

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: P193509

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193509  
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: GLEON-AF-01-LED-E1-AFL-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5218 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

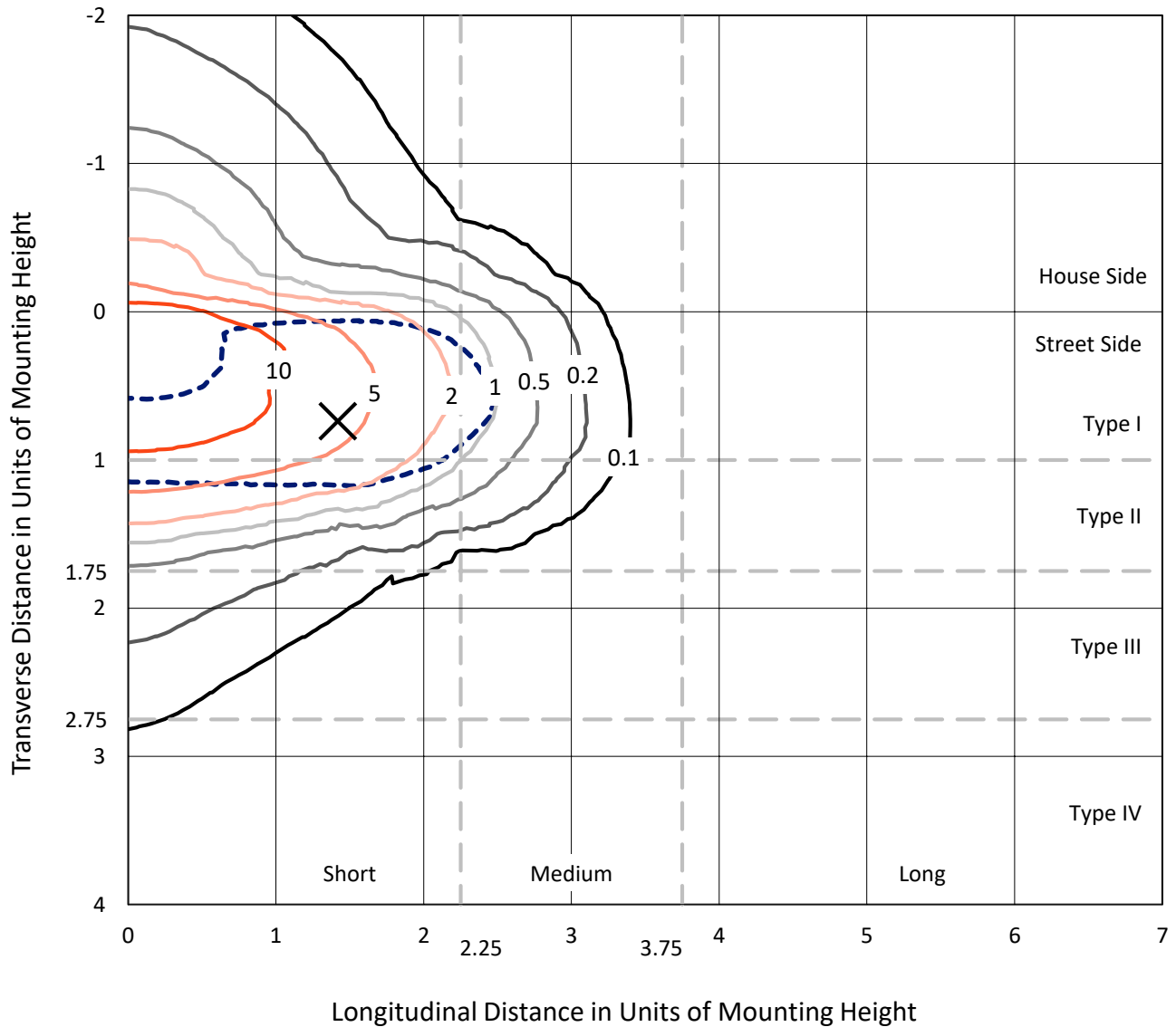
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

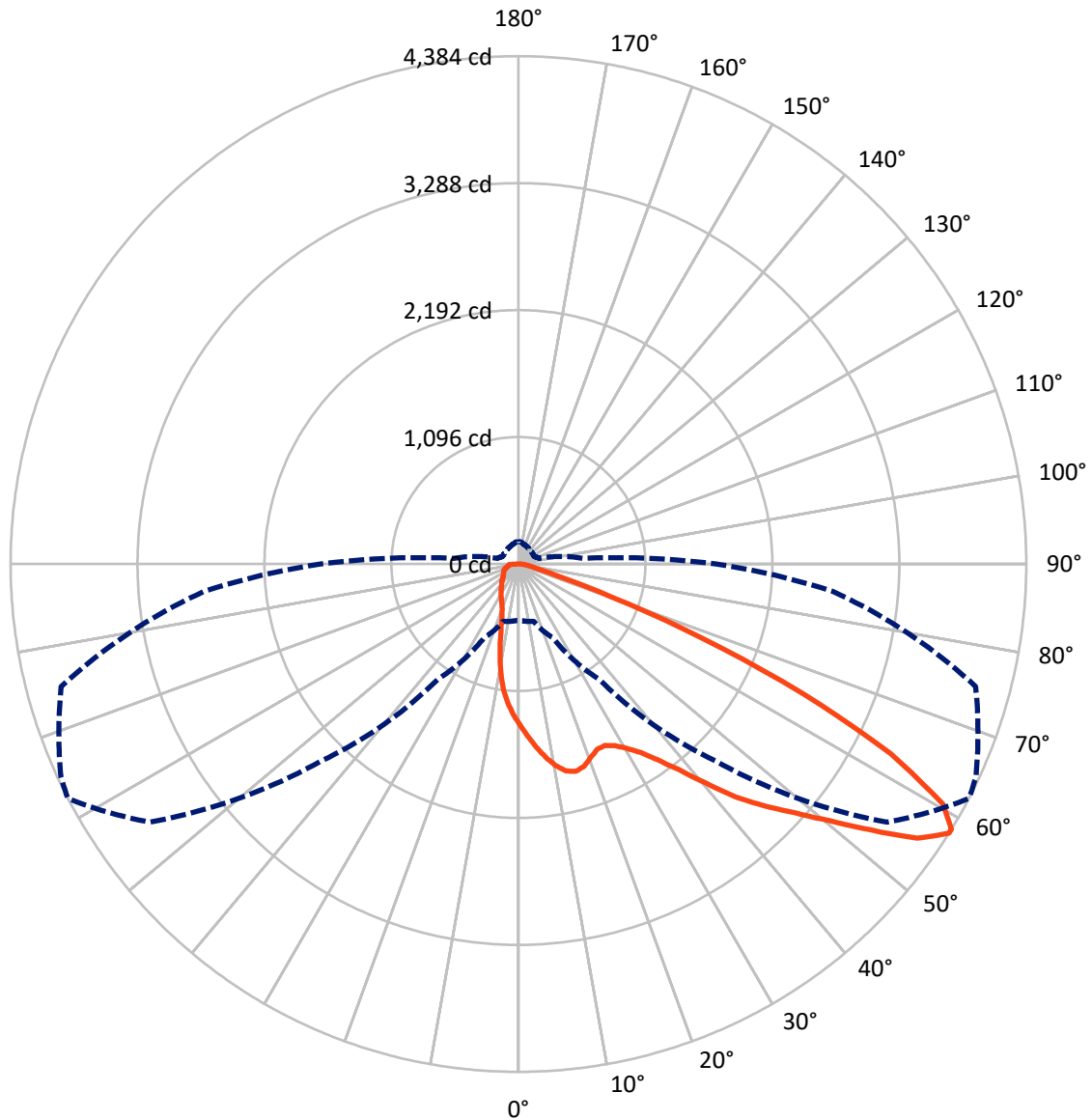
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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
<b>House Side</b>	Lumens	795.8	0.0	795.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	4422.2	0.0	4422.2
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	5218.0	0.0	5218.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	2.4
10°-20°	316.9	6.1
20°-30°	512.2	9.8
30°-40°	813.2	15.6
40°-50°	1189.8	22.8
50°-60°	1244.4	23.8
60°-70°	735.2	14.1
70°-80°	207.1	4.0
80°-90°	75.2	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°	5218.0	100.0
0°-180°	5218.0	100.0



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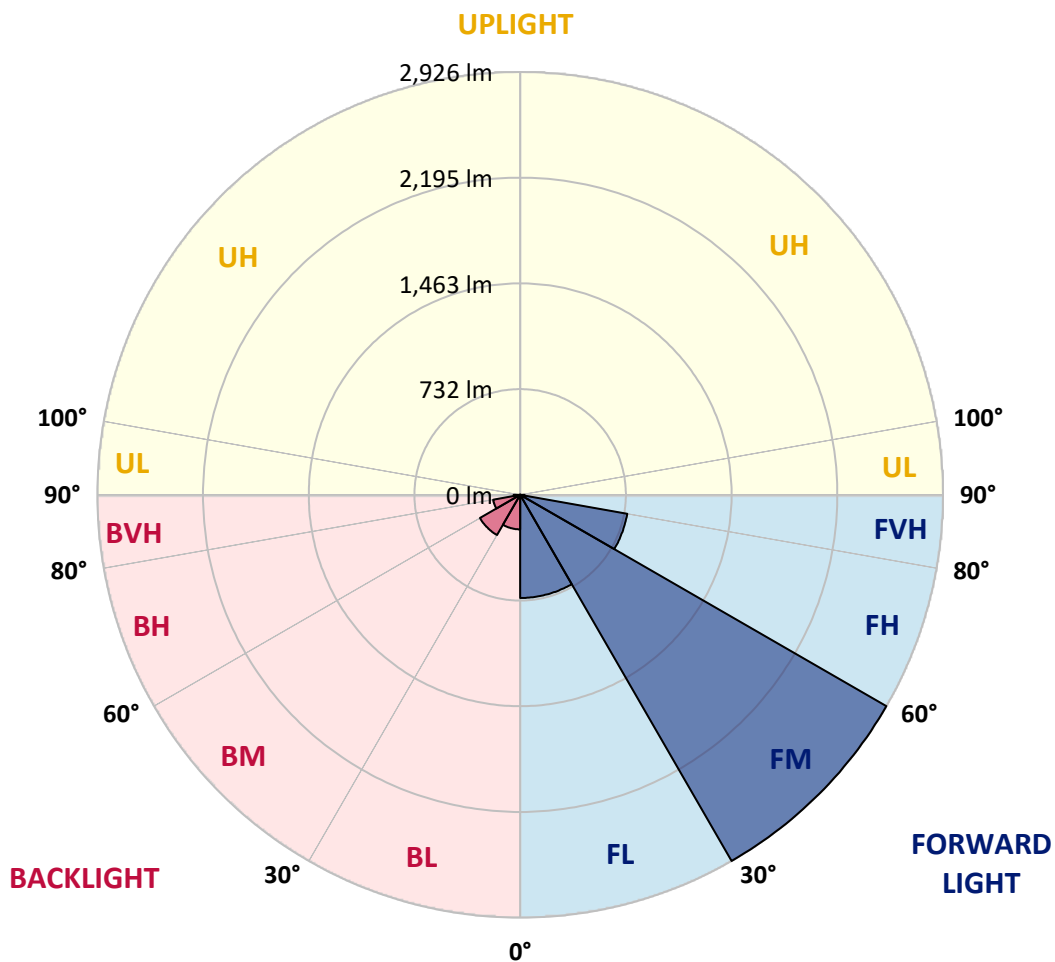
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.9	13.7			
FM (30°-60°)	2926.2	56.1			
FH (60°-80°)	752.5	14.4			G1/1800
FVH (80°-90°)	29.7	0.6			G1/100
BL (0°-30°)	239.2	4.6	B1/500		
BM (30°-60°)	321.2	6.2	B1/1000		
BH (60°-80°)	189.9	3.6	B1/500		G1/500
