

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: P200602

Luminaire Tested: **GPC-AF-02-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL2-8030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10894 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

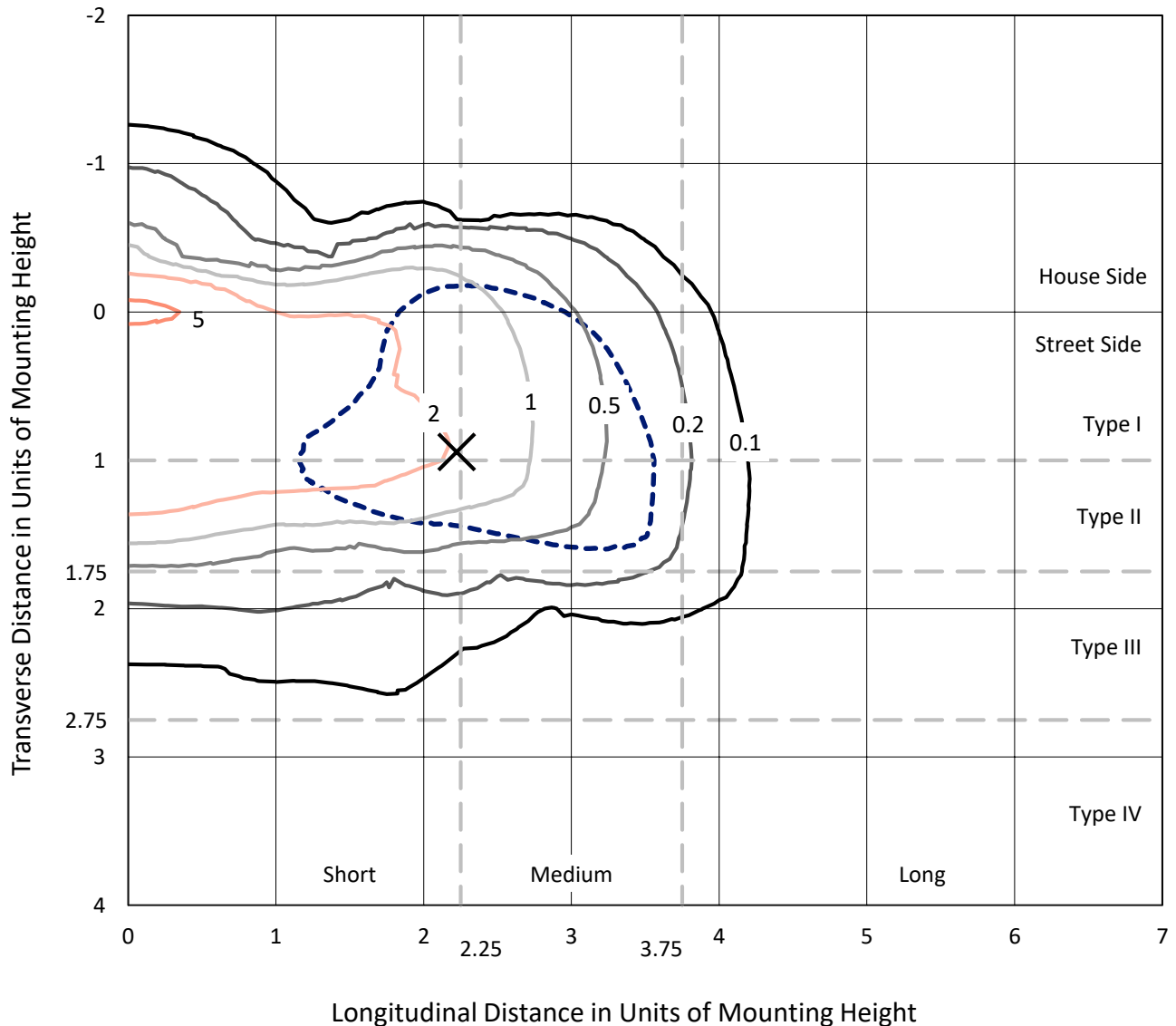
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

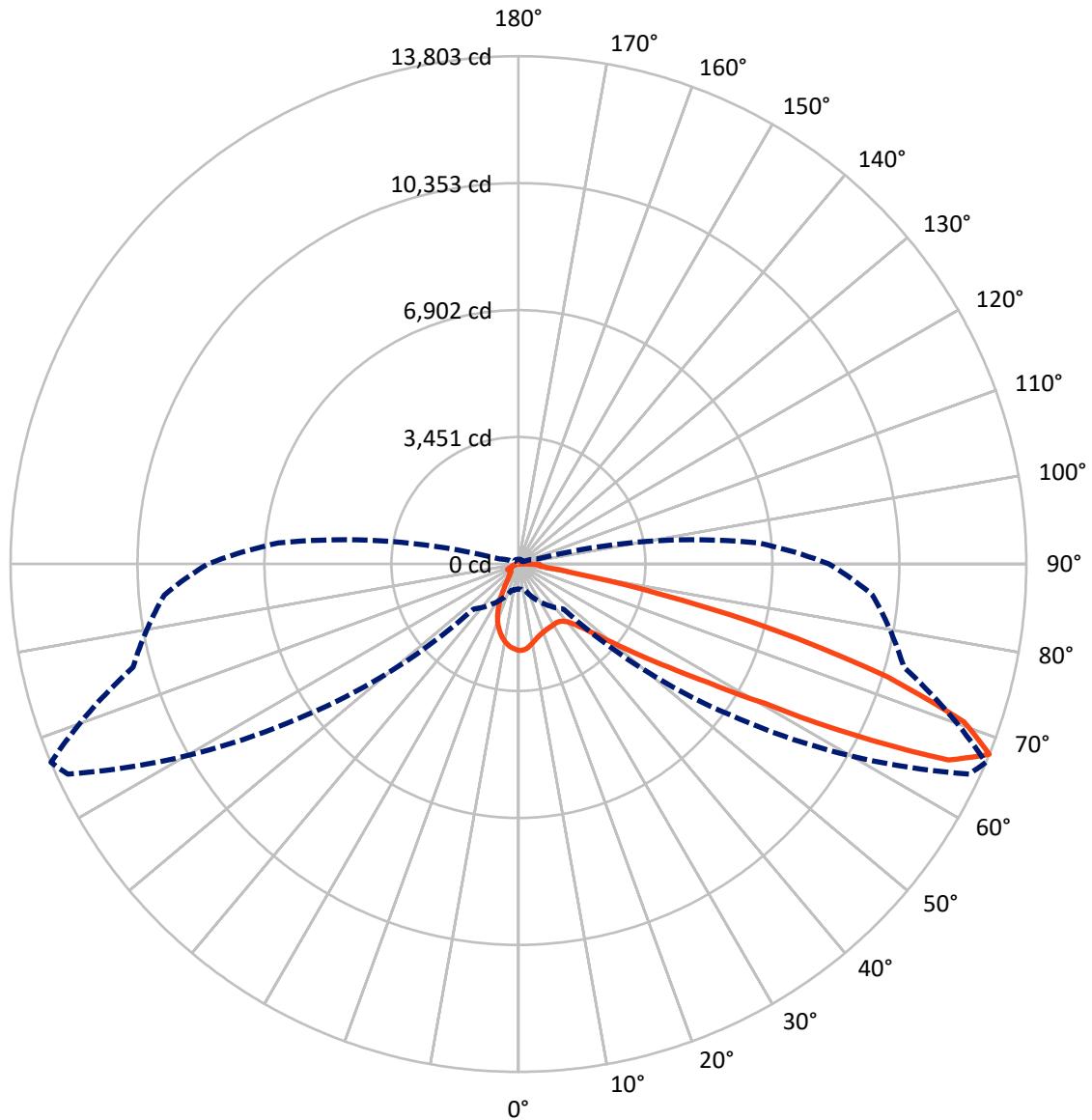
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.0	0.0	1805.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	9089.0	0.0	9089.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	10894.0	0.0	10894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.8
10°-20°	463.9	4.3
20°-30°	628.8	5.8
30°-40°	893.9	8.2
40°-50°	1495.5	13.7
50°-60°	2365.8	21.7
60°-70°	3013.8	27.7
70°-80°	1578.7	14.5
80°-90°	253.2	2.3
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°	10894.0	100.0
0°-180°	10894.0	100.0

Coefficient of Utilization



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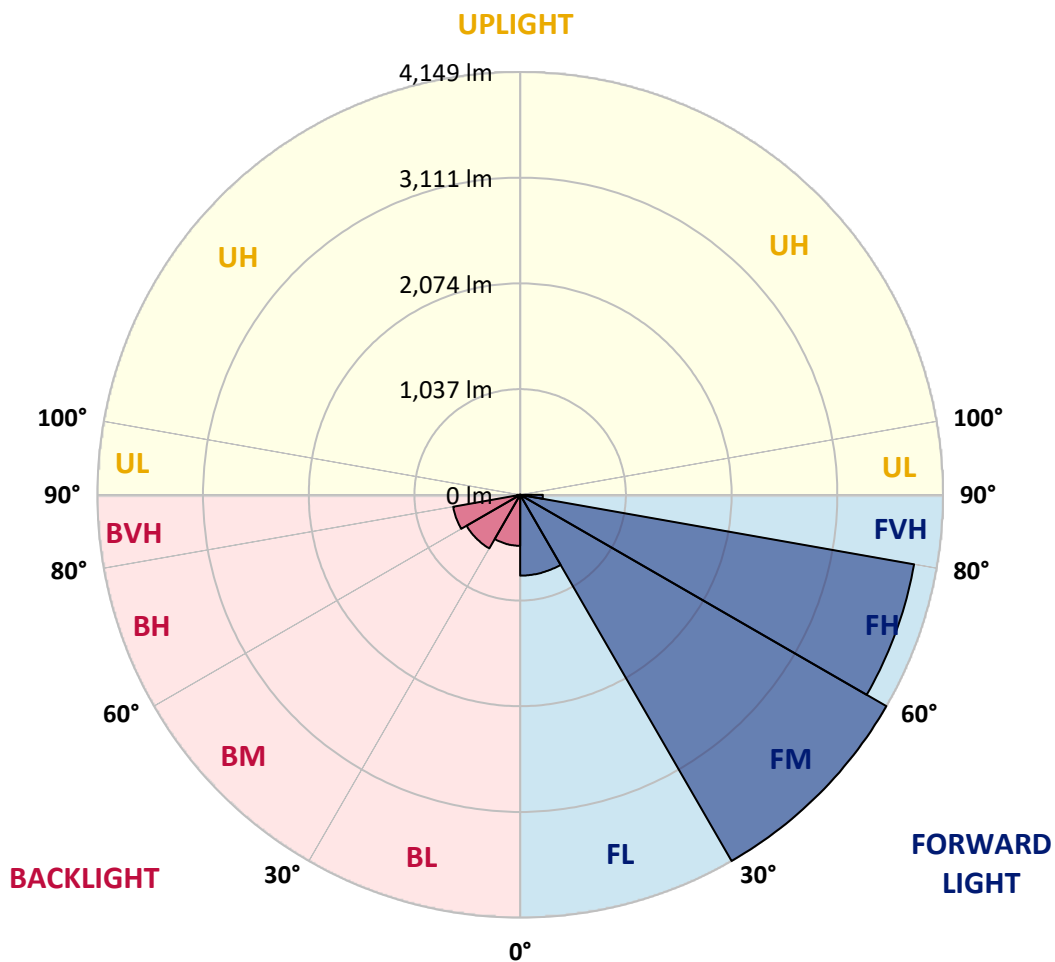
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.8	7.3			
FM (30°-60°)	4148.7	38.1			
FH (60°-80°)	3924.9	36.0			G2/5000
FVH (80°-90°)	222.6	2.0			G2/225
BL (0°-30°)	500.3	4.6	B2/1000		
BM (30°-60°)	606.5	5.6	B1/1000		
BH (60°-80°)	667.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	30.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8
