

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: P269938

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269938
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-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6215.7 lumens
Efficiency: N/A
Efficacy: 92.8 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

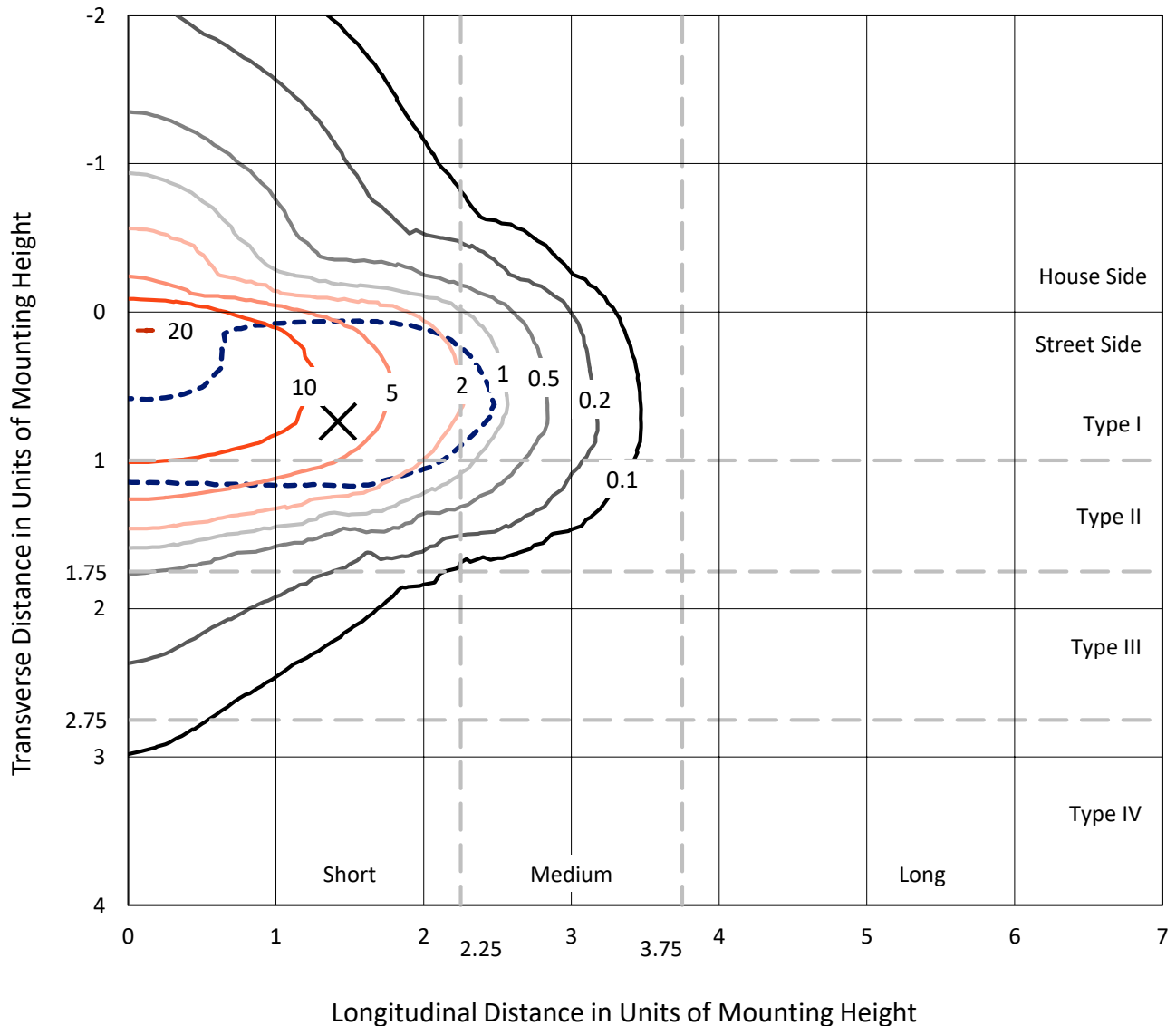
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

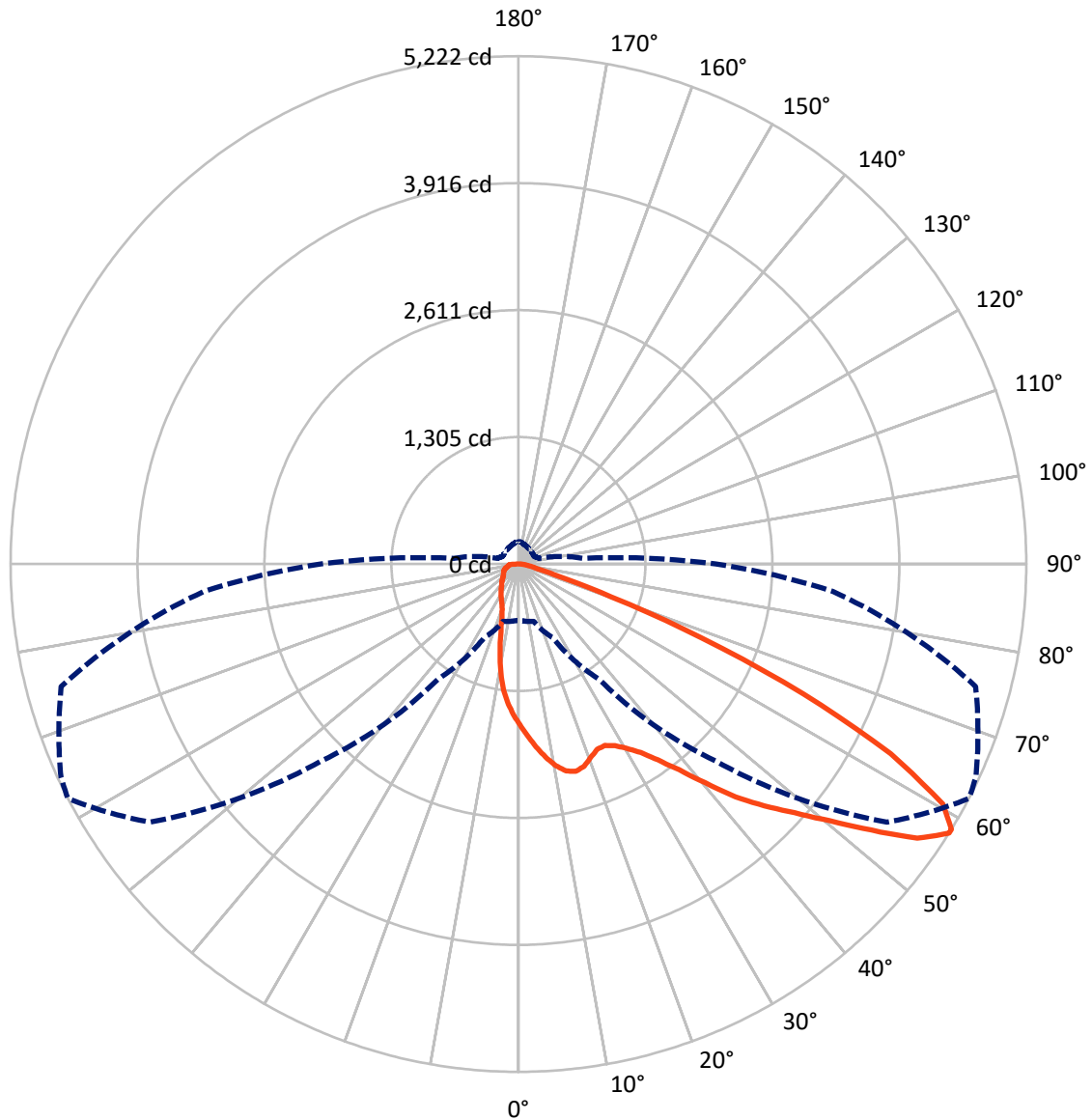
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 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	947.9	0.0	947.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5267.8	0.0	5267.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	6215.7	0.0	6215.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	2.4
10°-20°	377.5	6.1
20°-30°	610.2	9.8
30°-40°	968.6	15.6
40°-50°	1417.3	22.8
50°-60°	1482.4	23.8
60°-70°	875.8	14.1
70°-80°	246.7	4.0
80°-90°	89.6	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°	6215.7	100.0
0°-180°	6215.7	100.0



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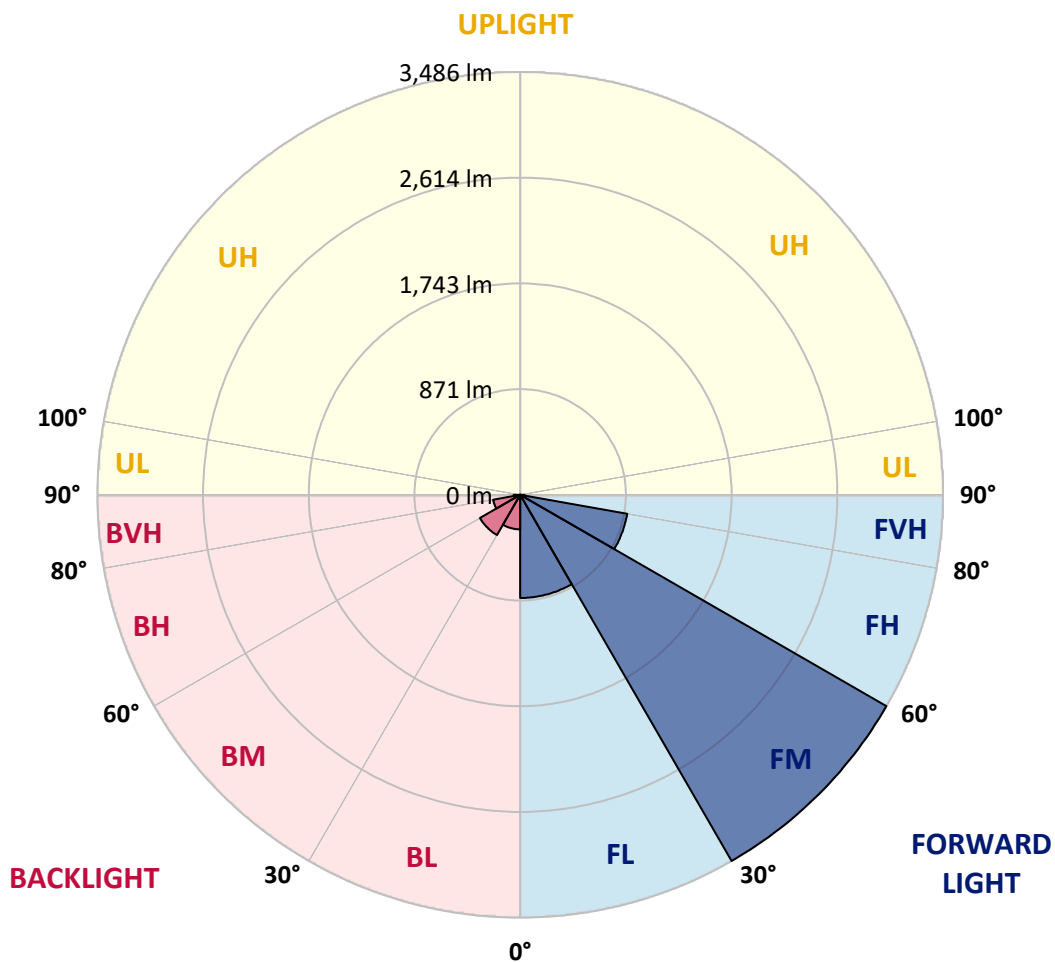
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.4	13.7			
FM	(30°-60°)	3485.7	56.1			
FH	(60°-80°)	896.3	14.4			G1/1800
FVH	(80°-90°)	35.3	0.6			G1/100
BL	(0°-30°)	284.9	4.6	B1/500		
BM	(30°-60°)	382.6	6.2	B1/1000		
BH	(60°-80°)	226.2	3.6	B1/500		G1/500
