

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: P192299

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6990 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - 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

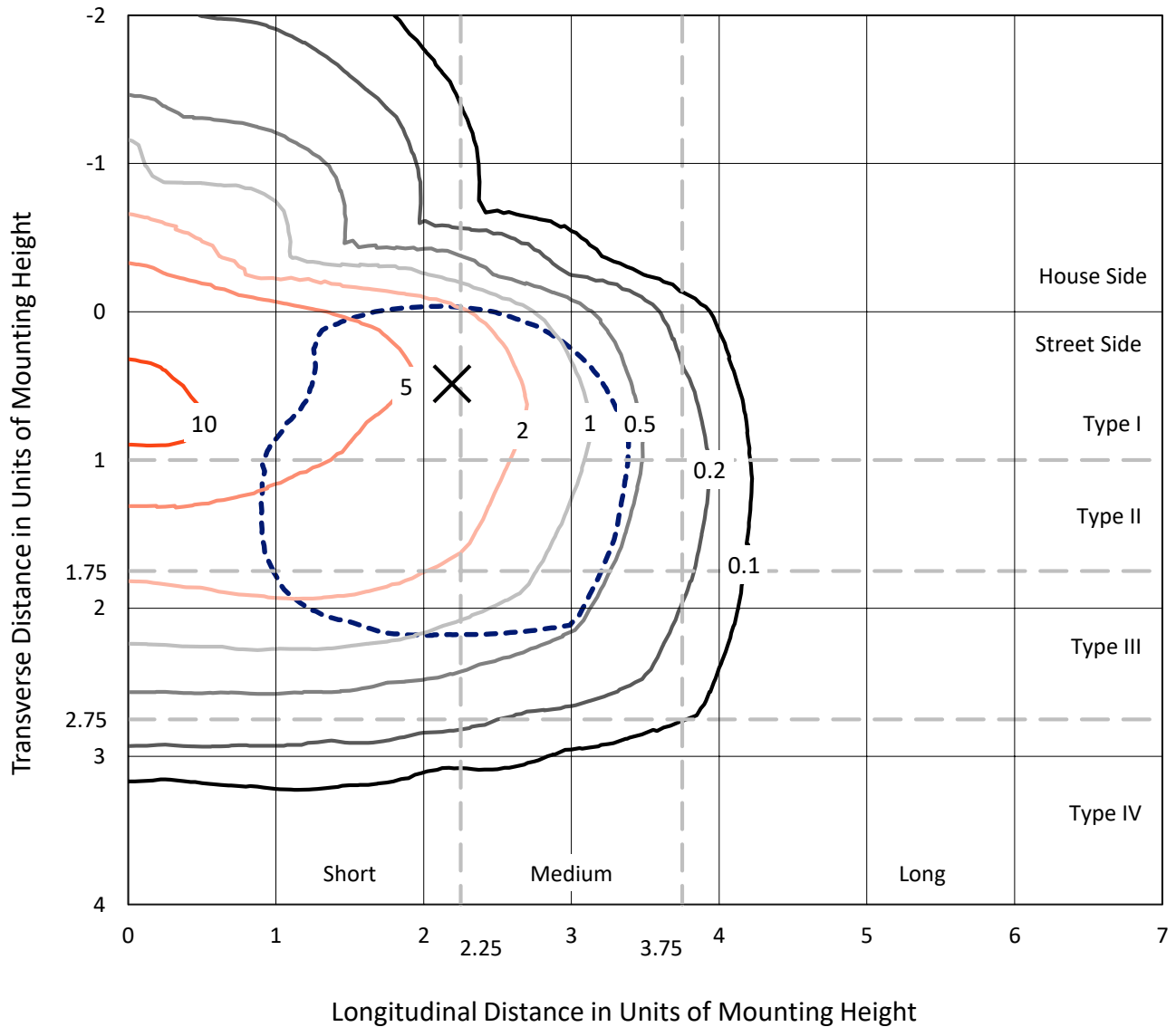


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

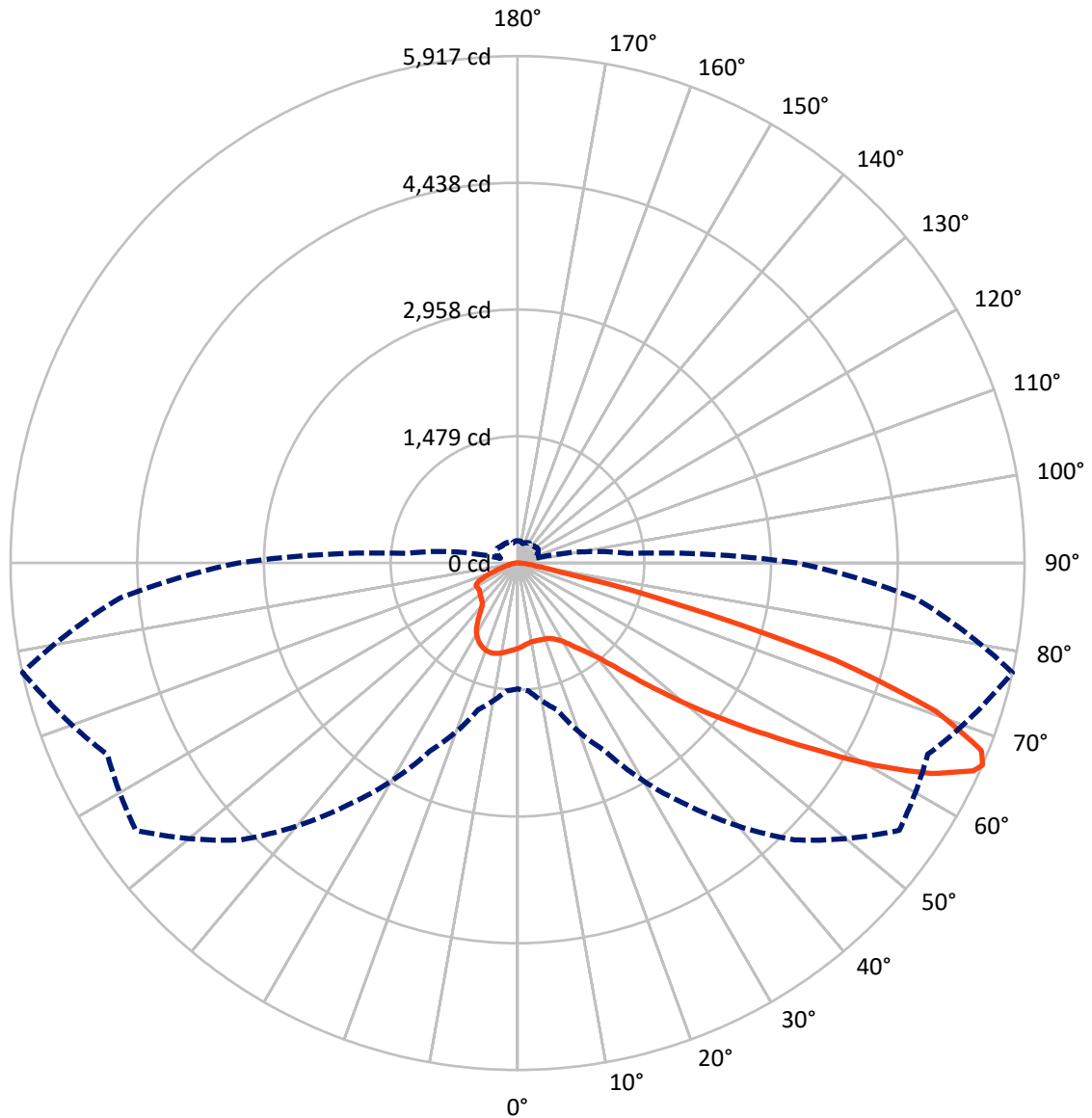


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1194.2	0.0	1194.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	5795.8	0.0	5795.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	6990.0	0.0	6990.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	1.3
10°-20°	251.1	3.6
20°-30°	428.5	6.1
30°-40°	685.9	9.8
40°-50°	1059.7	15.2
50°-60°	1503.0	21.5
60°-70°	2010.6	28.8
70°-80°	873.2	12.5
80°-90°	89.0	1.3
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°	6990.0	100.0
0°-180°	6990.0	100.0



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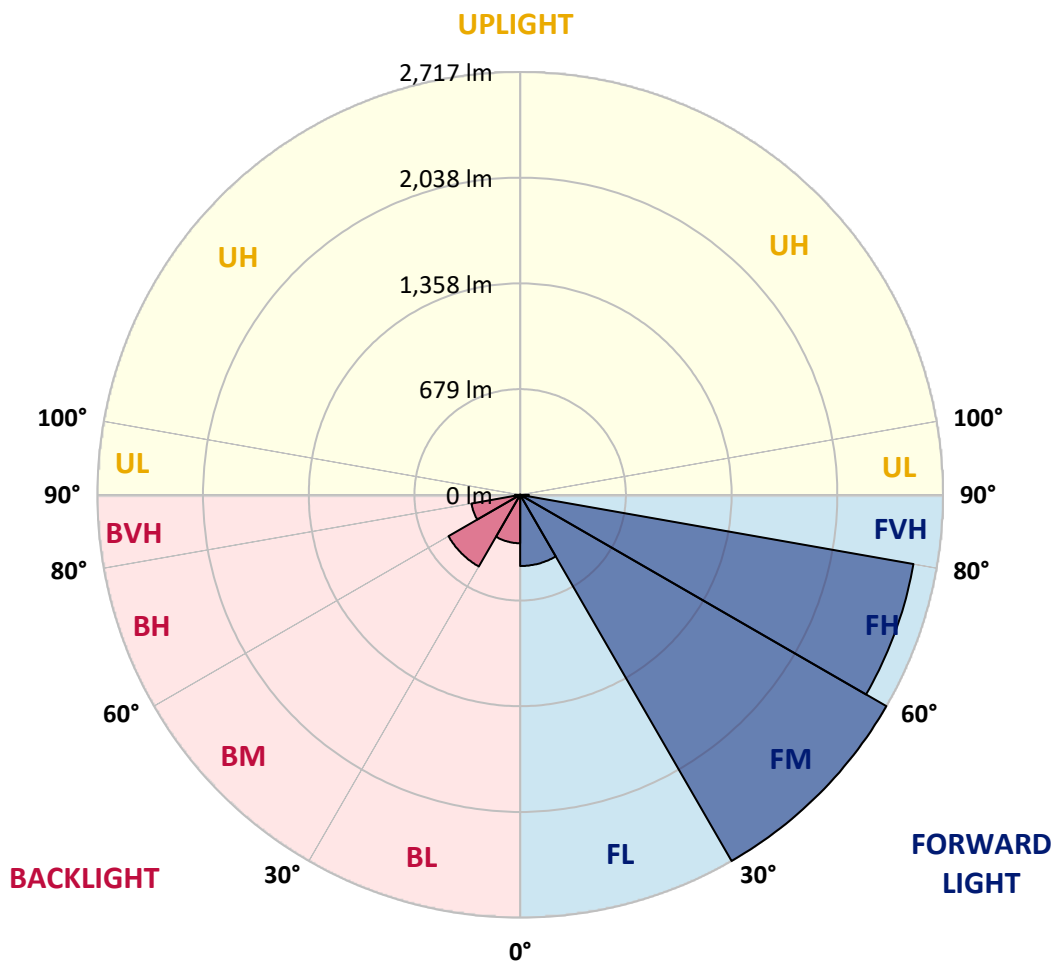
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.5	6.5			
FM (30°-60°)	2716.7	38.9			
FH (60°-80°)	2565.8	36.7			G2/5000
FVH (80°-90°)	55.8	0.8			G1/100
BL (0°-30°)	311.0	4.4	B1/500		
BM (30°-60°)	531.9	7.6	B1/1000		
BH (60°-80°)	318.0	4.5	B1/500		G1/500
BVH (80°-90°)	33.2	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	881.2	887.1	892.1	896.7	905.9	921.1	938.6	952.8	973.3	977.3	988.2
