

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: P269933

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5666.1 lumens
Efficiency: N/A
Efficacy: 96.0 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

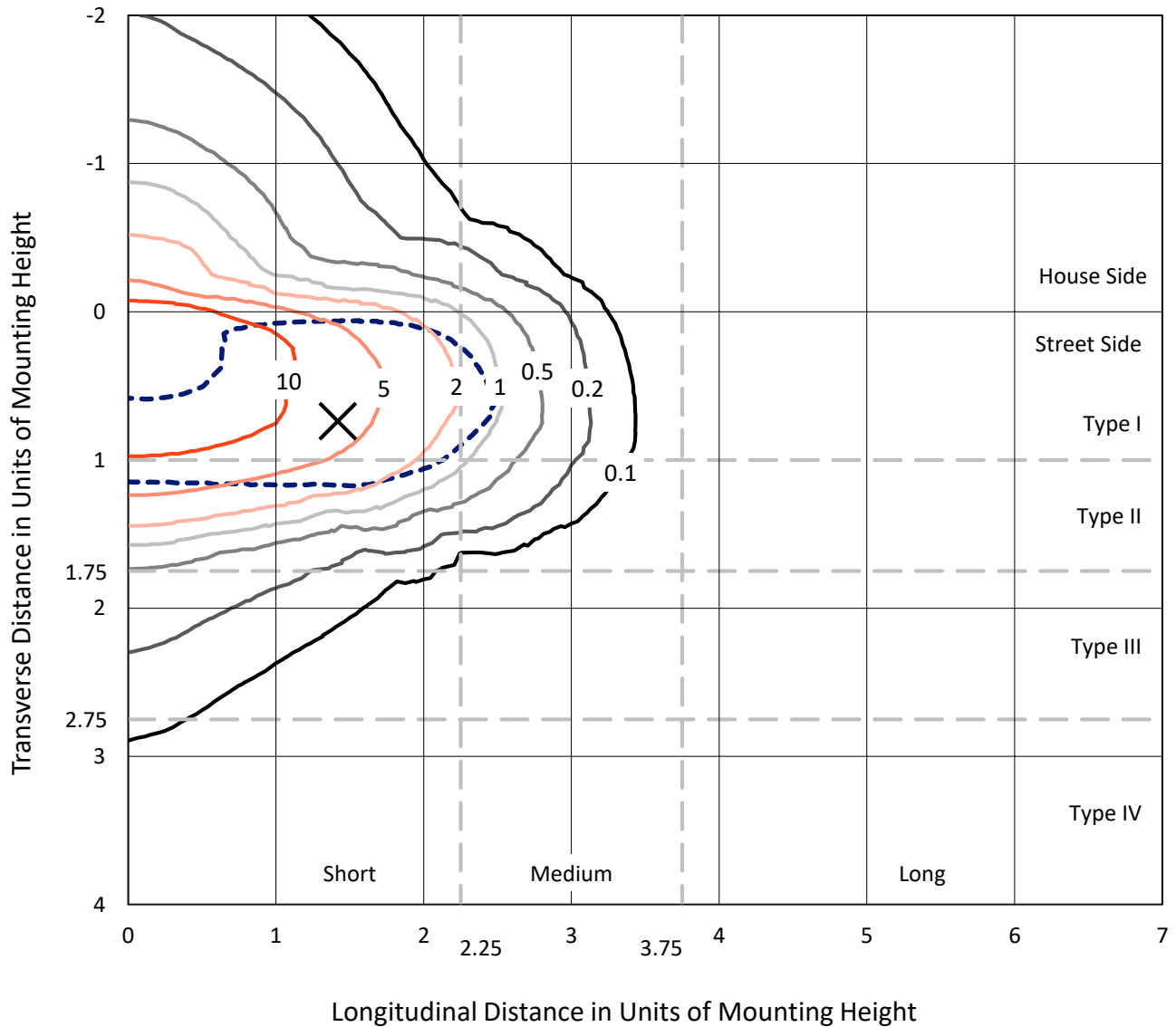
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

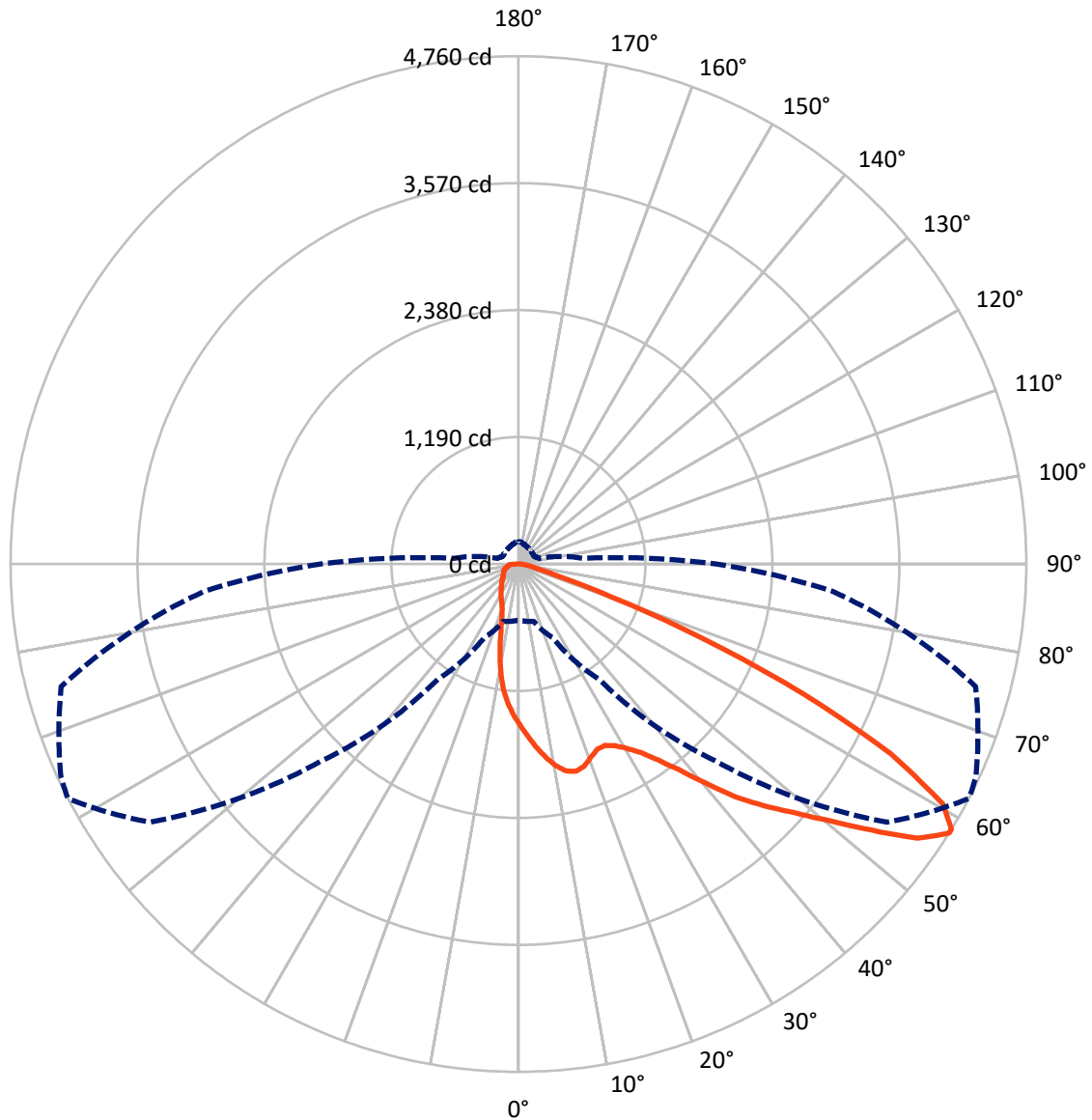
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	864.1	0.0	864.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4802.0	0.0	4802.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	5666.1	0.0	5666.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	2.4
10°-20°	344.1	6.1
20°-30°	556.2	9.8
30°-40°	883.0	15.6
40°-50°	1292.0	22.8
50°-60°	1351.3	23.8
60°-70°	798.4	14.1
70°-80°	224.9	4.0
80°-90°	81.6	1.4
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°	5666.1	100.0
0°-180°	5666.1	100.0



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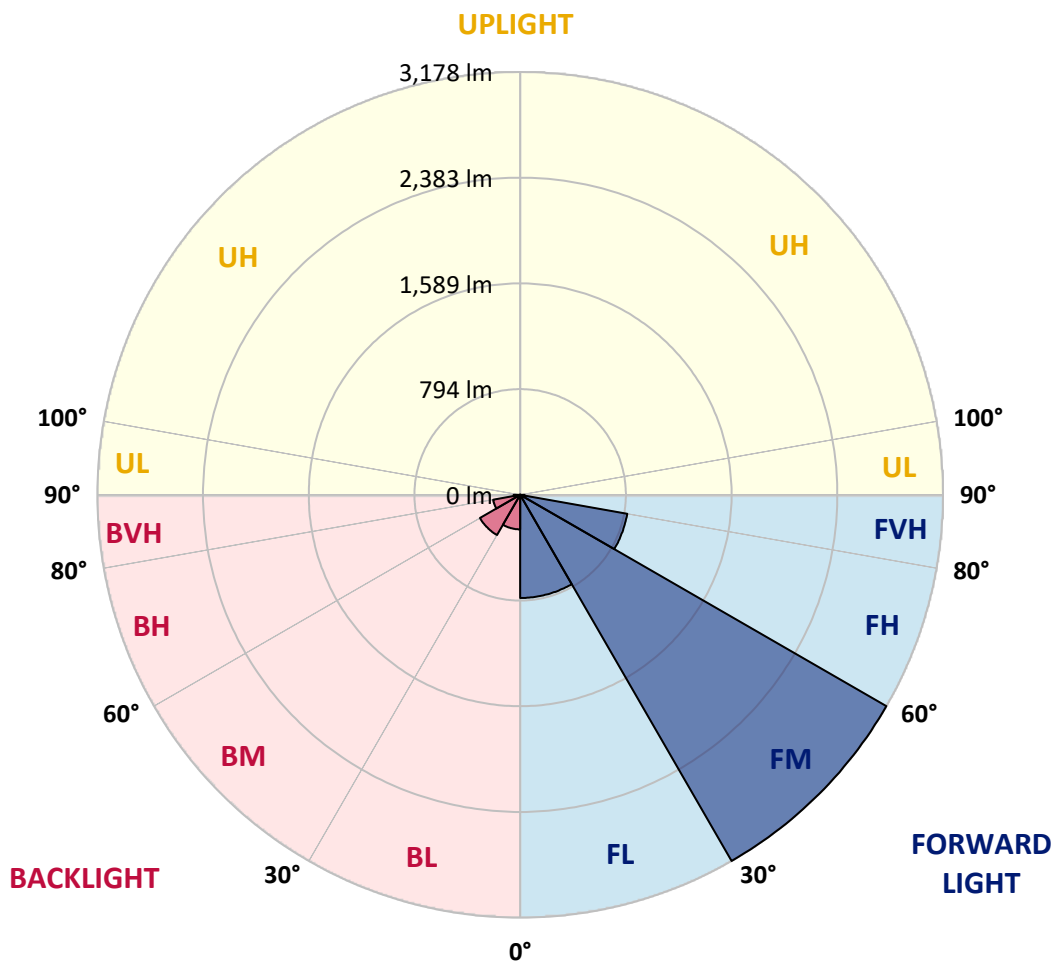
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.2	13.7			
FM	(30°-60°)	3177.5	56.1			
FH	(60°-80°)	817.1	14.4			G1/1800
FVH	(80°-90°)	32.2	0.6			G1/100
BL	(0°-30°)	259.7	4.6	B1/500		
BM	(30°-60°)	348.8	6.2	B1/1000		
BH	(60°-80°)	206.2	3.6	B1/500		G1/500
BVH	(80°-90°)	49.4	0.9			G1/100
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°	62.5°	65°	75°	85°
