

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: P193119

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6488.9 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

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



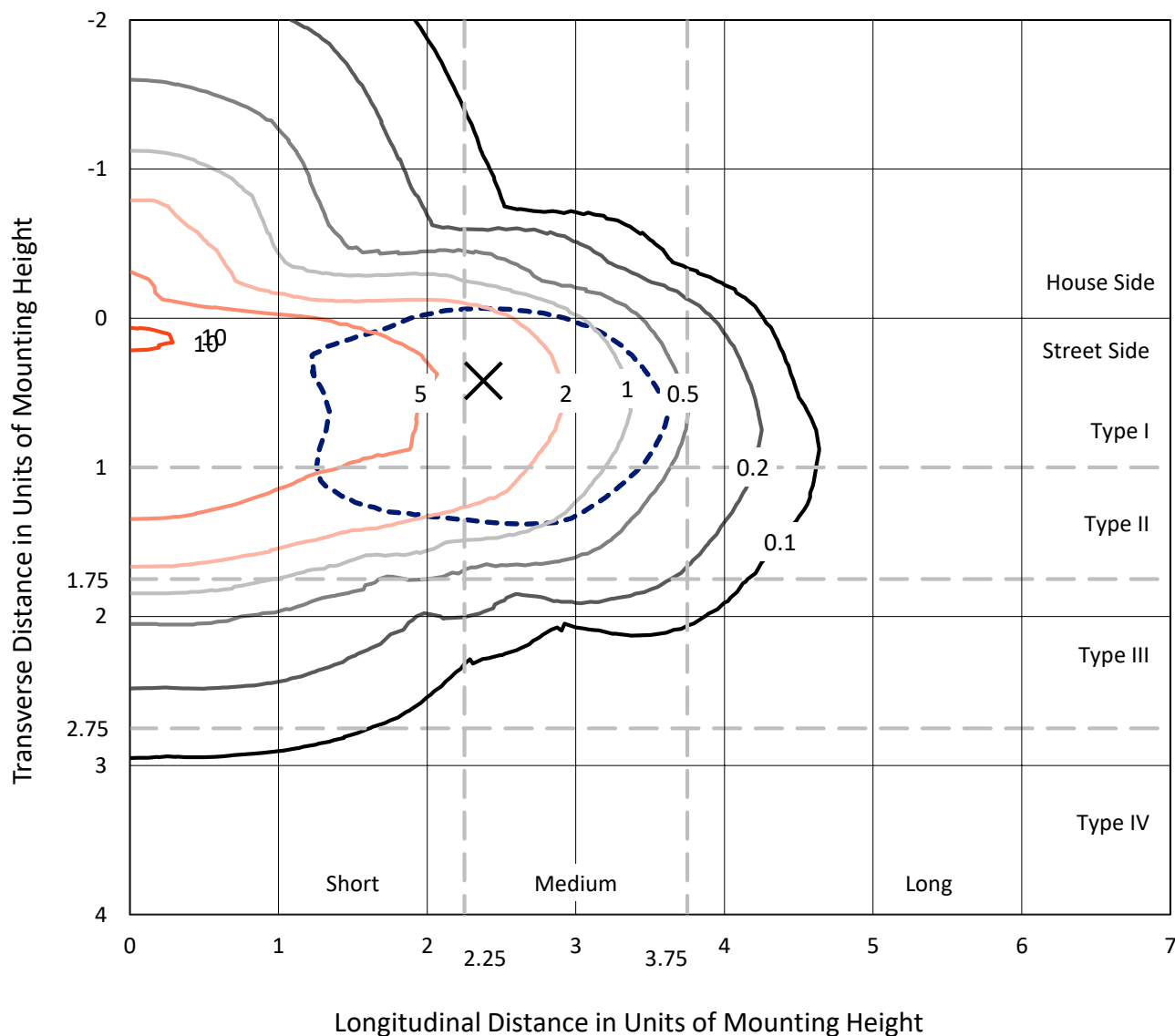
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

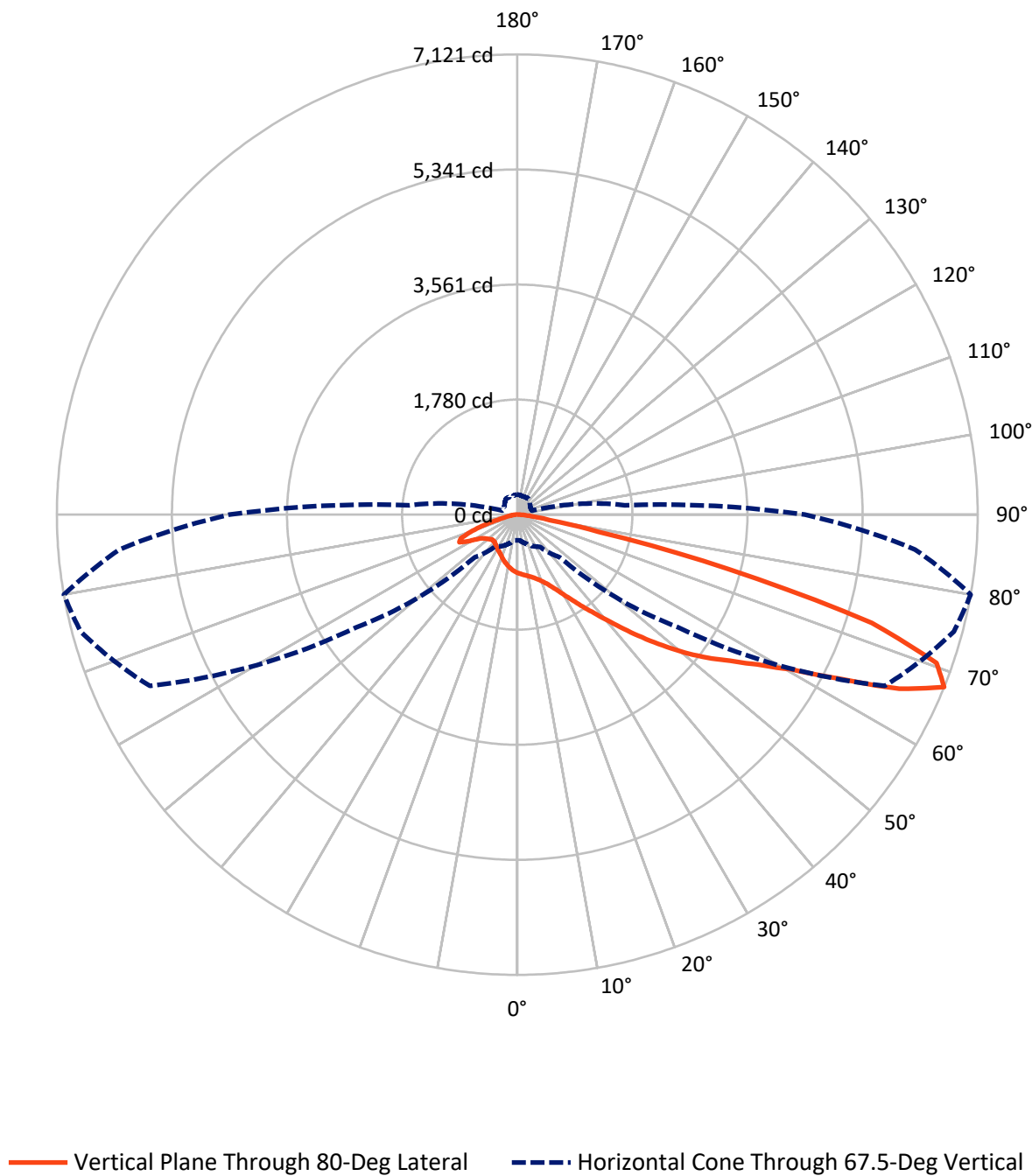


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.0	0.0	1195.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	5293.9	0.0	5293.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	6488.9	0.0	6488.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.3
10°-20°	239.6	3.7
20°-30°	396.5	6.1
30°-40°	648.6	10.0
40°-50°	1047.2	16.1
50°-60°	1511.9	23.3
60°-70°	1668.5	25.7
70°-80°	769.1	11.9
80°-90°	124.4	1.9
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°	6488.9	100.0
0°-180°	6488.9	100.0

Coefficient of Utilization



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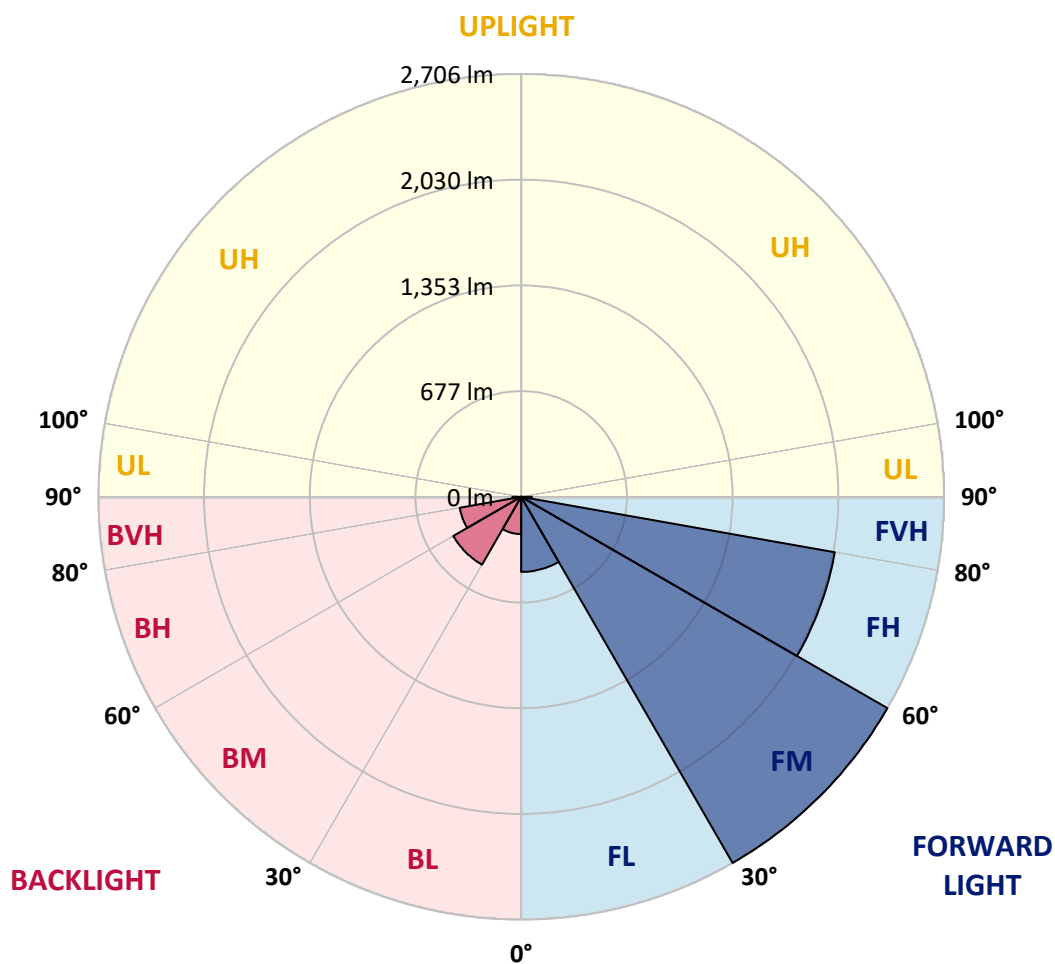
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	480.8	7.4			
FM	(30°-60°)	2706.4	41.7			
FH	(60°-80°)	2038.3	31.4			G2/5000
FVH	(80°-90°)	68.4	1.1			G1/100
BL	(0°-30°)	238.4	3.7	B1/500		
BM	(30°-60°)	501.4	7.7	B1/1000		
BH	(60°-80°)	399.2	6.2	B1/500		G1/500
BVH	(80°-90°)	56.0	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	986.2	980.4	981.3	979.7	974.9	966.6	957.7	941.4	924.6	915.6	908.5
