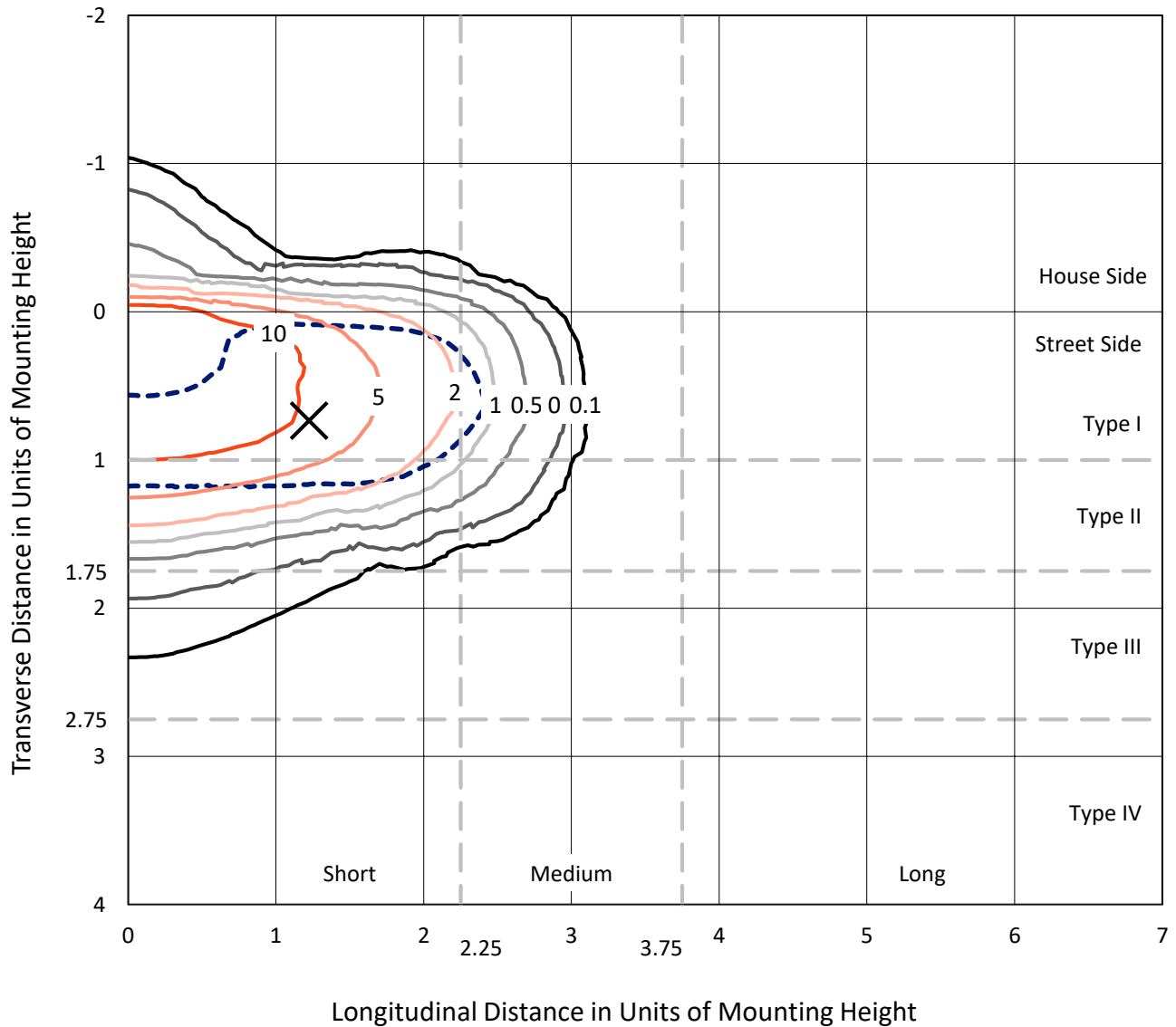
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

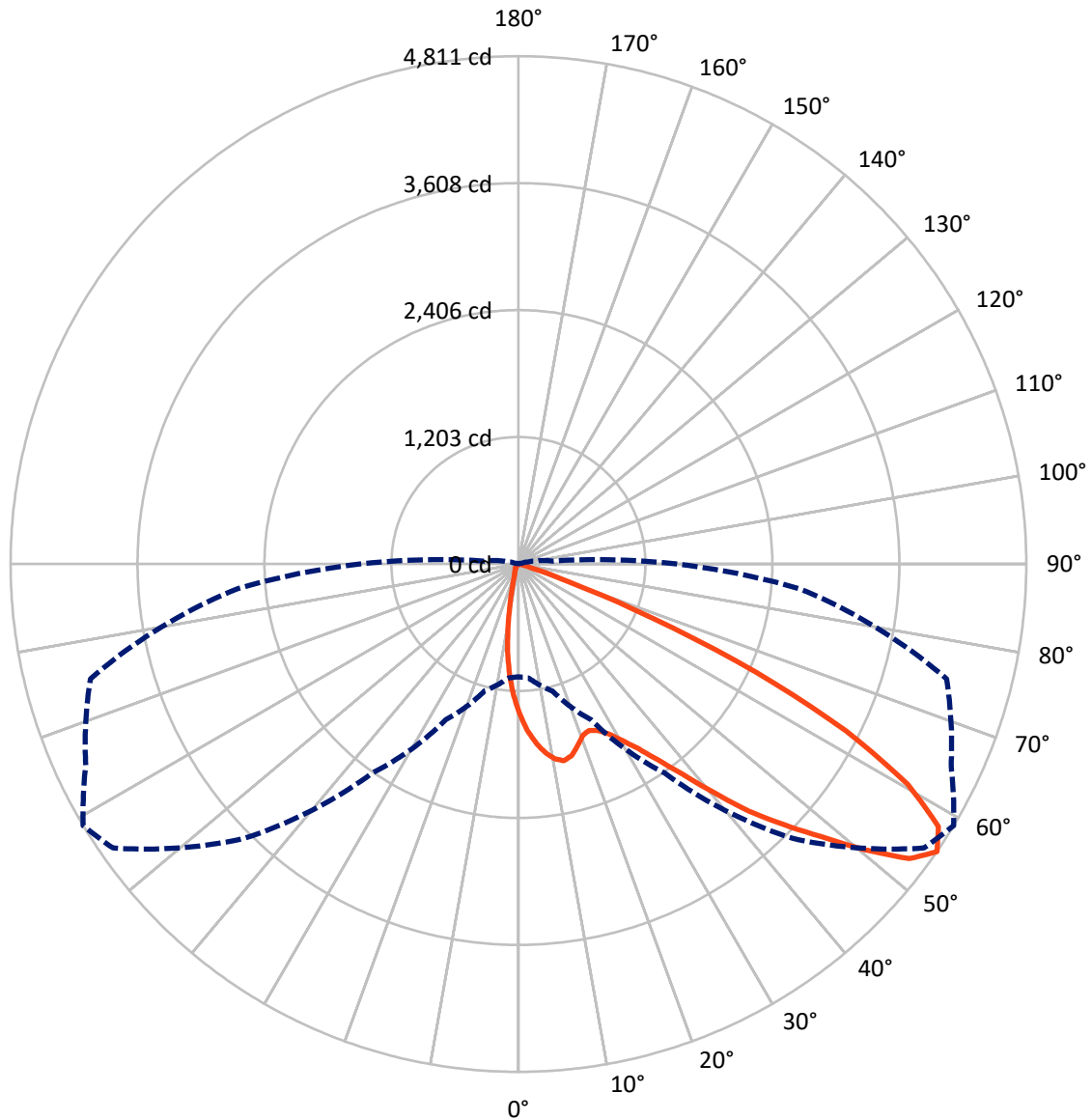
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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	281.2	0.0	281.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	4752.4	0.0	4752.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	5033.6	0.0	5033.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	2.4
10°-20°	284.2	5.6
20°-30°	483.5	9.6
30°-40°	831.6	16.5
40°-50°	1283.8	25.5
50°-60°	1290.7	25.6
60°-70°	661.9	13.1
70°-80°	71.7	1.4
80°-90°	7.5	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°	5033.6	100.0
0°-180°	5033.6	100.0

Coefficient of Utilization



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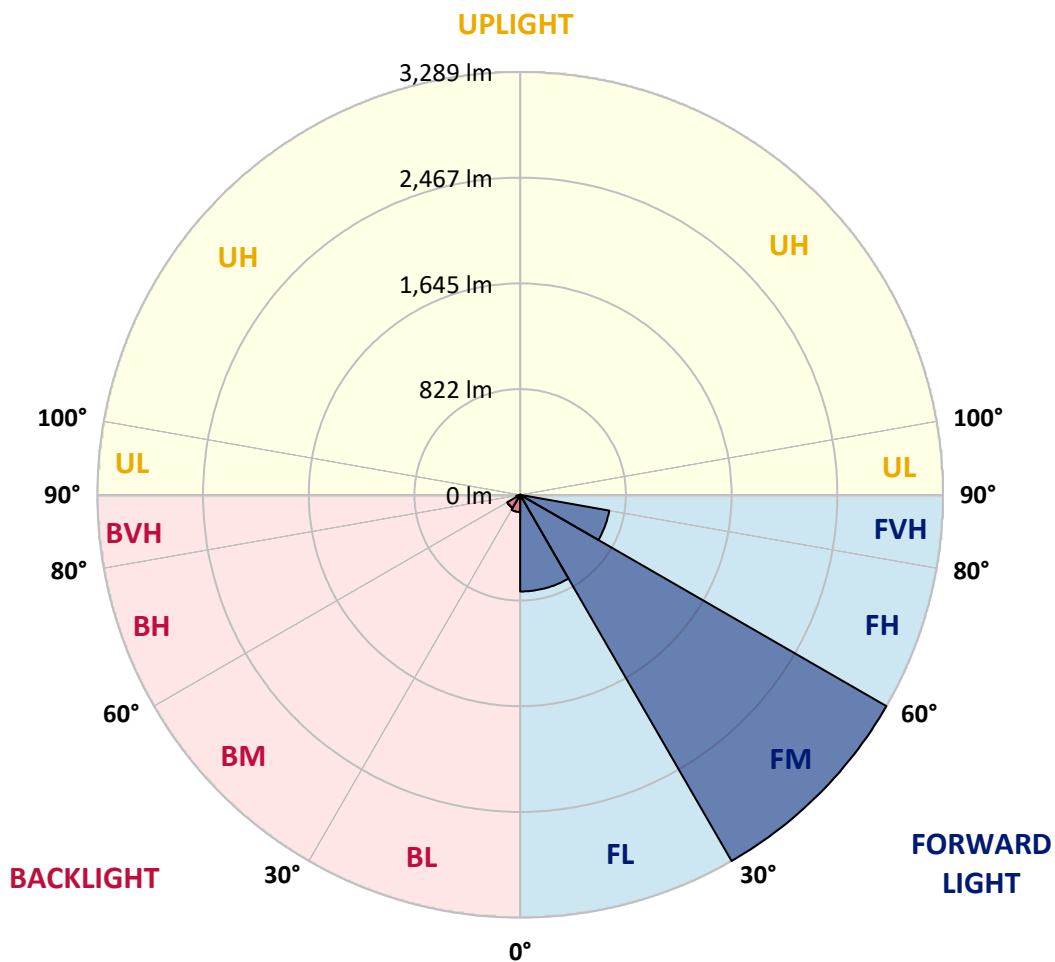
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.2	14.9			
FM	(30°-60°)	3289.4	65.3			
FH	(60°-80°)	703.5	14.0			G1/1800
FVH	(80°-90°)	7.3	0.1			G0/10
BL	(0°-30°)	134.2	2.7	B1/500		
BM	(30°-60°)	116.7	2.3	B0/220		
BH	(60°-80°)	30.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	59°	65°	75°	85°
0°	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1676.6	1658.8	1653.4	1649.9	1633.5	1613.0	1585.1	1572.0	1545.3	1502.2	1449.4