5°	800.3	800.3	804.2	811.2	823.7	846.5	870.3	902.0	946.6	957.1	986.2
7.5°	761.0	761.3	763.6	769.5	780.4	801.2	827.3	864.7	925.1	942.6	992.1
10°	775.5	772.2	767.2	764.3	765.9	778.1	802.9	844.5	911.9	934.3	1005.4
12.5°	856.7	850.5	833.3	810.5	788.7	779.8	794.3	834.9	906.3	932.4	1022.9
15°	989.5	986.9	954.8	907.6	854.8	810.5	800.6	831.3	906.9	934.7	1043.7
17.5°	1156.0	1152.3	1110.1	1041.4	955.2	869.0	822.7	834.3	909.2	938.6	1063.8
20°	1324.1	1312.8	1267.3	1185.4	1074.7	948.5	859.4	841.9	912.2	942.9	1085.0
22.5°	1449.6	1440.3	1399.4	1319.8	1192.3	1040.7	908.6	855.1	921.8	955.5	1111.0
25°	1559.9	1560.5	1519.9	1443.0	1311.2	1138.5	972.0	890.4	946.2	981.2	1146.7
27.5°	1696.3	1688.4	1650.4	1574.1	1428.8	1237.2	1048.6	939.0	982.6	1017.9	1193.6
30°	1859.4	1853.8	1809.9	1723.4	1559.2	1343.2	1136.1	995.4	1029.5	1066.1	1255.0
32.5°	2051.3	2048.7	2003.1	1891.8	1709.8	1468.1	1238.9	1070.1	1099.5	1137.5	1343.2
35°	2276.6	2276.9	2223.1	2089.3	1874.6	1613.4	1355.4	1166.2	1184.7	1224.3	1448.3
37.5°	2415.3	2432.1	2412.0	2275.6	2061.2	1775.9	1506.7	1293.7	1281.8	1321.8	1560.9
40°	2445.0	2465.5	2529.2	2459.9	2270.0	1954.9	1640.8	1416.2	1401.4	1450.2	1705.9
42.5°	2403.4	2431.8	2566.6	2615.4	2491.6	2175.5	1821.1	1598.2	1579.4	1645.1	1886.2
45°	2378.6	2399.8	2555.7	2696.4	2683.8	2424.9	2050.7	1826.7	1819.8	1906.0	2094.3
47.5°	2335.7	2354.9	2504.8	2715.2	2796.8	2653.4	2326.5	2106.2	2119.7	2232.7	2329.1