5°	1068.5	1067.0	1064.7	1059.6	1047.5	1030.2	1008.8	980.0	949.1	932.8	917.1
7.5°	1130.2	1129.3	1126.4	1123.1	1111.3	1090.6	1058.4	1017.4	972.4	950.0	925.8
10°	1135.3	1137.0	1139.1	1147.8	1149.4	1138.3	1105.2	1055.8	996.7	967.9	937.0
12.5°	1091.9	1095.5	1104.1	1126.0	1149.4	1163.2	1146.2	1096.1	1025.2	990.3	951.0
15°	1034.3	1036.4	1046.8	1077.2	1119.1	1161.5	1177.5	1140.4	1061.9	1019.1	972.1
17.5°	1009.8	1010.7	1018.1	1038.2	1077.2	1137.9	1195.1	1188.7	1106.9	1054.8	998.0
20°	997.3	999.6	1010.1	1029.9	1054.6	1107.6	1197.6	1240.7	1160.6	1099.5	1030.6
22.5°	1032.8	1031.9	1035.7	1045.6	1066.4	1098.3	1195.8	1294.4	1228.9	1157.0	1073.0
25°	1115.5	1119.1	1112.4	1101.2	1107.9	1130.2	1205.9	1352.5	1314.5	1230.8	1128.6
27.5°	1233.4	1229.9	1220.0	1193.7	1180.1	1189.7	1239.8	1415.1	1420.9	1327.9	1202.1
30°	1351.0	1348.0	1338.5	1306.5	1278.5	1270.4	1305.6	1487.0	1547.7	1444.5	1292.2
32.5°	1473.1	1469.7	1460.9	1428.9	1395.0	1376.5	1399.2	1570.2	1697.3	1583.8	1398.3
35°	1623.5	1617.4	1598.6	1554.1	1520.9	1506.5	1517.1	1674.6	1869.8	1748.7	1527.0
37.5°	1765.0	1774.3	1755.0	1693.7	1650.6	1645.6	1657.4	1802.0	2055.7	1933.1	1675.0
40°	1907.1	1908.8	1891.5	1841.3	1796.9	1788.6	1818.3	1956.7	2275.1	2153.4	1854.7
42.5°	2054.1	2057.3	2028.2	1981.9	1949.3	1951.0	1984.8	2137.7	2526.8	2413.1	2061.7