2.5°	2253.1	2256.9	2268.7	2276.2	2310.1	2324.6	2334.8	2345.0	2346.6	2351.4	2346.6
5°	2016.7	2024.8	2046.8	2071.5	2137.1	2188.6	2242.9	2299.3	2309.5	2346.0	2356.3
7.5°	1833.5	1831.4	1849.7	1879.2	1946.4	2017.8	2112.9	2225.2	2247.2	2329.4	2369.1
10°	1699.8	1698.2	1717.5	1748.1	1812.0	1879.7	1987.2	2140.8	2172.0	2303.1	2381.5
12.5°	1600.9	1601.5	1620.8	1654.6	1719.6	1787.9	1896.9	2059.2	2098.9	2272.4	2394.4
15°	1535.4	1539.7	1555.3	1591.3	1654.6	1722.9	1829.8	1997.9	2042.5	2248.3	2408.9
17.5°	1513.4	1520.3	1525.7	1552.0	1606.3	1674.5	1779.3	1952.8	2000.1	2231.6	2421.8
20°	1533.8	1541.8	1531.6	1540.8	1575.1	1635.3	1739.5	1917.3	1965.7	2212.8	2423.4
22.5°	1621.3	1628.9	1598.8	1572.4	1570.3	1606.8	1706.8	1889.4	1939.4	2198.8	2423.9
25°	1775.5	1780.4	1729.9	1668.6	1609.0	1596.6	1683.7	1870.1	1923.3	2186.5	2413.7
27.5°	1964.6	1968.4	1910.4	1820.1	1700.3	1620.8	1675.6	1858.8	1914.1	2175.7	2396.5
30°	2194.6	2212.3	2134.4	2020.5	1845.9	1692.2	1691.7	1852.9	1903.9	2157.5	2362.7
32.5°	2429.9	2437.4	2383.7	2268.2	2042.0	1818.0	1736.8	1857.2	1901.2	2135.5	2319.7
35°	2668.4	2678.1	2643.1	2550.2	2310.1	2002.2	1824.9	1882.4	1917.9	2127.9	2289.6
37.5°	2977.3	2990.2	2941.8	2834.4	2636.1	2252.0	1971.6	1945.8	1968.9	2149.4	2280.5
40°	3465.6	3459.7	3318.4	3158.3	2992.9	2571.7	2181.1	2053.3	2066.7	2218.7	2308.4
42.5°	4034.0	4019.5	3776.1	3524.7	3385.0	2958.5	2458.3	2239.7	2237.0	2355.2	2406.8
