

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: P200255

Luminaire Tested: **GPC-AF-01-LED-E1-AFL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200255
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-7050
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6522 lumens
Efficiency: N/A
Efficacy: 110.5 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 - G1

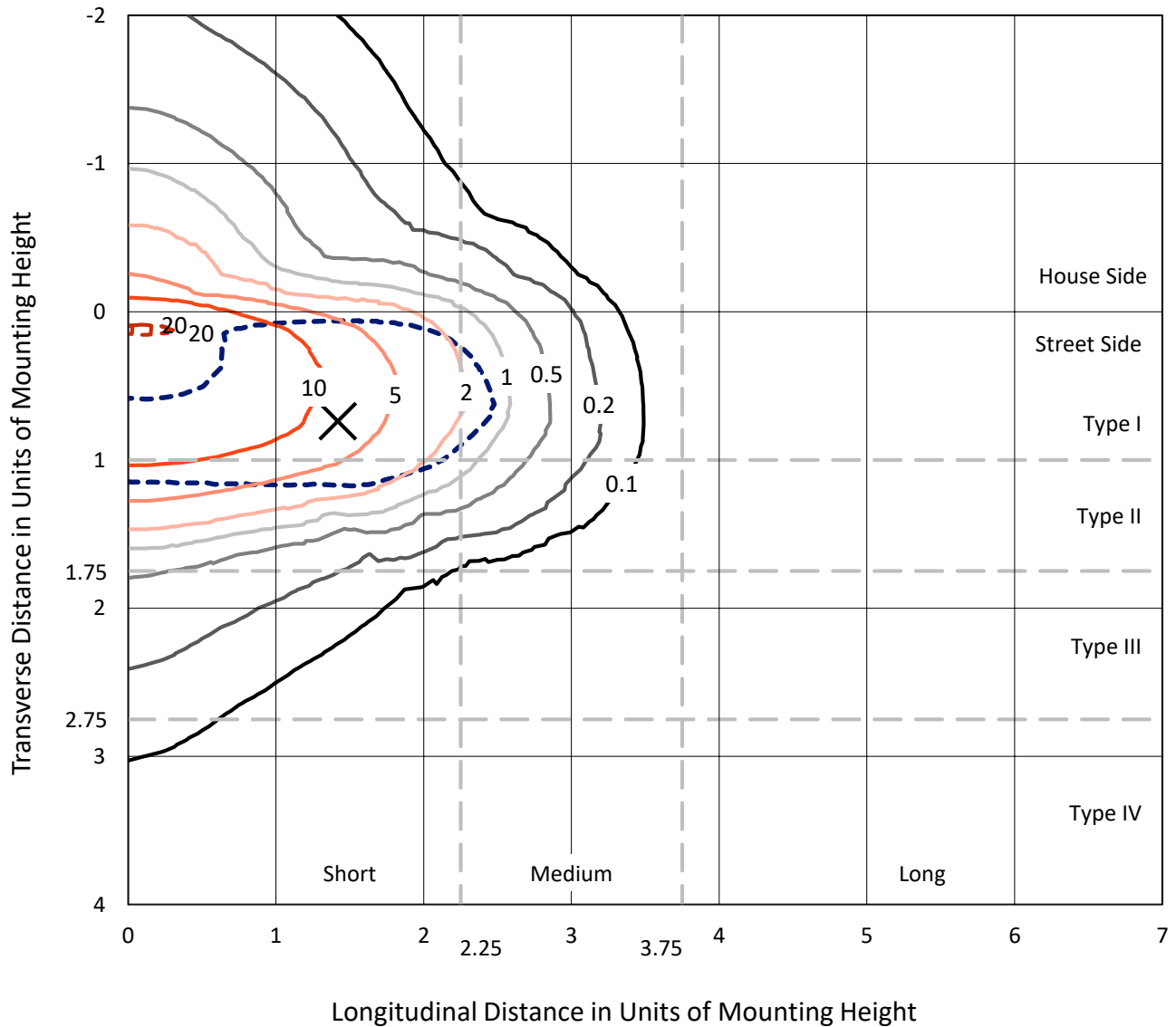
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

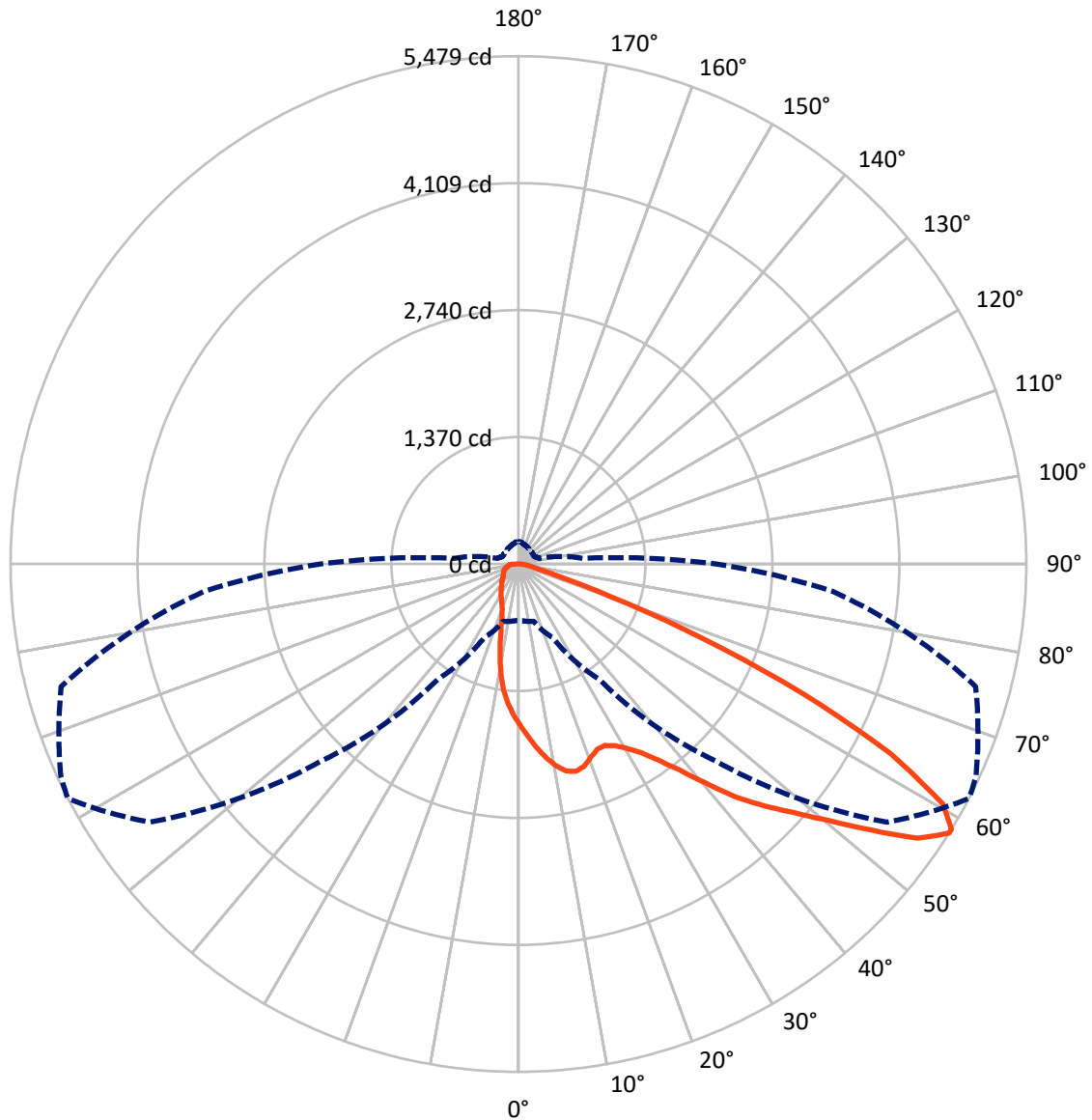
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 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	994.6	0.0	994.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5527.4	0.0	5527.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	6522.0	0.0	6522.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	2.4
10°-20°	396.1	6.1
20°-30°	640.2	9.8
30°-40°	1016.4	15.6
40°-50°	1487.2	22.8
50°-60°	1555.4	23.8
60°-70°	919.0	14.1
70°-80°	258.9	4.0
80°-90°	94.0	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°	6522.0	100.0
0°-180°	6522.0	100.0



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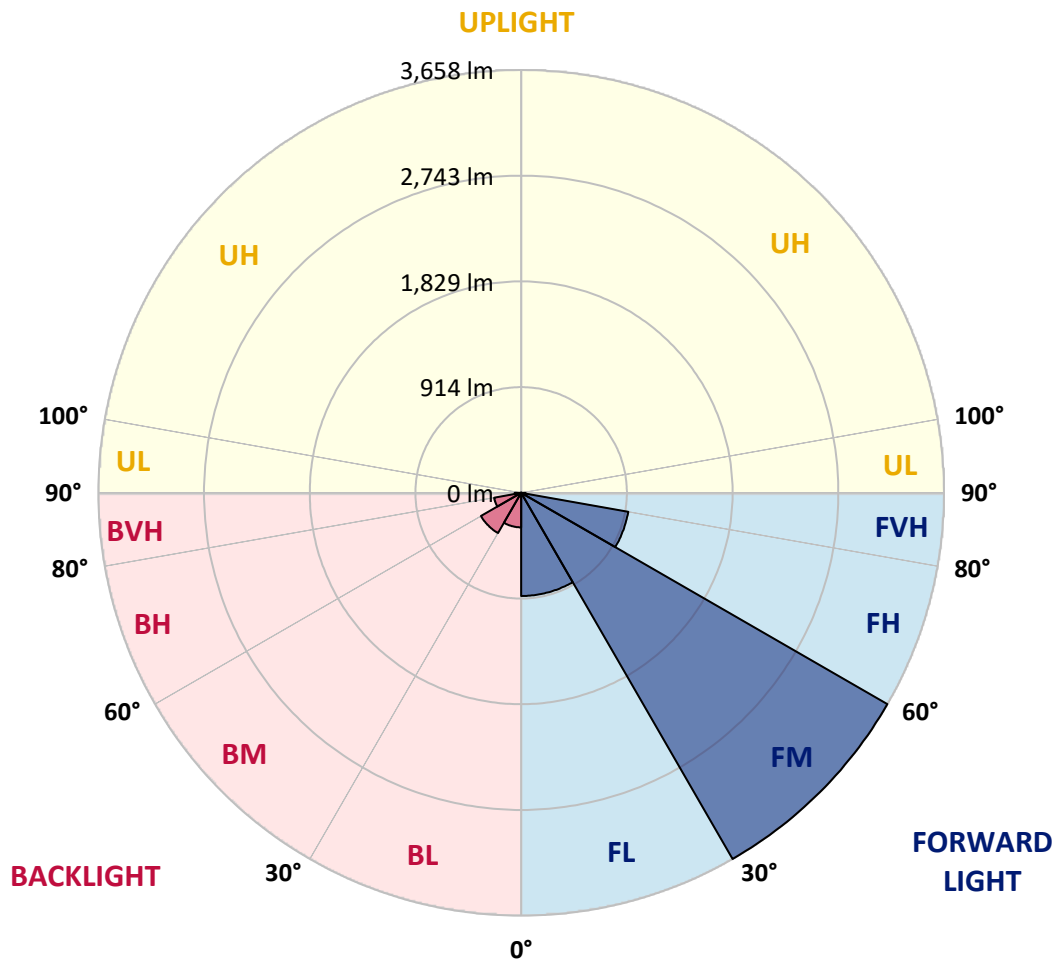
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.3	13.7			
FM	(30°-60°)	3657.5	56.1			
FH	(60°-80°)	940.5	14.4			G1/1800
FVH	(80°-90°)	37.1	0.6			G1/100
BL	(0°-30°)	298.9	4.6	B1/500		
BM	(30°-60°)	401.5	6.2	B1/1000		
BH	(60°-80°)	237.3	3.6	B1/500		G1/500