0°	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1719.8	1706.1	1697.2	1689.4	1679.3	1657.7	1628.5	1610.2	1600.9	1569.1	1531.5
5°	1888.4	1876.2	1867.1	1856.7	1838.7	1804.8	1757.8	1720.4	1702.0	1638.5	1563.2
7.5°	1849.0	1854.1	1869.8	1897.3	1920.8	1916.3	1874.4	1826.9	1802.5	1714.2	1600.2
10°	1611.0	1619.9	1647.0	1711.4	1815.4	1922.2	1954.6	1921.8	1897.3	1789.2	1638.0
12.5°	1563.2	1563.1	1565.0	1582.2	1644.1	1794.4	1957.3	1990.5	1975.7	1860.7	1676.6
15°	1582.8	1583.3	1581.6	1588.8	1608.1	1667.6	1875.8	2016.9	2027.3	1932.8	1716.8
17.5°	1633.9	1632.6	1626.6	1626.6	1633.4	1656.7	1779.6	1992.4	2040.3	1996.6	1751.9
20°	1719.8	1713.7	1697.4	1682.5	1675.0	1687.6	1740.1	1935.7	2017.7	2052.3	1781.0
22.5°	1823.9	1819.1	1792.7	1760.7	1734.7	1734.5	1760.4	1886.4	1978.3	2104.9	1805.6
25°	1958.3	1950.7	1911.5	1860.2	1814.8	1797.5	1804.8	1883.9	1957.0	2162.0	1827.4
27.5°	2116.3	2102.3	2055.9	1981.9	1915.1	1880.2	1869.8	1927.5	1976.5	2232.6	1857.9
30°	2307.9	2291.7	2232.2	2135.8	2041.7	1984.3	1962.2	2004.6	2041.0	2318.9	1906.7
32.5°	2525.9	2502.4	2433.6	2327.4	2203.6	2116.0	2080.0	2106.4	2135.6	2422.6	1967.7
35°	2827.1	2799.1	2699.5	2553.2	2413.2	2293.0	2235.3	2254.6	2282.9	2577.3	2056.0
37.5°	3032.6	3020.0	2953.8	2816.1	2664.2	2525.7	2436.6	2447.7	2463.7	2770.8	2169.1
40°	3030.7	3035.8	3037.1	3038.4	2934.9	2802.4	2706.6	2694.7	2691.6	2983.2	2297.8
42.5°	2878.9	2899.6	2966.9	3103.3	3166.3	3105.4	3017.6	2983.7	2966.9	3233.4	2434.0