BVH	(80°-90°)	54.2	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°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1
2.5°	1886.7	1871.4	1861.7	1853.4	1842.2	1818.4	1786.5	1766.3	1756.1	1721.3	1680.1
5°	2071.8	2058.1	2048.2	2036.8	2017.0	1979.8	1928.2	1887.2	1867.0	1797.4	1714.9
7.5°	2028.4	2033.9	2051.2	2081.4	2107.2	2102.2	2056.2	2004.1	1977.3	1880.5	1755.3
10°	1767.2	1776.9	1806.9	1877.4	1991.5	2108.5	2144.3	2108.2	2081.4	1962.7	1796.8
12.5°	1714.9	1714.5	1716.9	1735.6	1803.5	1968.4	2147.2	2183.5	2167.4	2041.3	1839.3
15°	1736.2	1736.9	1735.0	1743.0	1764.0	1829.3	2057.7	2212.4	2223.8	2120.3	1883.1
17.5°	1792.5	1791.0	1784.3	1784.3	1791.8	1817.4	1952.2	2185.5	2238.2	2190.2	1921.8
20°	1886.7	1880.0	1862.0	1845.7	1837.6	1851.2	1909.0	2123.6	2213.3	2251.4	1953.8
22.5°	2000.9	1995.6	1966.6	1931.4	1903.1	1902.8	1931.1	2069.3	2170.3	2309.1	1980.7
25°	2148.3	2139.9	2096.9	2040.7	1991.0	1971.9	1979.8	2066.7	2146.9	2371.6	2004.7
27.5°	2321.6	2306.0	2255.1	2174.1	2101.0	2062.6	2051.2	2114.4	2168.2	2449.3	2038.1
30°	2531.9	2513.9	2448.7	2343.0	2239.7	2176.8	2152.5	2199.1	2239.0	2543.8	2091.6
32.5°	2770.9	2745.2	2669.7	2553.2	2417.3	2321.3	2281.9	2310.8	2342.7	2657.6	2158.5
35°	3101.4	3070.6	2961.4	2800.7	2647.5	2515.4	2452.2	2473.3	2504.3	2827.4	2255.5
37.5°	3326.8	3312.9	3240.4	3089.5	2922.5	2770.6	2672.8	2685.2	2702.7	3039.7	2379.6
40°	3324.6	3330.2	3331.8	3333.3	3219.6	3074.2	2969.1	2956.2	2952.6	3272.5	2520.6