BVH	(80°-90°)	56.9	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°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1979.7	1963.7	1953.6	1944.7	1933.0	1908.1	1874.6	1853.4	1842.7	1806.1	1762.8
5°	2173.8	2159.6	2149.2	2137.2	2116.3	2077.3	2023.3	1980.3	1959.1	1886.0	1799.4
7.5°	2128.3	2134.1	2152.3	2183.9	2210.9	2205.7	2157.5	2102.8	2074.9	1973.2	1841.8
10°	1854.4	1864.5	1895.8	1969.8	2089.6	2212.5	2249.9	2212.2	2183.9	2059.5	1885.4
12.5°	1799.4	1799.1	1801.5	1821.2	1892.4	2065.3	2253.0	2291.1	2274.2	2141.8	1929.9
15°	1821.8	1822.4	1820.6	1828.9	1851.0	1919.5	2159.0	2321.5	2333.5	2224.7	1976.0
17.5°	1880.8	1879.2	1872.2	1872.2	1880.2	1906.9	2048.5	2293.2	2348.5	2298.1	2016.5
20°	1979.7	1972.6	1953.9	1936.7	1928.1	1942.5	2003.0	2228.1	2322.4	2362.3	2050.0
22.5°	2099.4	2093.9	2063.5	2026.7	1996.9	1996.6	2026.3	2171.3	2277.3	2422.8	2078.2
25°	2254.2	2245.3	2200.2	2141.2	2089.0	2069.0	2077.3	2168.5	2252.7	2488.6	2103.4
27.5°	2436.0	2419.8	2366.3	2281.3	2204.5	2164.2	2152.3	2218.6	2275.1	2569.9	2138.4
30°	2656.5	2637.8	2569.3	2458.5	2350.0	2284.0	2258.5	2307.4	2349.4	2669.1	2194.6
32.5°	2907.5	2880.4	2801.2	2679.0	2536.5	2435.7	2394.3	2424.7	2458.1	2788.6	2265.0
35°	3254.2	3221.9	3107.4	2938.8	2777.9	2639.3	2573.0	2595.1	2627.7	2966.7	2366.6
37.5°	3490.7	3476.2	3400.1	3241.6	3066.5	2907.2	2804.6	2817.5	2835.9	3189.4	2496.8
40°	3488.5	3494.4	3495.9	3497.4	3378.3	3225.6	3115.4	3101.9	3098.2	3433.9	2644.9