BVH (80°-90°)	45.5	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°	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1
2.5°	1583.9	1571.1	1563.0	1555.8	1546.5	1526.6	1499.8	1482.9	1474.3	1445.0	1410.4
5°	1739.1	1727.8	1719.5	1709.9	1693.2	1662.0	1618.7	1584.3	1567.4	1508.9	1439.6
7.5°	1702.8	1707.4	1721.9	1747.3	1768.9	1764.7	1726.1	1682.4	1660.0	1578.7	1473.5
10°	1483.6	1491.7	1516.8	1576.0	1671.8	1770.1	1800.1	1769.9	1747.3	1647.7	1508.4
12.5°	1439.6	1439.4	1441.3	1457.1	1514.1	1652.4	1802.5	1833.0	1819.5	1713.6	1544.0
15°	1457.6	1458.0	1456.6	1463.2	1480.9	1535.7	1727.3	1857.3	1866.9	1779.9	1580.9
17.5°	1504.7	1503.5	1497.9	1497.9	1504.2	1525.6	1638.9	1834.7	1879.0	1838.7	1613.3
20°	1583.9	1578.2	1563.2	1549.5	1542.6	1554.1	1602.5	1782.6	1858.1	1890.0	1640.1
22.5°	1679.7	1675.3	1650.9	1621.4	1597.6	1597.4	1621.2	1737.2	1821.9	1938.4	1662.7
25°	1803.5	1796.4	1760.3	1713.1	1671.3	1655.4	1662.0	1735.0	1802.3	1991.0	1682.9
27.5°	1949.0	1936.0	1893.2	1825.1	1763.7	1731.5	1721.9	1775.0	1820.2	2056.1	1710.9
30°	2125.4	2110.4	2055.6	1966.9	1880.2	1827.4	1807.0	1846.0	1879.7	2135.5	1755.9
32.5°	2326.1	2304.5	2241.1	2143.3	2029.3	1948.7	1915.6	1939.9	1966.7	2231.1	1812.1
35°	2603.6	2577.8	2486.1	2351.2	2222.5	2111.6	2058.6	2076.3	2102.3	2373.6	1893.4
37.5°	2792.8	2781.2	2720.3	2593.5	2453.4	2325.9	2243.8	2254.2	2268.9	2551.7	1997.6
40°	2791.0	2795.7	2796.9	2798.2	2702.8	2580.7	2492.5	2481.7	2478.7	2747.3	2116.1
