

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: P193519

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193519
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5723 lumens
Efficiency: N/A
Efficacy: 85.4 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): 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

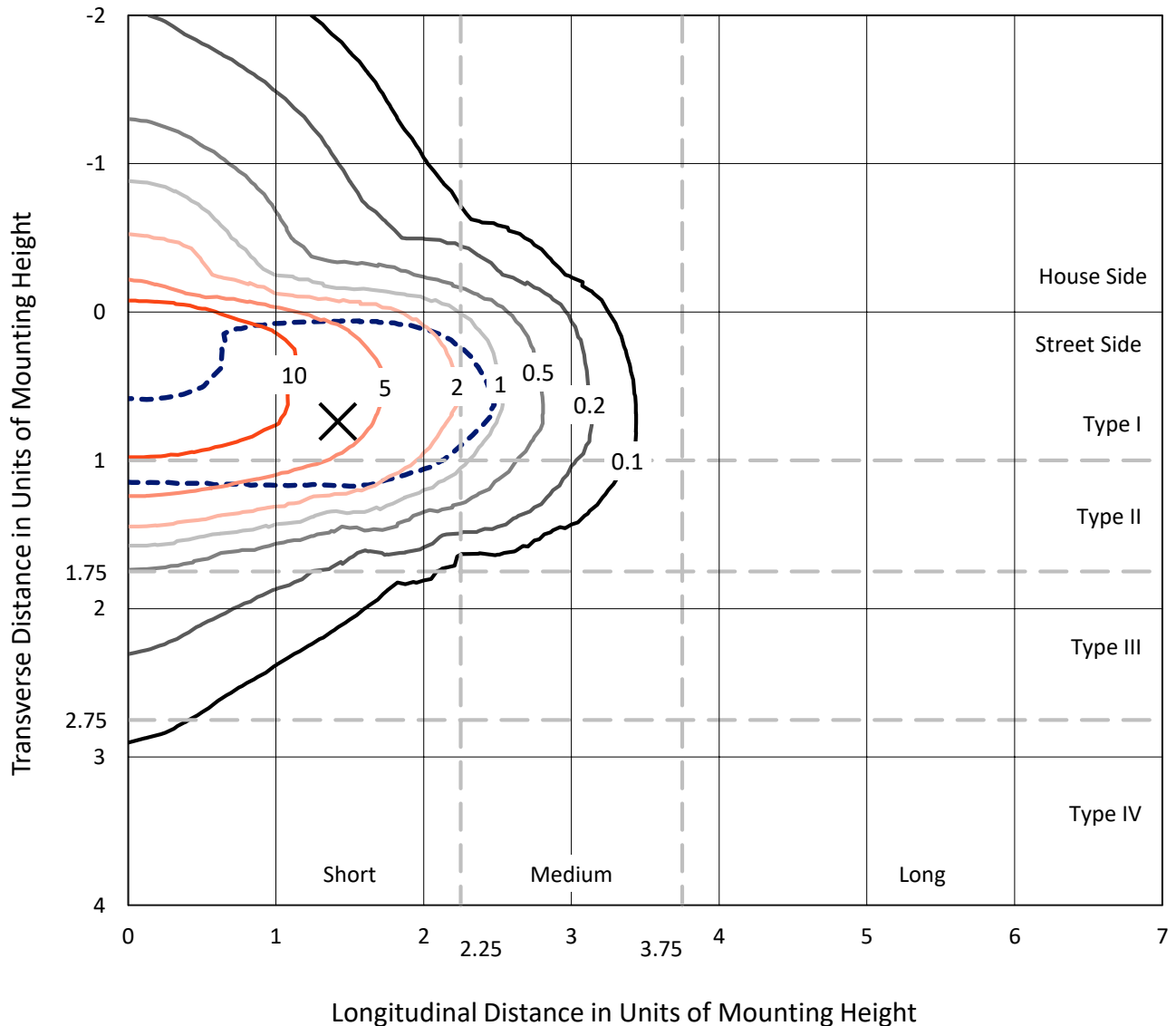


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

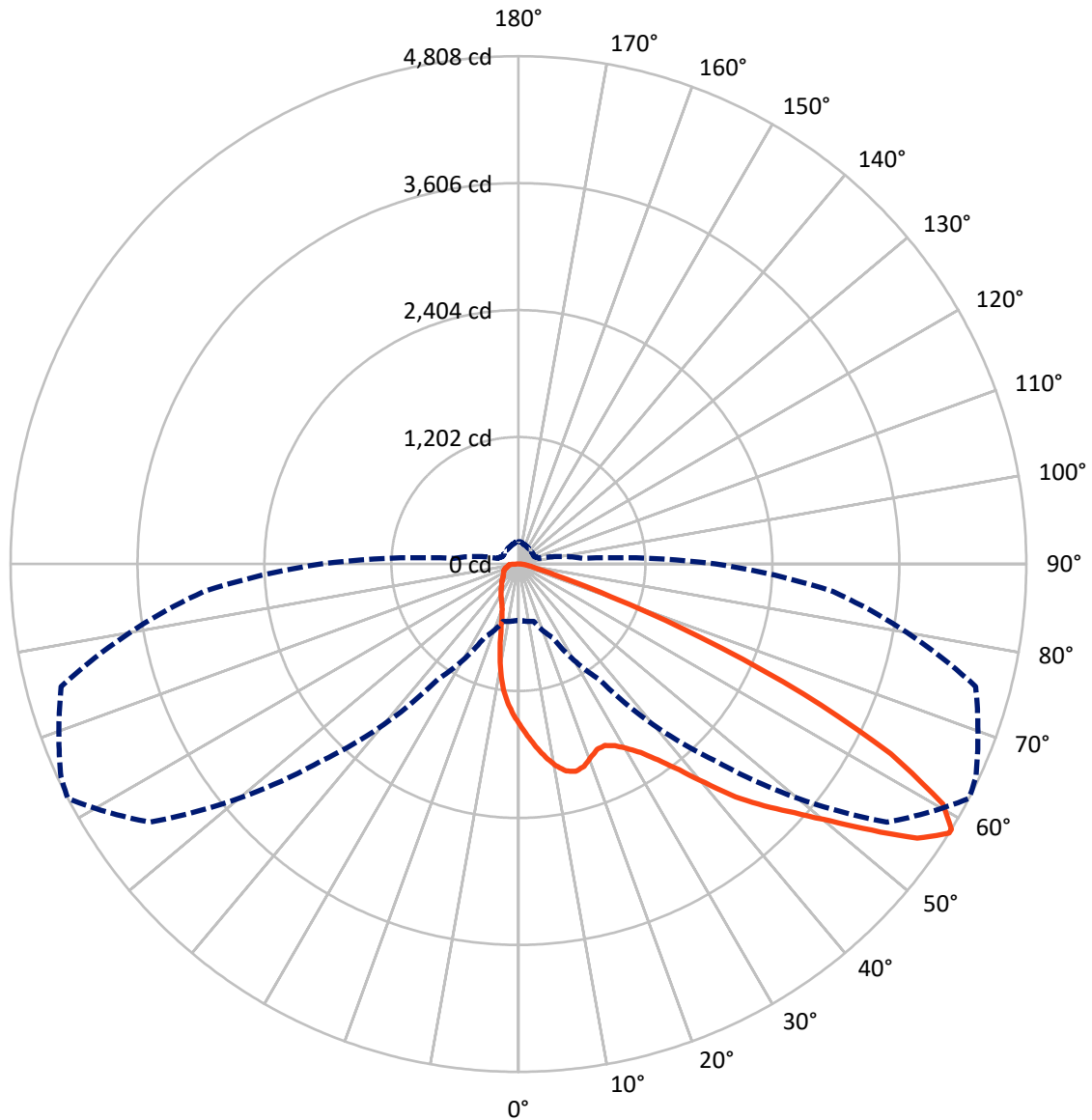


Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - Full Cutoff

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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	872.8	0.0	872.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4850.2	0.0	4850.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	5723.0	0.0	5723.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.4
10°-20°	347.5	6.1
20°-30°	561.8	9.8
30°-40°	891.9	15.6
40°-50°	1305.0	22.8
50°-60°	1364.9	23.8
60°-70°	806.4	14.1
70°-80°	227.2	4.0
80°-90°	82.5	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°	5723.0	100.0
0°-180°	5723.0	100.0



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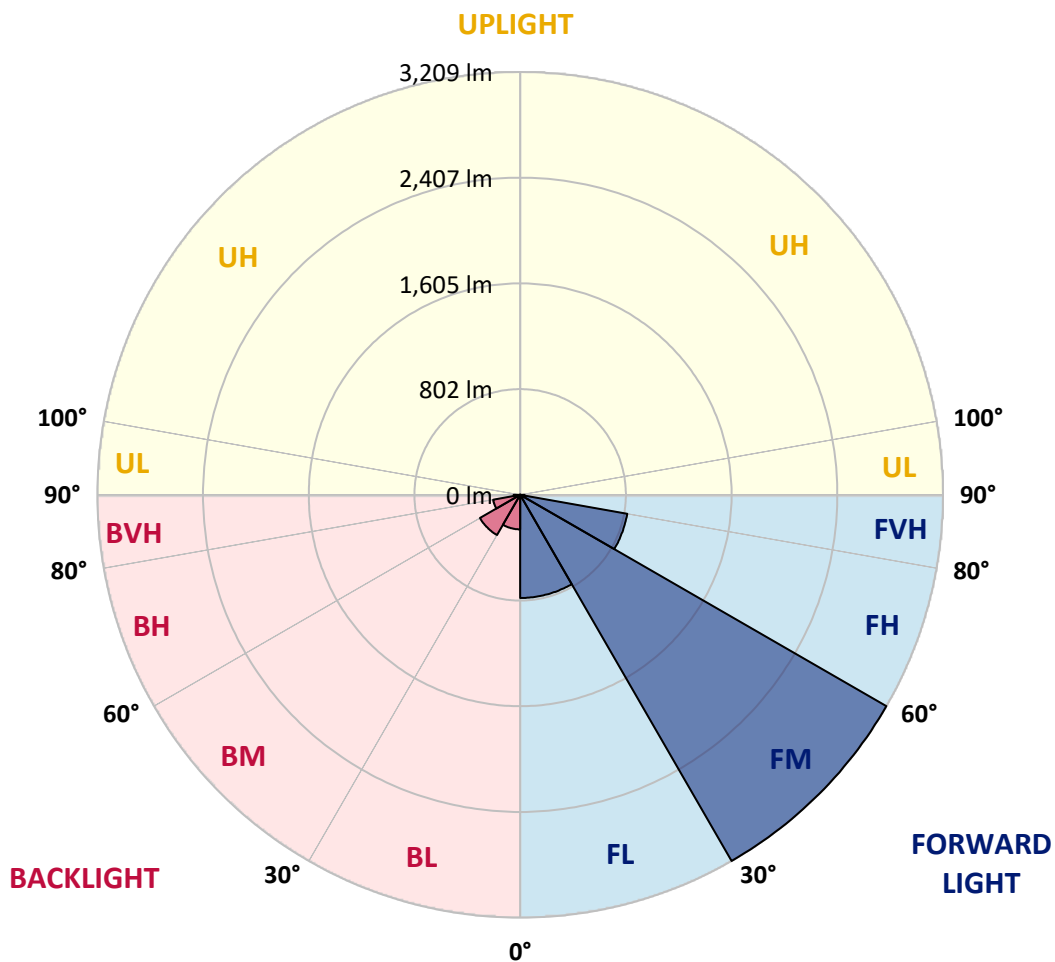
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.0	13.7			
FM	(30°-60°)	3209.4	56.1			
FH	(60°-80°)	825.3	14.4			G1/1800
FVH	(80°-90°)	32.5	0.6			G1/100
BL	(0°-30°)	262.3	4.6	B1/500		
BM	(30°-60°)	352.3	6.2	B1/1000		