5°	1830.1	1826.9	1815.1	1808.5	1790.9	1761.8	1717.2	1695.8	1653.4	1580.9	1486.2
7.5°	1763.0	1783.5	1799.8	1827.2	1861.7	1860.4	1823.0	1800.7	1753.2	1657.6	1527.1
10°	1503.6	1520.4	1547.0	1609.2	1735.7	1847.3	1891.3	1875.3	1837.3	1727.9	1566.7
12.5°	1452.9	1451.1	1455.9	1474.0	1540.2	1699.4	1879.7	1912.1	1904.4	1792.4	1604.0
15°	1479.9	1477.8	1477.1	1483.5	1499.5	1566.7	1792.7	1885.7	1945.4	1852.2	1635.8
17.5°	1555.7	1546.8	1541.9	1537.0	1532.2	1548.9	1688.2	1811.7	1951.6	1904.4	1662.3
20°	1685.5	1670.6	1653.1	1624.5	1597.8	1589.5	1644.2	1735.7	1929.3	1944.2	1679.6
22.5°	1848.5	1829.5	1799.3	1747.3	1692.9	1661.4	1665.8	1711.6	1896.0	1987.5	1687.5
25°	2031.7	2007.4	1967.1	1894.9	1815.1	1759.2	1730.0	1746.1	1880.9	2038.3	1696.8
27.5°	2228.3	2201.1	2148.2	2049.9	1959.3	1883.8	1824.5	1822.5	1906.8	2104.9	1711.6
30°	2422.8	2418.6	2349.6	2245.8	2125.7	2033.9	1948.3	1937.3	1978.9	2196.9	1741.0
32.5°	2682.5	2651.1	2566.8	2459.9	2321.4	2211.3	2109.9	2084.4	2089.8	2304.3	1786.5
35°	3009.8	2975.5	2856.7	2709.1	2554.4	2424.3	2312.3	2277.5	2264.4	2479.7	1863.1
37.5°	3221.2	3220.6	3146.1	2995.8	2829.7	2686.2	2564.5	2523.8	2497.3	2691.9	1982.0