42.5°	2651.2	2670.4	2732.3	2857.9	2915.9	2859.8	2779.0	2747.8	2732.3	2977.8	2241.6
45°	2437.2	2447.5	2563.5	2808.7	3024.9	3136.3	3075.1	2976.8	2948.8	3189.6	2345.8
47.5°	2326.9	2338.2	2411.2	2678.5	3023.7	3359.6	3395.0	3207.8	3157.6	3373.9	2435.7
50°	2064.2	2087.8	2179.7	2451.9	2913.4	3462.3	3729.4	3483.0	3379.3	3553.2	2525.9
52.5°	1581.9	1618.3	1721.2	2079.5	2633.5	3411.5	3997.0	3816.6	3670.2	3739.0	2603.3
55°	997.8	1024.9	1111.4	1468.6	2106.7	3146.8	4098.5	4177.6	4047.4	3914.9	2670.4
57.5°	542.5	554.6	587.0	810.8	1370.3	2561.8	3950.5	4383.0	4328.9	4064.3	2721.0
58°	485.5	493.6	513.8	702.7	1215.3	2401.8	3884.9	4383.7	4356.7	4086.2	2724.9
60°	360.2	356.0	338.1	401.0	676.4	1659.3	3488.4	4208.3	4287.7	4113.0	2705.8
62.5°	316.5	306.4	269.8	265.6	329.0	764.4	2669.2	3604.8	3792.3	3960.1	2589.3
65°	297.3	286.5	239.3	224.1	237.4	323.4	1572.3	2703.6	2938.7	3496.7	2291.5
67.5°	283.1	269.1	219.9	199.0	200.0	213.8	630.2	1702.8	1967.4	2654.9	1782.4
70°	269.3	254.1	203.4	179.4	173.7	169.0	250.6	852.4	1092.4	1677.0	1136.4
72.5°	254.6	239.6	189.0	163.9	152.8	137.4	163.6	348.7	487.0	793.4	515.5
75°	233.2	219.7	174.5	150.1	134.4	113.8	123.6	182.1	218.4	316.0	248.4
77.5°	206.9	195.8	158.2	138.8	119.2	92.4	95.1	126.3	140.1	180.8	147.7
80°	148.7	152.6	140.8	124.8	106.1	74.9	73.0	92.1	99.5	116.2	96.1
82.5°	104.4	106.6	116.5	102.0	87.7	59.0	53.8	64.9	69.3	76.4	51.8
85°	72.0	69.5	79.9	71.0	63.4	39.3	36.9	44.0	46.7	47.4	26.8