50°	2358.8	2366.7	2448.0	2667.3	2829.5	2820.9	2634.6	2429.8	2476.1	2617.1	2595.0
52.5°	2355.5	2376.0	2441.4	2588.7	2833.8	2924.3	2938.1	2790.8	2888.3	3050.1	2889.9
55°	1904.4	1942.0	2363.8	2568.9	2848.9	3025.6	3208.3	3171.3	3352.9	3541.5	3222.8
57.5°	1818.5	1842.3	2076.1	2610.5	2929.5	3219.2	3508.8	3590.1	3893.9	4112.9	3628.4
60°	1801.6	1831.0	2073.1	2661.4	3093.0	3534.6	3954.4	4097.1	4552.2	4792.0	4098.7
62.5°	1749.1	1780.8	2053.6	2654.7	3325.2	3970.9	4524.8	4636.1	5176.4	5409.6	4492.1
65°	1582.7	1612.4	1894.8	2548.1	3481.8	4436.6	5199.8	5130.2	5669.2	5844.5	4688.2
66°	1468.7	1497.8	1769.6	2422.6	3445.4	4568.7	5439.0	5283.1	5779.5	5916.9	4649.9
67.5°	1260.3	1283.1	1526.5	2141.5	3252.2	4605.7	5640.1	5398.0	5791.0	5839.6	4431.0
70°	796.3	802.9	992.1	1478.3	2461.9	3994.3	5333.9	5112.7	5313.5	5182.0	3714.6
72.5°	345.5	343.2	476.3	752.0	1393.8	2680.2	4314.7	4218.6	4168.1	3868.2	2600.3
75°	192.2	194.9	247.4	349.1	566.4	1316.5	2822.5	2701.0	2280.5	1946.0	1179.1
77.5°	154.2	157.9	205.1	247.7	254.3	459.1	1320.8	1074.7	647.0	519.2	327.6
80°	121.9	128.5	179.0	192.9	171.4	189.2	426.7	341.2	256.0	234.8	169.8
82.5°	96.4	101.1	153.6	146.0	119.9	127.5	204.4	199.2	166.5	151.6	98.1
85°	69.4	77.9	126.2	110.0	78.6	85.9	135.7	130.1	95.4	77.9	43.3
87.5°	28.4	37.0	89.2	73.0	43.9	40.0	67.7	63.7	45.2	33.0	21.5