45°	2228.3	2232.9	2201.0	2140.4	2110.7	2170.3	2156.3	2341.0	2802.9	2708.3	2299.5
47.5°	2410.3	2417.6	2393.4	2336.5	2299.5	2381.6	2327.9	2566.2	3100.0	3025.0	2560.4
50°	2509.5	2520.2	2543.8	2539.6	2531.6	2517.9	2519.2	2807.6	3406.3	3354.6	2828.7
52.5°	2456.2	2455.9	2542.3	2647.1	2758.8	2767.1	2752.5	3062.3	3692.5	3676.9	3081.4
55°	2212.2	2228.8	2359.5	2562.3	2867.7	3058.5	3101.9	3353.9	3973.6	3991.9	3338.0
57.5°	1805.8	1819.6	1995.9	2278.7	2720.8	3231.6	3599.0	3777.8	4288.0	4373.0	3679.5
60°	1224.8	1241.4	1428.2	1767.9	2325.2	3135.0	4072.1	4534.4	4664.4	4857.5	4158.6
62.5°	719.7	734.8	887.0	1115.2	1637.2	2686.9	4279.6	5610.6	5262.0	5588.8	4889.6
65°	495.5	505.7	579.8	694.2	940.8	1809.7	4022.3	6353.7	6181.8	6494.8	5737.1
67.5°	398.7	397.3	456.1	534.2	605.8	933.1	3041.6	6269.7	6990.6	7121.3	6177.0
70°	328.5	327.1	367.0	431.6	484.0	525.5	1656.7	5290.8	6825.8	6878.8	5771.8
72.5°	274.7	276.0	301.5	349.5	397.0	395.8	728.0	3721.9	5369.6	5736.4	4601.1
75°	231.9	232.6	249.4	283.3	322.4	318.8	394.9	2016.4	3121.4	3376.6	2550.5
77.5°	197.4	198.1	208.9	227.8	255.5	254.2	288.1	871.2	1302.1	1286.1	872.4
80°	176.0	176.0	181.2	184.6	200.0	194.3	213.7	418.5	550.4	508.3	348.2
82.5°	138.0	138.6	169.9	168.7	157.5	150.1	150.1	246.6	291.6	269.7	203.8
85°	77.6	77.3	109.6	132.2	138.6	105.8	104.8	138.0	158.8	140.0	98.7