42.5°	3313.8	3337.7	3415.1	3572.1	3644.5	3574.5	3473.5	3434.5	3415.1	3721.9	2801.8
45°	3046.3	3059.2	3204.1	3510.6	3780.9	3920.0	3843.5	3720.7	3685.7	3986.7	2932.0
47.5°	2908.4	2922.5	3013.7	3347.9	3779.4	4199.2	4243.4	4009.4	3946.7	4217.0	3044.4
50°	2580.1	2609.6	2724.4	3064.7	3641.5	4327.6	4661.4	4353.4	4223.8	4441.2	3157.1
52.5°	1977.2	2022.7	2151.3	2599.1	3291.7	4264.0	4995.8	4770.4	4587.4	4673.4	3253.9
55°	1247.2	1281.0	1389.1	1835.6	2633.2	3933.2	5122.7	5221.6	5058.8	4893.3	3337.7
57.5°	678.1	693.2	733.7	1013.5	1712.8	3202.0	4937.8	5478.3	5410.8	5080.0	3401.0
58°	606.9	617.0	642.2	878.3	1519.0	3002.1	4855.8	5479.2	5445.5	5107.3	3405.9
60°	450.2	445.0	422.6	501.2	845.5	2073.9	4360.1	5260.0	5359.2	5140.8	3382.0
62.5°	395.6	383.0	337.2	332.0	411.2	955.4	3336.2	4505.7	4740.0	4949.8	3236.4
65°	371.6	358.1	299.1	280.1	296.7	404.2	1965.2	3379.2	3673.1	4370.6	2864.2
67.5°	353.8	336.3	274.9	248.8	250.0	267.2	787.8	2128.3	2459.1	3318.4	2227.8
70°	336.6	317.6	254.3	224.2	217.1	211.3	313.3	1065.4	1365.4	2096.1	1420.4
72.5°	318.2	299.4	236.2	204.8	191.0	171.7	204.5	435.8	608.7	991.7	644.3
75°	291.5	274.6	218.1	187.6	168.0	142.2	154.5	227.6	273.0	395.0	310.5
77.5°	258.6	244.8	197.8	173.5	149.0	115.5	118.9	157.9	175.1	226.0	184.6
80°	185.8	190.7	176.0	156.0	132.7	93.7	91.2	115.2	124.4	145.3	120.1
82.5°	130.5	133.3	145.6	127.5	109.6	73.7	67.3	81.1	86.6	95.5	64.8
85°	90.0	86.9	99.8	88.8	79.2	49.1	46.1	55.0	58.4	59.3	33.5