42.5°	3158.1	3181.0	3254.7	3404.2	3473.3	3406.6	3310.3	3273.2	3254.7	3547.1	2670.2
45°	2903.2	2915.4	3053.7	3345.7	3603.3	3736.0	3663.1	3546.0	3512.6	3799.4	2794.4
47.5°	2771.8	2785.3	2872.2	3190.6	3601.8	4001.9	4044.1	3821.1	3761.5	4018.9	2901.4
50°	2458.9	2487.0	2596.6	2920.7	3470.4	4124.4	4442.5	4148.9	4025.5	4232.6	3009.0
52.5°	1884.4	1927.7	2050.3	2477.0	3137.2	4063.8	4761.2	4546.4	4372.0	4453.8	3101.0
55°	1188.6	1220.8	1323.8	1749.4	2509.5	3748.4	4882.1	4976.4	4821.3	4663.6	3181.0
57.5°	646.3	660.7	699.2	965.9	1632.3	3051.6	4706.0	5221.0	5156.7	4841.4	3241.3
58°	578.4	588.0	612.0	837.1	1447.7	2861.1	4627.8	5221.9	5189.8	4867.5	3245.9
60°	429.1	424.1	402.7	477.7	805.8	1976.5	4155.4	5012.9	5107.6	4899.4	3223.1
62.5°	377.0	365.0	321.4	316.5	391.9	910.5	3179.6	4294.1	4517.4	4717.3	3084.4
65°	354.1	341.3	285.1	266.9	282.7	385.3	1873.0	3220.6	3500.7	4165.4	2729.7
67.5°	337.1	320.4	261.9	237.2	238.2	254.6	750.8	2028.4	2343.6	3162.6	2123.2
70°	320.8	302.6	242.4	213.6	206.9	201.4	298.5	1015.4	1301.4	1997.7	1353.7
72.5°	303.3	285.4	225.0	195.2	182.0	163.6	194.9	415.3	580.1	945.0	614.1
75°	277.8	261.6	207.8	178.9	160.1	135.6	147.2	216.9	260.1	376.4	295.9
77.5°	246.4	233.3	188.6	165.4	141.9	110.0	113.2	150.5	166.8	215.5	175.9
80°	177.1	181.7	167.8	148.7	126.4	89.3	87.0	109.8	118.5	138.5	114.4
82.5°	124.3	127.0	138.8	121.5	104.6	70.2	64.0	77.3	82.6	91.0	61.8
85°	85.8	82.9	95.1	84.6	75.5	46.8	43.8	52.5	55.7	56.6	31.9