45°	4487.4	4475.6	4256.4	3946.4	3834.7	3399.0	2816.7	2517.4	2497.5	2571.7	2588.3
47.5°	4732.9	4733.5	4607.2	4354.2	4351.5	3958.8	3277.1	2919.3	2884.9	2919.8	2902.1
50°	4647.0	4658.3	4644.8	4564.2	4823.2	4692.6	3878.2	3479.6	3410.3	3444.7	3376.4
52.5°	4231.2	4245.7	4325.2	4448.7	5021.4	5579.6	4761.4	4175.8	4095.2	4082.9	4007.1
55°	3494.1	3511.8	3674.1	4009.8	4856.5	6175.4	6155.0	5063.3	4934.9	4818.3	4786.1
57.5°	2408.4	2437.9	2699.0	3197.5	4323.0	6355.3	7814.4	6328.5	6067.4	5660.2	5667.7
60°	1357.6	1391.9	1699.8	2152.6	3246.4	6159.8	9076.9	8244.7	7693.6	6646.0	6701.8
62.5°	863.3	900.4	1134.1	1495.6	1948.0	5106.8	9594.2	10908.8	10208.8	7861.2	7916.0
65°	698.9	715.0	825.2	1234.5	1414.5	3076.7	9201.5	13103.4	12842.3	9403.5	9147.8
67.5°	682.3	687.6	744.6	1036.3	1356.5	1729.3	7339.5	13513.8	13803.4	10843.8	9660.9
70°	674.2	693.0	839.1	989.0	1299.0	1458.6	4410.6	12388.9	12846.1	11220.4	8978.1
72.5°	327.2	326.1	422.3	894.5	1463.4	1512.8	2266.0	10024.0	10482.8	9721.0	7377.7
75°	263.8	241.2	230.5	327.7	1407.0	1562.2	1444.1	6897.4	7229.4	6517.6	4535.2
77.5°	250.3	223.5	204.7	205.2	594.7	1656.8	1223.3	3817.5	3914.2	2944.0	1242.6
80°	207.4	182.7	169.2	190.7	288.0	1577.8	1322.6	1727.7	1585.3	723.1	413.7
82.5°	144.0	131.1	127.3	160.1	230.5	1124.4	1538.1	928.3	778.4	362.1	255.2
85°	91.9	78.4	87.0	116.6	179.4	519.0	1584.3	723.6	575.4	229.9	144.0