87.5°	54.1	54.1	57.7	47.6	42.7	25.5	24.9	31.3	33.5	31.9	18.4
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°	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4	1732.4
2.5°	1737.0	1715.2	1668.9	1631.7	1584.7	1535.9	1508.5	1479.4	1459.4	1445.0	1468.0
5°	1750.2	1705.7	1609.9	1519.0	1418.6	1314.1	1234.9	1161.2	1109.9	1078.0	1108.1
7.5°	1771.1	1702.6	1550.0	1394.6	1214.3	1040.5	885.1	787.8	730.9	703.0	720.5
10°	1795.1	1697.7	1479.7	1226.0	968.0	749.1	633.0	593.7	580.8	575.5	578.0
12.5°	1815.1	1687.3	1393.4	1022.1	726.9	591.5	558.0	557.1	559.9	560.5	561.4
15°	1829.2	1671.9	1265.3	809.6	581.4	539.0	537.1	542.7	547.9	550.0	551.3
17.5°	1838.7	1640.3	1120.7	640.0	520.9	513.5	517.8	524.9	530.4	531.9	533.2
20°	1837.8	1593.9	948.4	533.8	488.0	488.0	495.4	500.9	501.2	499.4	500.3
22.5°	1828.3	1530.4	781.3	477.3	458.8	464.1	471.4	466.2	444.7	430.6	431.5
25°	1812.3	1454.5	638.2	441.3	431.8	441.0	438.9	399.6	368.8	355.0	355.0
27.5°	1798.2	1364.8	528.2	410.0	404.8	416.1	378.1	342.4	329.5	323.1	320.9
30°	1788.0	1268.1	454.8	379.9	379.3	371.0	328.0	318.2	316.0	310.8	309.0
32.5°	1790.5	1170.1	407.8	353.5	355.6	317.6	304.0	306.2	304.4	298.8	296.4
35°	1810.8	1077.1	377.1	329.5	323.1	286.8	289.9	293.9	293.3	285.6	283.2
37.5°	1847.0	988.9	356.9	309.6	281.9	271.5	276.4	282.5	281.0	275.8	273.9
40°	1885.1	906.0	340.3	293.9	257.7	261.0	265.3	268.7	270.3	271.8	270.6
42.5°	1922.2	819.4	320.0	277.9	247.5	251.2	253.1	256.4	264.7	270.6	270.3