87.5°	51.6	51.6	55.1	45.4	40.8	24.3	23.7	29.9	31.9	30.5	17.5
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°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1
2.5°	1655.4	1634.6	1590.4	1555.1	1510.3	1463.8	1437.6	1409.9	1390.8	1377.1	1399.1
5°	1668.1	1625.7	1534.2	1447.7	1351.9	1252.4	1176.9	1106.7	1057.8	1027.3	1056.0
7.5°	1687.9	1622.7	1477.3	1329.1	1157.2	991.6	843.6	750.8	696.6	670.0	686.7
10°	1710.8	1617.9	1410.2	1168.4	922.6	713.9	603.2	565.8	553.4	548.5	550.8
12.5°	1729.9	1608.1	1328.0	974.1	692.9	563.7	531.8	531.0	533.6	534.1	535.0
15°	1743.3	1593.5	1205.9	771.6	554.1	513.7	511.9	517.2	522.2	524.3	525.4
17.5°	1752.4	1563.3	1068.1	609.9	496.5	489.3	493.4	500.1	505.4	507.0	508.1
20°	1751.4	1519.0	903.9	508.7	465.1	465.1	472.1	477.4	477.7	475.9	476.8
22.5°	1742.4	1458.5	744.7	454.8	437.2	442.2	449.3	444.3	423.8	410.3	411.2
25°	1727.3	1386.2	608.2	420.5	411.6	420.2	418.3	380.8	351.5	338.3	338.3
27.5°	1713.7	1300.7	503.4	390.8	385.7	396.6	360.3	326.4	314.0	307.8	305.9
30°	1704.1	1208.5	433.5	362.0	361.5	353.6	312.6	303.3	301.2	296.3	294.5
32.5°	1706.4	1115.2	388.6	336.9	338.9	302.6	289.8	291.8	290.1	284.9	282.4
35°	1725.7	1026.5	359.4	314.0	307.8	273.4	276.3	280.1	279.6	272.1	269.9
37.5°	1760.3	942.5	340.1	295.1	268.8	258.7	263.5	269.3	267.9	262.8	261.0
40°	1796.5	863.5	324.3	280.1	245.5	248.8	253.0	256.0	257.5	259.0	257.9
42.5°	1832.0	780.8	305.0	264.9	236.0	239.4	241.1	244.3	252.3	257.9	257.5