BH	(60°-80°)	208.3	3.6	B1/500		G1/500
BVH	(80°-90°)	49.9	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°	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2
2.5°	1737.1	1723.1	1714.2	1706.4	1696.2	1674.3	1645.0	1626.4	1616.9	1584.9	1546.9
5°	1907.5	1895.1	1885.9	1875.4	1857.1	1822.8	1775.4	1737.7	1719.1	1654.9	1578.9
7.5°	1867.6	1872.7	1888.6	1916.4	1940.1	1935.5	1893.2	1845.2	1820.7	1731.5	1616.1
10°	1627.2	1636.1	1663.6	1728.5	1833.6	1941.4	1974.3	1941.1	1916.4	1807.2	1654.4
12.5°	1578.9	1578.7	1580.8	1598.1	1660.6	1812.3	1977.0	2010.4	1995.6	1879.4	1693.5
15°	1598.6	1599.2	1597.5	1604.8	1624.2	1684.3	1894.5	2037.1	2047.6	1952.2	1733.9
17.5°	1650.4	1649.0	1642.8	1642.8	1649.8	1673.3	1797.5	2012.3	2060.8	2016.6	1769.5
20°	1737.1	1730.9	1714.5	1699.4	1691.9	1704.5	1757.6	1955.2	2037.9	2072.9	1798.9
22.5°	1842.2	1837.4	1810.7	1778.4	1752.2	1752.0	1778.1	1905.3	1998.3	2126.0	1823.6
25°	1978.1	1970.2	1930.6	1878.9	1833.1	1815.6	1822.8	1902.9	1976.7	2183.7	1845.7
27.5°	2137.6	2123.3	2076.4	2001.8	1934.4	1899.1	1888.6	1946.8	1996.4	2255.1	1876.5
30°	2331.1	2314.7	2254.6	2157.3	2062.1	2004.2	1981.8	2024.7	2061.6	2342.1	1925.8
32.5°	2551.3	2527.6	2458.0	2350.8	2225.7	2137.3	2101.0	2127.6	2157.0	2447.0	1987.5
35°	2855.5	2827.2	2726.7	2578.8	2437.5	2316.0	2257.8	2277.2	2305.8	2603.3	2076.7
37.5°	3063.0	3050.4	2983.5	2844.5	2690.9	2551.0	2461.0	2472.3	2488.5	2798.7	2191.0
40°	3061.1	3066.3	3067.6	3069.0	2964.4	2830.5	2733.7	2721.9	2718.6	3013.2	2320.9