87.5°	33.3	33.9	50.8	58.8	78.5	65.8	64.9	71.2	80.9	69.9	45.7
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°	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5	901.5
2.5°	901.8	893.5	875.2	852.7	832.2	818.8	806.7	789.1	790.1	777.8	768.9
5°	901.2	883.9	841.8	791.6	743.4	708.5	682.4	658.8	653.0	641.8	635.2
7.5°	901.8	873.7	802.8	722.6	662.8	618.7	596.4	584.0	581.0	577.2	577.6
10°	904.0	864.5	760.0	658.1	595.5	566.4	560.9	564.8	569.2	570.6	570.9
12.5°	909.1	856.1	713.0	600.6	553.3	544.3	553.6	566.7	575.4	579.5	579.2
15°	920.6	849.7	668.0	555.6	530.0	534.8	552.0	570.6	583.0	588.8	589.1
17.5°	933.1	840.5	621.6	521.0	512.8	524.9	546.3	568.0	583.3	589.7	591.0
20°	949.5	829.0	573.1	495.2	496.5	510.1	530.4	552.0	568.9	574.3	576.9
22.5°	970.8	816.5	530.6	474.0	477.9	488.5	504.1	523.0	537.7	540.2	542.5
25°	999.6	803.0	496.8	454.9	456.4	462.6	473.1	484.2	494.5	491.6	493.9
27.5°	1038.2	791.6	471.6	437.4	434.5	435.7	441.2	444.6	450.1	442.2	443.0
30°	1083.7	779.1	452.0	422.0	414.0	411.8	413.0	414.9	419.1	408.3	406.7
32.5°	1136.3	764.2	433.9	408.6	397.3	392.9	393.6	398.7	414.6	408.0	404.5
35°	1197.6	747.3	414.6	393.9	386.2	379.7	379.2	395.2	442.7	438.5	435.4
37.5°	1269.5	730.3	395.5	377.3	377.9	370.9	368.6	386.9	448.2	431.9	429.7
40°	1360.9	721.3	379.2	359.7	367.6	366.8	362.3	371.5	412.5	382.7	378.9
42.5°	1473.9	722.6	367.0	340.9	355.5	365.8	358.7	359.0	373.7	351.4	347.9