40°	3226.9	3240.8	3250.7	3249.2	3131.0	2998.7	2890.6	2840.4	2778.9	2975.2	2135.5
42.5°	3053.7	3089.7	3176.0	3322.8	3392.9	3340.4	3249.2	3199.8	3108.3	3278.6	2322.7
45°	2819.7	2844.6	2995.8	3266.1	3534.9	3679.0	3609.5	3521.2	3400.5	3594.9	2490.4
47.5°	2714.8	2719.3	2816.9	3113.7	3545.6	3956.4	3998.6	3855.1	3666.2	3849.7	2621.7
50°	2401.4	2409.3	2544.2	2849.6	3420.3	4087.4	4389.5	4253.5	3955.8	4046.1	2669.6
52.5°	1809.9	1821.3	1992.4	2415.6	3075.6	4031.5	4669.3	4636.4	4273.1	4142.1	2672.3
55°	1067.9	1082.8	1246.1	1626.1	2419.2	3676.3	4690.2	4811.3	4523.5	4198.9	2668.1
57.5°	498.8	509.1	602.7	837.7	1504.6	2905.4	4377.0	4691.4	4661.6	4228.8	2697.5
60°	265.0	267.9	290.5	362.7	679.9	1842.3	3766.0	4236.2	4535.7	4270.4	2733.4
62.5°	202.5	203.4	202.2	210.9	285.7	817.8	2846.6	3482.6	4028.6	4239.3	2693.7
65°	175.6	177.0	168.7	166.6	183.2	291.7	1691.2	2482.5	3165.7	3818.3	2422.5
67.5°	157.5	158.0	147.9	139.3	142.2	157.8	667.1	1358.9	2095.4	2798.7	1755.9
70°	145.0	144.3	133.4	119.7	115.9	107.8	212.1	498.1	1001.4	1419.3	816.6
72.5°	128.4	128.6	123.3	105.4	96.2	75.5	98.4	145.2	298.9	386.8	191.3
75°	113.7	112.3	105.8	94.5	79.3	49.6	48.7	64.8	92.1	91.4	41.3
77.5°	82.3	80.9	82.9	77.6	60.8	32.1	24.4	31.1	37.4	36.3	11.6