42.5°	2907.8	2928.8	2996.7	3134.4	3198.0	3136.6	3047.9	3013.7	2996.7	3266.0	2458.6
45°	2673.1	2684.4	2811.6	3080.6	3317.7	3439.8	3372.7	3264.9	3234.2	3498.3	2572.8
47.5°	2552.1	2564.5	2644.5	2937.7	3316.4	3684.7	3723.6	3518.2	3463.2	3700.4	2671.5
50°	2264.0	2289.9	2390.7	2689.3	3195.4	3797.4	4090.3	3820.0	3706.3	3897.1	2770.4
52.5°	1735.0	1774.9	1887.8	2280.7	2888.4	3741.6	4383.8	4186.0	4025.4	4100.8	2855.3
55°	1094.4	1124.0	1218.9	1610.7	2310.6	3451.4	4495.1	4581.9	4439.1	4293.8	2928.8
57.5°	595.0	608.2	643.8	889.3	1503.0	2809.7	4332.9	4807.2	4747.9	4457.6	2984.3
58°	532.5	541.4	563.5	770.7	1332.9	2634.3	4260.9	4808.0	4778.3	4481.6	2988.7
60°	395.1	390.5	370.8	439.8	741.9	1819.9	3826.0	4615.6	4702.6	4511.0	2967.6
62.5°	347.1	336.1	295.9	291.3	360.8	838.4	2927.5	3953.7	4159.3	4343.4	2839.9
65°	326.1	314.2	262.5	245.8	260.3	354.7	1724.5	2965.2	3223.1	3835.1	2513.3
67.5°	310.5	295.1	241.2	218.3	219.4	234.5	691.2	1867.6	2157.8	2911.8	1954.9
70°	295.4	278.7	223.1	196.7	190.5	185.4	274.9	934.9	1198.2	1839.3	1246.4
72.5°	279.2	262.8	207.2	179.8	167.6	150.6	179.5	382.4	534.1	870.2	565.4
75°	255.7	240.9	191.3	164.7	147.4	124.8	135.6	199.7	239.6	346.6	272.5
77.5°	226.9	214.8	173.6	152.3	130.7	101.3	104.3	138.5	153.6	198.3	162.0
80°	163.0	167.4	154.4	136.9	116.4	82.2	80.0	101.1	109.1	127.5	105.4
82.5°	114.5	117.0	127.7	111.8	96.2	64.7	59.0	71.1	76.0	83.8	56.9