87.5°	42.4	34.4	43.0	64.5	117.1	178.9	1507.4	812.8	592.6	121.4	90.8
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°	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8
2.5°	2350.9	2340.7	2332.6	2317.6	2300.9	2284.8	2270.3	2252.0	2246.7	2241.8	2249.3
5°	2358.4	2348.2	2318.7	2272.4	2221.4	2173.6	2125.8	2085.0	2059.7	2045.7	2053.8
7.5°	2369.7	2355.2	2293.9	2209.1	2117.2	2033.4	1946.9	1877.6	1826.6	1802.4	1809.4
10°	2379.9	2352.0	2252.0	2124.7	1990.4	1865.8	1729.3	1616.5	1532.7	1488.6	1499.4
12.5°	2384.2	2339.6	2193.5	2019.4	1835.2	1652.5	1451.6	1282.9	1162.5	1118.5	1109.4
15°	2388.5	2325.6	2129.0	1899.6	1647.7	1389.3	1107.8	905.8	805.8	783.8	779.0
17.5°	2389.6	2301.5	2055.9	1769.6	1427.9	1076.1	757.5	629.1	629.6	665.1	669.4
20°	2378.3	2265.5	1967.3	1607.9	1164.7	744.1	520.0	498.0	579.1	667.8	678.5
22.5°	2352.5	2217.7	1866.8	1419.3	863.3	489.9	402.4	426.6	531.3	639.8	652.2
25°	2319.7	2159.6	1748.1	1200.7	571.6	350.3	337.4	366.9	437.8	510.4	517.3
27.5°	2275.1	2090.9	1614.9	950.3	371.2	288.5	297.1	317.0	346.0	378.2	381.4
30°	2217.7	2008.7	1472.5	693.0	280.4	259.5	271.8	282.6	294.9	313.2	314.8
32.5°	2151.6	1929.7	1326.4	478.7	248.7	244.4	254.1	259.5	269.1	280.4	281.5
35°	2096.2	1854.5	1174.9	338.4	235.3	233.2	239.6	241.7	250.9	263.2	264.3
37.5°	2064.5	1793.2	1018.6	272.9	226.2	222.9	226.7	226.7	239.6	257.9	260.6
40°	2066.7	1759.4	862.2	246.6	218.6	214.4	214.9	214.9	231.5	251.4	253.0