80°	60.3	59.4	53.4	64.5	53.7	22.0	15.2	16.6	19.3	16.4	3.6
82.5°	41.3	41.0	37.7	35.6	30.6	13.3	9.5	10.4	12.4	9.2	1.7
85°	6.5	7.4	27.4	21.7	18.1	5.9	6.5	7.1	8.3	5.0	0.5
87.5°	0.0	0.0	12.8	11.3	3.6	2.4	3.9	4.2	4.2	2.6	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°	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1422.2	1392.6	1337.7	1280.8	1228.3	1165.6	1122.5	1090.2	1052.7	1042.7	1064.6
5°	1432.1	1375.9	1257.7	1129.0	1008.3	874.2	771.7	690.6	617.4	592.3	614.9
7.5°	1447.5	1364.1	1171.3	959.6	749.2	540.1	396.8	302.6	242.7	224.8	234.4
10°	1463.0	1346.8	1071.2	758.7	471.1	262.9	171.1	136.7	123.9	121.2	122.7
12.5°	1475.8	1323.6	949.0	539.4	252.0	140.8	112.0	106.3	104.6	104.6	105.1
15°	1483.5	1288.6	804.3	343.1	145.0	106.3	97.7	95.9	95.9	96.2	96.8
17.5°	1482.5	1244.0	646.0	207.6	108.3	94.2	89.1	87.6	87.3	88.0	88.2
20°	1471.6	1185.8	487.2	136.9	94.5	85.9	80.9	78.1	77.8	78.4	79.0
22.5°	1450.8	1113.9	348.4	105.4	85.2	77.8	71.6	69.2	69.2	69.8	70.4
25°	1425.5	1026.1	238.1	89.4	76.9	69.2	63.3	61.1	61.8	63.3	63.6
27.5°	1394.0	927.1	161.9	76.6	66.8	60.6	56.2	54.6	56.2	58.2	58.8
30°	1367.1	824.1	115.6	66.2	56.7	52.3	49.6	49.6	51.7	55.5	56.5
32.5°	1346.2	724.2	89.1	58.6	49.2	45.5	43.9	45.5	48.7	52.6	53.4