85°	79.0	76.3	87.6	77.9	69.5	43.1	40.4	48.2	51.2	52.0	29.4
87.5°	47.4	47.4	50.7	41.8	37.5	22.4	21.8	27.5	29.4	28.0	16.2
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°	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2	1520.2
2.5°	1524.2	1505.1	1464.4	1431.8	1390.6	1347.7	1323.7	1298.1	1280.6	1268.0	1288.2
5°	1535.8	1496.8	1412.7	1332.9	1244.8	1153.2	1083.6	1018.9	973.9	945.9	972.3
7.5°	1554.2	1494.1	1360.1	1223.8	1065.6	913.0	776.7	691.2	641.4	616.9	632.2
10°	1575.2	1489.7	1298.4	1075.8	849.4	657.3	555.4	520.9	509.6	505.0	507.2
12.5°	1592.7	1480.6	1222.7	896.9	637.9	519.0	489.7	488.9	491.3	491.8	492.6
15°	1605.1	1467.1	1110.3	710.4	510.1	473.0	471.3	476.2	480.8	482.7	483.7
17.5°	1613.4	1439.4	983.4	561.6	457.1	450.6	454.4	460.6	465.4	466.8	467.8
20°	1612.6	1398.7	832.2	468.4	428.2	428.2	434.7	439.5	439.8	438.2	439.0
22.5°	1604.3	1342.9	685.6	418.8	402.6	407.2	413.7	409.1	390.2	377.8	378.6
25°	1590.3	1276.3	560.0	387.3	378.9	387.0	385.1	350.6	323.7	311.5	311.5
27.5°	1577.9	1197.6	463.5	359.8	355.2	365.2	331.7	300.5	289.2	283.5	281.6
30°	1569.0	1112.7	399.1	333.4	332.8	325.5	287.8	279.2	277.3	272.7	271.1
32.5°	1571.1	1026.8	357.9	310.2	312.1	278.7	266.8	268.7	267.1	262.2	260.1
35°	1588.9	945.1	330.9	289.2	283.5	251.7	254.4	257.9	257.4	250.6	248.5
37.5°	1620.7	867.8	313.1	271.6	247.4	238.2	242.5	247.9	246.6	242.0	240.4
40°	1654.1	795.0	298.6	257.9	226.1	229.1	232.8	235.8	237.2	238.5	237.4