87.5°	43.2	43.2	46.2	38.1	34.2	20.4	19.9	25.1	26.8	25.6	14.7
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°	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1	1386.1
2.5°	1389.7	1372.3	1335.2	1305.5	1267.9	1228.8	1206.9	1183.6	1167.6	1156.1	1174.5
5°	1400.3	1364.7	1288.0	1215.3	1134.9	1051.4	988.0	929.0	888.0	862.4	886.5
7.5°	1417.0	1362.2	1240.1	1115.8	971.5	832.5	708.1	630.2	584.8	562.4	576.4
10°	1436.2	1358.3	1183.8	980.9	774.5	599.3	506.4	475.0	464.6	460.5	462.4
12.5°	1452.2	1349.9	1114.8	817.7	581.6	473.2	446.5	445.7	447.9	448.4	449.2
15°	1463.5	1337.7	1012.3	647.7	465.1	431.2	429.7	434.2	438.3	440.1	441.1
17.5°	1471.1	1312.3	896.6	512.1	416.7	410.8	414.3	419.9	424.3	425.6	426.6
20°	1470.3	1275.2	758.8	427.0	390.4	390.4	396.3	400.8	401.0	399.5	400.3
22.5°	1462.7	1224.4	625.1	381.8	367.1	371.3	377.2	373.0	355.8	344.5	345.2
25°	1449.9	1163.7	510.6	353.1	345.5	352.8	351.1	319.7	295.1	284.0	284.0
27.5°	1438.6	1091.9	422.6	328.0	323.8	332.9	302.5	274.0	263.6	258.5	256.8
30°	1430.5	1014.5	363.9	303.9	303.5	296.8	262.4	254.6	252.8	248.7	247.2
32.5°	1432.5	936.2	326.3	282.8	284.5	254.1	243.3	245.0	243.5	239.1	237.1
35°	1448.7	861.7	301.7	263.6	258.5	229.5	232.0	235.1	234.7	228.5	226.5
37.5°	1477.7	791.2	285.5	247.7	225.6	217.2	221.1	226.1	224.8	220.6	219.2
40°	1508.2	724.8	272.2	235.1	206.2	208.9	212.3	215.0	216.2	217.5	216.5
42.5°	1537.9	655.6	256.0	222.4	198.0	201.0	202.5	205.2	211.8	216.5	216.2