42.5°	2125.3	1768.0	723.6	236.4	212.7	207.9	205.2	206.8	220.8	233.7	234.8
45°	2262.8	1828.7	593.6	229.9	206.8	205.2	199.3	198.8	204.1	210.1	210.1
47.5°	2488.4	1948.5	505.5	225.6	202.0	201.5	194.5	187.5	187.0	189.1	189.1
50°	2855.3	2154.8	446.4	220.8	198.8	194.5	186.4	175.7	171.9	173.5	173.5
52.5°	3405.5	2522.8	423.9	214.4	191.8	184.8	175.7	164.9	161.7	162.2	162.2
55°	4126.9	3088.0	420.6	206.8	184.3	173.0	165.5	157.4	153.6	154.7	154.7
57.5°	5008.5	3869.6	478.1	195.0	174.1	161.2	156.9	151.5	148.8	150.4	149.9
60°	6080.3	4892.5	709.1	182.7	163.9	150.4	150.4	146.1	144.0	145.6	145.0
62.5°	7314.8	6067.4	997.1	173.5	153.1	141.8	144.0	141.8	139.7	140.8	140.2
65°	8409.7	6832.9	933.7	166.5	142.4	133.8	137.5	136.5	134.8	135.9	135.4
67.5°	8441.4	6549.3	524.3	159.0	132.2	125.7	131.1	130.5	129.5	130.5	130.0
70°	7533.5	5530.2	295.5	145.0	121.4	116.0	123.6	123.0	121.9	124.1	123.6
72.5°	6035.7	4013.0	216.0	127.9	110.7	105.8	114.4	113.9	113.9	117.1	115.5
75°	3473.1	2065.1	172.4	109.6	99.4	95.6	103.1	103.7	104.8	109.1	105.8
77.5°	990.1	643.6	140.8	92.9	85.4	83.8	91.3	92.4	92.9	97.8	93.5
80°	368.0	296.5	116.0	77.9	69.8	70.4	77.4	79.0	79.5	84.3	79.0
82.5°	234.8	195.5	94.0	60.2	54.8	54.3	62.9	65.0	65.0	65.5	62.3
85°	137.0	117.1	70.9	43.5	38.7	37.1	46.7	50.5	48.9	47.8	45.7
87.5°	91.9	80.6	43.5	24.2	21.0	19.9	27.4	30.1	29.0	27.4	25.8
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)