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°	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1	996.1
2.5°	995.1	1003.0	1013.3	1019.6	1022.9	1025.2	1028.8	1028.5	1029.5	1029.8	1031.1
5°	1001.7	1014.9	1029.8	1033.8	1033.8	1030.1	1026.5	1020.5	1018.2	1017.6	1018.2
7.5°	1018.9	1033.4	1046.3	1041.7	1031.8	1017.2	998.4	981.9	973.0	970.0	969.4
10°	1040.7	1058.2	1063.5	1046.0	1016.9	981.9	944.6	917.5	902.0	897.7	896.4
12.5°	1067.1	1083.6	1076.4	1039.4	985.5	929.1	877.5	834.3	801.9	791.7	791.0
15°	1096.2	1109.1	1083.6	1018.9	938.6	855.4	763.6	689.0	648.7	635.8	634.8
17.5°	1123.3	1129.9	1079.3	983.2	869.6	734.9	613.0	555.5	541.7	545.0	545.6
20°	1146.4	1146.4	1064.8	932.0	761.0	576.0	499.0	498.1	508.0	517.9	519.9
22.5°	1171.8	1156.6	1039.4	859.7	607.0	471.3	460.1	469.3	480.5	491.4	493.1
25°	1203.2	1164.9	1004.0	750.1	477.2	428.0	432.3	439.9	445.5	452.5	453.5
27.5°	1238.2	1175.4	957.5	599.1	414.2	401.0	404.3	406.9	406.2	408.9	409.5
30°	1280.1	1187.7	893.7	468.3	388.1	377.8	371.9	369.6	369.6	373.9	375.5
32.5°	1336.3	1205.8	802.2	401.3	375.5	361.3	342.2	333.6	336.9	351.4	354.7
35°	1398.1	1225.3	678.4	378.5	372.9	353.7	324.0	308.1	308.5	322.0	326.3
37.5°	1465.4	1250.1	542.6	374.2	378.8	354.1	314.4	292.6	283.7	283.7	285.4
40°	1551.6	1275.5	439.3	377.2	391.4	358.0	309.5	280.4	255.3	256.0	257.3
42.5°	1663.9	1297.3	383.8	383.4	406.6	363.3	309.1	264.2	242.4	257.3	270.8