45°	1555.6	590.4	239.3	204.2	191.7	193.4	192.4	197.8	205.9	213.5	213.8
47.5°	1575.3	539.8	226.1	187.5	185.5	186.7	183.8	189.2	196.6	205.9	206.9
50°	1599.1	509.6	215.5	174.2	177.2	177.2	176.4	181.3	191.7	202.5	204.4
52.5°	1626.1	503.7	206.6	164.6	168.8	168.6	169.3	176.7	188.0	198.5	200.3
55°	1659.0	519.7	197.1	157.5	160.7	161.7	164.1	172.5	182.1	194.1	194.8
57.5°	1697.4	552.1	189.4	151.8	153.3	156.5	160.4	168.1	178.4	191.7	192.4
58°	1703.8	559.0	188.2	151.4	151.8	155.5	160.0	167.3	177.6	192.1	192.9
60°	1704.0	581.8	185.5	149.1	146.2	152.3	157.3	164.6	176.4	193.9	195.6
62.5°	1643.6	581.6	183.5	146.0	140.3	147.9	153.6	162.2	175.2	198.0	201.5
65°	1447.2	528.5	174.2	141.0	135.6	144.0	150.4	160.4	178.6	216.2	218.4
67.5°	1132.0	433.2	156.8	134.2	129.5	140.1	148.4	160.2	182.3	220.4	221.9
70°	748.4	324.1	137.6	126.3	123.1	135.4	149.4	168.6	178.1	211.6	207.6
72.5°	388.5	227.5	122.1	116.5	115.7	131.2	163.6	167.6	174.0	199.0	194.1
75°	203.9	158.0	108.6	105.7	106.9	130.2	193.1	163.2	168.6	190.4	199.8
77.5°	124.8	127.5	97.1	95.8	98.3	127.3	192.9	157.5	160.7	175.2	185.5
80°	83.5	103.4	88.2	88.5	90.2	116.5	173.2	148.7	151.1	165.6	176.2
82.5°	52.8	61.2	80.1	84.3	82.1	96.1	147.2	135.4	138.8	189.4	200.3
85°	26.8	38.3	69.5	81.1	74.0	67.3	119.4	118.7	120.4	136.6	142.8
87.5°	12.3	21.1	54.3	70.8	55.8	42.0	86.7	88.0	94.8	97.1	97.1
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)