45°	1613.5	737.6	358.5	325.8	341.8	364.8	357.5	352.4	353.7	341.8	339.9
47.5°	1776.4	768.6	352.4	313.3	328.8	361.3	357.2	350.4	347.6	341.2	339.6
50°	1957.6	813.7	347.9	301.5	316.9	355.5	357.5	348.5	345.4	342.7	341.8
52.5°	2135.6	865.2	341.2	291.4	307.7	348.5	358.5	346.6	343.1	341.2	340.3
55°	2333.9	929.2	330.9	282.8	299.9	339.6	358.5	343.7	339.9	340.3	339.9
57.5°	2601.9	1033.1	318.8	275.4	290.7	328.8	352.4	340.6	335.8	336.1	336.4
60°	3020.8	1216.2	304.1	268.0	279.1	316.0	344.0	333.5	328.8	330.0	330.3
62.5°	3636.7	1484.9	284.9	257.2	267.0	302.2	332.5	324.6	319.8	323.0	323.0
65°	4276.9	1721.8	261.3	243.4	254.2	287.3	318.2	313.3	308.5	316.0	315.6
67.5°	4449.0	1668.8	237.6	228.5	241.5	270.5	300.9	298.4	295.8	308.5	308.0
70°	3952.2	1339.7	215.9	213.0	227.5	252.7	282.4	282.4	280.8	290.4	288.1
72.5°	3011.1	950.0	195.1	196.7	211.5	233.2	262.2	264.5	262.0	266.7	264.9
75°	1612.0	543.7	174.4	178.8	191.6	213.4	240.0	242.1	240.6	240.3	241.1
77.5°	535.7	265.8	152.8	159.7	170.9	193.0	216.6	220.1	216.3	215.7	215.3
80°	238.6	167.0	128.7	138.0	147.9	169.7	192.0	194.9	190.7	196.4	189.1
82.5°	153.3	110.0	103.1	113.4	123.0	146.3	167.3	168.0	164.2	190.7	162.6
85°	74.4	68.1	77.6	86.9	95.2	115.0	138.6	139.0	129.4	117.9	113.7
87.5°	37.0	39.7	51.8	60.1	64.3	78.8	100.9	99.0	94.8	86.2	79.5
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)