45°	1853.1	703.4	285.1	243.3	228.3	230.3	229.2	235.6	245.2	254.3	254.6
47.5°	1876.5	643.0	269.3	223.3	221.1	222.4	218.9	225.4	234.2	245.2	246.4
50°	1904.9	607.1	256.6	207.5	211.0	211.0	210.2	216.0	228.3	241.1	243.5
52.5°	1937.0	600.0	246.1	196.1	201.1	200.9	201.7	210.5	223.9	236.6	238.5
55°	1976.2	619.0	234.7	187.7	191.3	192.5	195.6	205.4	216.9	231.3	232.1
57.5°	2021.9	657.6	225.7	180.9	182.6	186.5	191.1	200.2	212.4	228.3	229.2
58°	2029.5	665.9	224.1	180.3	180.9	185.3	190.5	199.3	211.6	228.9	229.7
60°	2029.8	693.1	221.1	177.7	174.1	181.5	187.3	196.1	210.2	231.0	233.0
62.5°	1957.9	692.9	218.6	173.8	167.2	176.2	183.0	193.1	208.6	236.0	239.9
65°	1723.9	629.6	207.5	168.1	161.5	171.5	179.1	191.1	212.8	257.5	260.1
67.5°	1348.4	516.0	186.8	159.8	154.2	166.8	176.7	190.8	217.2	262.6	264.3
70°	891.6	386.0	163.9	150.5	146.7	161.2	178.0	200.9	212.2	252.1	247.4
72.5°	462.7	271.0	145.4	138.8	137.9	156.2	194.9	199.7	207.1	237.2	231.3
75°	242.9	188.3	129.4	125.9	127.3	155.1	230.1	194.4	200.9	226.8	238.0
77.5°	148.7	152.0	115.6	114.2	117.0	151.6	229.7	187.7	191.3	208.6	221.1
80°	99.5	123.2	105.1	105.5	107.3	138.8	206.3	177.1	180.0	197.3	209.8
82.5°	62.9	72.9	95.4	100.4	97.7	114.4	175.3	161.2	165.4	225.7	238.5
85°	31.9	45.6	82.9	96.6	88.2	80.2	142.2	141.4	143.4	162.8	170.0
87.5°	14.6	25.2	64.7	84.4	66.5	50.0	103.3	104.8	112.9	115.6	115.6
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)