45°	2646.4	2657.7	2783.7	3049.9	3284.7	3405.6	3339.1	3232.5	3202.0	3463.4	2547.2
47.5°	2526.8	2539.0	2618.2	2908.5	3283.3	3648.0	3686.6	3483.2	3428.8	3663.6	2644.9
50°	2241.5	2267.1	2366.9	2662.4	3163.7	3759.6	4049.6	3782.0	3669.4	3858.4	2742.9
52.5°	1717.6	1757.3	1869.1	2258.0	2859.7	3704.4	4340.3	4144.4	3985.4	4060.1	2826.8
55°	1083.5	1112.9	1206.9	1594.8	2287.7	3417.1	4450.5	4536.4	4394.9	4251.0	2899.6
57.5°	589.1	602.3	637.3	880.5	1488.0	2781.8	4289.8	4759.4	4700.7	4413.4	2954.6
58°	527.2	536.0	557.8	763.1	1319.6	2608.0	4218.5	4760.2	4730.8	4437.1	2958.9
60°	391.1	386.6	367.1	435.5	734.5	1801.8	3788.0	4569.7	4655.8	4466.2	2938.1
62.5°	343.6	332.7	292.9	288.4	357.3	830.0	2898.4	3914.4	4118.0	4300.1	2811.7
65°	322.9	311.2	259.9	243.4	257.8	351.1	1707.3	2935.8	3191.0	3797.0	2488.2
67.5°	307.4	292.2	238.8	216.1	217.2	232.1	684.4	1849.0	2136.3	2882.9	1935.5
70°	292.4	275.9	221.0	194.8	188.6	183.6	272.1	925.6	1186.2	1821.0	1234.0
72.5°	276.4	260.1	205.2	178.0	165.9	149.2	177.7	378.5	528.8	861.6	559.7
75°	253.2	238.5	189.5	163.0	146.0	123.5	134.1	197.6	237.2	343.2	269.8
77.5°	224.7	212.7	171.8	150.7	129.4	100.3	103.2	137.1	152.2	196.4	160.3
80°	161.4	165.6	152.9	135.6	115.3	81.3	79.2	100.0	108.1	126.2	104.4
82.5°	113.4	115.8	126.5	110.8	95.2	64.0	58.4	70.4	75.3	83.0	56.4
85°	78.2	75.5	86.6	77.2	68.8	42.7	40.1	47.8	50.8	51.6	29.0
87.5°	46.9	46.9	50.1	41.3	37.1	22.2	21.6	27.2	29.0	27.8	16.0