45°	1788.8	1308.2	359.3	389.1	418.8	366.6	303.9	261.6	244.1	288.3	314.1
47.5°	1932.4	1301.9	345.8	391.0	421.8	366.6	297.9	267.9	255.6	333.9	364.0
50°	2090.0	1283.8	332.6	387.1	420.8	365.9	303.5	274.1	259.9	341.8	362.6
52.5°	2275.3	1268.6	318.7	378.5	413.8	362.3	310.1	271.5	246.4	310.8	325.3
55°	2486.6	1272.9	303.2	366.3	402.9	355.4	307.8	260.9	232.2	273.8	282.7
57.5°	2756.8	1324.1	284.7	350.8	388.1	343.8	299.6	256.0	227.9	248.4	253.7
60°	3058.3	1413.2	261.6	335.2	369.6	325.3	293.3	258.3	229.9	246.4	249.0
62.5°	3279.6	1465.1	241.8	312.4	344.5	304.8	285.4	261.2	235.2	253.3	252.7
65°	3339.7	1379.9	217.0	279.1	310.5	283.4	275.4	264.5	237.5	258.9	256.0
66°	3255.5	1288.1	206.1	263.6	293.3	272.8	270.5	264.2	236.5	259.6	254.6
67.5°	3051.1	1099.8	187.3	240.8	265.9	257.0	262.6	261.2	233.8	258.9	252.0
70°	2488.3	750.4	160.2	200.5	221.3	226.2	247.4	250.7	225.2	247.4	232.2
72.5°	1738.6	457.1	141.7	155.6	179.0	192.9	226.6	236.1	213.7	216.0	201.5
75°	840.2	242.8	128.5	120.6	139.0	161.2	201.5	216.3	195.5	180.7	175.4
77.5°	261.9	148.3	109.0	97.1	109.0	130.1	168.4	189.6	174.1	151.3	149.3
80°	140.7	109.0	83.9	77.9	86.2	102.1	132.4	158.2	149.6	135.7	121.2
82.5°	92.8	70.7	62.1	60.4	65.7	77.9	98.4	131.1	131.1	116.3	84.6
85°	47.9	43.3	42.6	42.6	45.9	51.9	67.0	101.1	107.7	61.4	50.9
87.5°	23.8	24.8	23.1	24.1	25.8	25.4	32.0	50.9	60.8	37.3	31.0
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)