35°	1343.6	641.9	75.5	52.3	43.9	40.1	39.6	42.2	45.5	48.4	49.0
37.5°	1364.1	565.9	68.1	47.2	39.3	35.6	35.1	38.4	41.6	45.2	46.0
40°	1403.0	506.2	62.8	42.5	35.4	31.4	30.3	32.7	37.1	41.8	43.0
42.5°	1453.4	456.8	56.7	37.7	31.4	26.1	24.7	27.4	32.1	37.1	38.6
45°	1501.5	414.4	50.1	32.3	26.4	20.2	19.5	23.2	25.5	30.6	31.8
47.5°	1528.0	377.0	44.6	26.4	20.5	16.4	16.4	17.3	19.5	25.5	26.8
50°	1519.1	347.0	38.6	19.5	14.3	12.4	12.4	12.1	15.8	20.5	21.5
52.5°	1501.3	329.8	33.4	15.2	9.9	9.0	7.9	9.0	11.0	13.1	13.3
55°	1498.6	326.8	28.0	12.1	6.9	5.9	4.5	4.5	4.5	4.2	3.6
57.5°	1519.5	331.5	23.5	9.9	5.0	3.9	2.4	0.0	0.0	0.0	0.0
60°	1540.8	336.5	20.2	6.9	3.6	2.0	0.3	0.0	0.0	0.0	0.0
62.5°	1505.1	325.3	16.9	4.2	2.6	0.9	0.0	0.0	0.0	0.0	0.0
65°	1322.1	276.9	13.3	2.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	940.5	185.4	9.0	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	429.3	77.6	5.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	91.8	24.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.7	17.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	5.9	27.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.6	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.5	2.9	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)