42.5°	1686.7	719.0	280.8	243.9	217.2	220.4	222.1	225.0	232.3	237.4	237.2
45°	1706.1	647.6	262.5	223.9	210.2	212.1	211.0	216.9	225.8	234.2	234.5
47.5°	1727.7	592.1	247.9	205.6	203.5	204.8	201.6	207.5	215.6	225.8	226.9
50°	1753.8	558.9	236.3	191.1	194.3	194.3	193.5	198.9	210.2	222.1	224.2
52.5°	1783.5	552.5	226.6	180.6	185.1	184.9	185.7	193.8	206.2	217.7	219.6
55°	1819.6	570.0	216.1	172.7	176.2	177.3	180.0	189.2	199.7	212.9	213.7
57.5°	1861.6	605.5	207.8	166.5	168.2	171.7	176.0	184.3	195.7	210.2	211.0
58°	1868.7	613.1	206.4	166.0	166.5	170.6	175.4	183.5	194.8	210.7	211.6
60°	1868.9	638.2	203.5	163.6	160.3	167.1	172.5	180.6	193.5	212.6	214.5
62.5°	1802.6	637.9	201.3	160.1	153.9	162.2	168.4	177.9	192.1	217.2	221.0
65°	1587.3	579.7	191.1	154.7	148.8	157.9	164.9	176.0	195.9	237.2	239.6
67.5°	1241.5	475.1	171.9	147.1	142.0	153.6	162.8	175.7	200.0	241.7	243.4
70°	820.9	355.5	150.9	138.5	135.0	148.5	163.9	184.9	195.4	232.0	227.7
72.5°	426.1	249.5	133.9	127.7	126.9	143.9	179.5	183.8	190.8	218.3	212.9
75°	223.7	173.3	119.1	115.9	117.2	142.8	211.8	178.9	184.9	208.9	219.1
77.5°	136.9	139.9	106.4	105.1	107.8	139.6	211.6	172.7	176.2	192.1	203.5
80°	91.6	113.5	96.7	97.0	98.9	127.7	190.0	163.0	165.7	181.6	193.2
82.5°	57.9	67.1	87.9	92.4	90.0	105.4	161.4	148.5	152.3	207.8	219.6
85°	29.4	42.0	76.3	88.9	81.1	73.8	131.0	130.2	132.1	149.8	156.6
87.5°	13.5	23.2	59.6	77.6	61.2	46.1	95.1	96.5	104.0	106.4	106.4
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)