45°	1944.3	738.0	299.1	255.2	239.5	241.7	240.5	247.2	257.4	266.9	267.2
47.5°	1968.9	674.7	282.5	234.3	231.9	233.4	229.7	236.5	245.7	257.4	258.6
50°	1998.7	637.0	269.3	217.7	221.4	221.4	220.5	226.7	239.5	253.1	255.5
52.5°	2032.5	629.6	258.3	205.8	211.0	210.7	211.6	220.8	234.9	248.1	250.3
55°	2073.6	649.5	246.3	196.9	200.9	202.1	205.2	215.6	227.6	242.6	243.5
57.5°	2121.6	690.1	236.8	189.8	191.6	195.6	200.5	210.1	223.0	239.5	240.5
58°	2129.5	698.7	235.3	189.2	189.8	194.4	199.9	209.1	222.0	240.2	241.1
60°	2129.8	727.2	231.9	186.4	182.7	190.4	196.6	205.8	220.5	242.3	244.5
62.5°	2054.3	726.9	229.4	182.4	175.4	184.9	191.9	202.7	219.0	247.5	251.8
65°	1808.9	660.6	217.7	176.3	169.5	180.0	188.0	200.5	223.3	270.3	273.0
67.5°	1414.9	541.4	195.9	167.7	161.8	175.1	185.5	200.2	227.9	275.5	277.3
70°	935.5	405.1	172.0	157.9	153.9	169.2	186.7	210.7	222.7	264.4	259.5
72.5°	485.5	284.4	152.6	145.6	144.7	164.0	204.5	209.5	217.4	248.8	242.6
75°	254.9	197.5	135.7	132.1	133.6	162.8	241.4	203.9	210.7	238.0	249.7
77.5°	156.0	159.4	121.3	119.8	122.8	159.1	241.1	196.9	200.9	219.0	231.9
80°	104.4	129.3	110.3	110.6	112.7	145.6	216.5	185.8	188.9	207.0	220.2
82.5°	66.0	76.5	100.1	105.3	102.6	120.1	184.0	169.2	173.5	236.8	250.3
85°	33.5	47.9	86.9	101.3	92.4	84.1	149.3	148.3	150.5	170.8	178.4
87.5°	15.4	26.4	67.9	88.4	69.7	52.5	108.4	109.9	118.5	121.3	121.3
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)