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°	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1	1505.1
2.5°	1509.2	1490.2	1449.9	1417.5	1376.7	1334.3	1310.5	1285.3	1267.9	1255.3	1275.4
5°	1520.6	1481.8	1398.7	1319.6	1232.5	1141.7	1072.8	1008.7	964.2	936.6	962.7
7.5°	1538.6	1479.1	1346.6	1211.5	1055.0	904.0	768.9	684.4	635.0	610.8	625.8
10°	1559.5	1474.9	1285.6	1065.1	841.1	650.7	549.9	515.7	504.6	499.9	502.2
12.5°	1576.9	1465.9	1210.6	888.0	631.6	513.9	484.7	483.9	486.4	486.9	487.7
15°	1589.1	1452.5	1099.3	703.4	505.0	468.2	466.7	471.5	476.0	477.9	478.9
17.5°	1597.4	1425.0	973.7	556.1	452.4	446.1	449.8	456.0	460.8	462.1	463.2
20°	1596.6	1384.7	823.9	463.7	424.0	424.0	430.4	435.1	435.5	433.8	434.6
22.5°	1588.4	1329.5	678.8	414.6	398.6	403.2	409.5	405.0	386.4	374.1	374.9
25°	1574.5	1263.6	554.4	383.3	375.1	383.1	381.3	347.1	320.4	308.5	308.5
27.5°	1562.2	1185.8	458.9	356.2	351.6	361.6	328.4	297.5	286.3	280.7	278.8
30°	1553.3	1101.6	395.2	330.0	329.5	322.3	284.9	276.4	274.5	270.0	268.5
32.5°	1555.5	1016.5	354.3	307.1	308.9	275.9	264.1	266.0	264.5	259.6	257.5
35°	1573.1	935.8	327.6	286.3	280.7	249.2	251.9	255.4	254.8	248.1	246.0
37.5°	1604.6	859.0	310.1	269.0	245.0	235.9	240.1	245.4	244.1	239.6	238.1
40°	1637.7	787.0	295.6	255.4	223.9	226.8	230.5	233.5	234.7	236.2	235.0
42.5°	1669.9	711.8	278.0	241.5	215.1	218.3	219.8	222.8	230.0	235.0	234.7
45°	1689.3	641.1	259.9	221.7	208.0	209.9	208.9	214.8	223.6	231.9	232.1
47.5°	1710.6	586.1	245.4	203.6	201.4	202.7	199.6	205.4	213.4	223.6	224.7
50°	1736.5	553.4	234.0	189.2	192.3	192.3	191.6	196.9	208.0	219.8	222.1
52.5°	1765.8	547.0	224.3	178.8	183.3	183.1	183.9	191.9	204.2	215.7	217.5
55°	1801.6	564.3	213.9	171.0	174.5	175.6	178.3	187.2	197.6	210.8	211.6
57.5°	1843.1	599.4	205.7	164.8	166.5	170.0	174.2	182.4	193.8	208.0	208.9
58°	1850.1	607.0	204.4	164.4	164.8	168.9	173.7	181.6	192.9	208.6	209.5
60°	1850.2	631.8	201.4	162.0	158.7	165.4	170.8	178.8	191.6	210.6	212.4
62.5°	1784.8	631.6	199.3	158.6	152.4	160.6	166.7	176.1	190.3	215.1	218.7
65°	1571.6	573.8	189.2	153.2	147.3	156.3	163.3	174.2	193.9	234.7	237.2
67.5°	1229.2	470.4	170.1	145.6	140.7	152.2	161.2	173.9	197.9	239.3	240.9
70°	812.6	352.0	149.4	137.1	133.7	147.1	162.2	183.1	193.4	229.7	225.5
72.5°	421.8	247.0	132.6	126.5	125.7	142.6	177.7	181.9	189.0	216.1	210.8
75°	221.4	171.5	117.9	114.8	116.2	141.5	209.8	177.1	183.1	206.8	216.9
77.5°	135.6	138.5	105.5	104.1	106.7	138.2	209.5	171.0	174.5	190.3	201.4
80°	90.6	112.3	95.8	96.1	97.9	126.5	188.1	161.4	164.1	179.8	191.2
82.5°	57.3	66.5	87.0	91.4	89.1	104.4	159.8	147.1	150.7	205.7	217.5
85°	29.0	41.6	75.5	88.0	80.3	73.1	129.6	128.8	130.8	148.3	155.0
87.5°	13.4	22.9	59.0	76.8	60.5	45.6	94.2	95.5	102.9	105.5	105.5
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)