

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: P382783

Luminaire Tested: **GLEON-SA1C-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6769.6 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

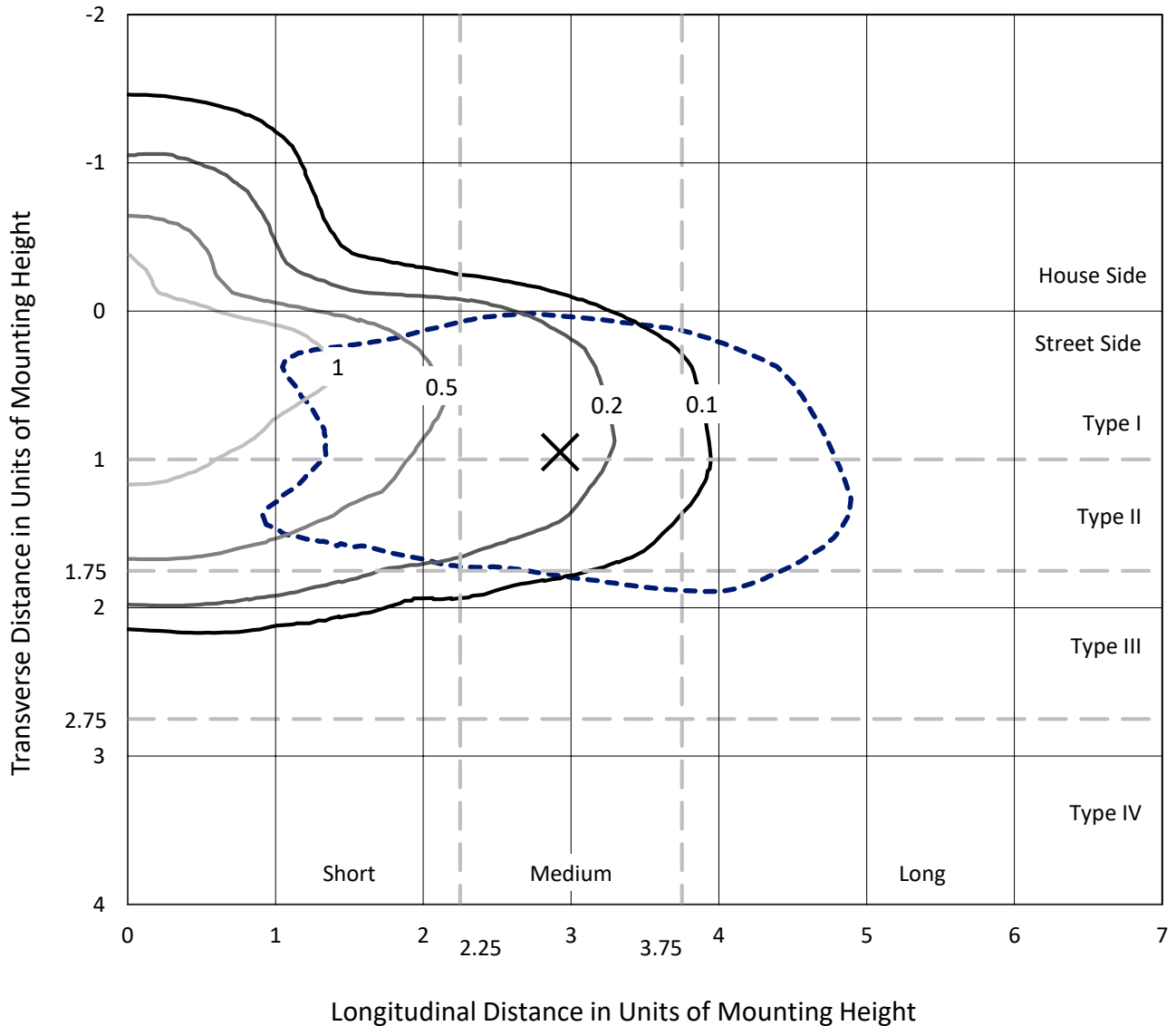
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

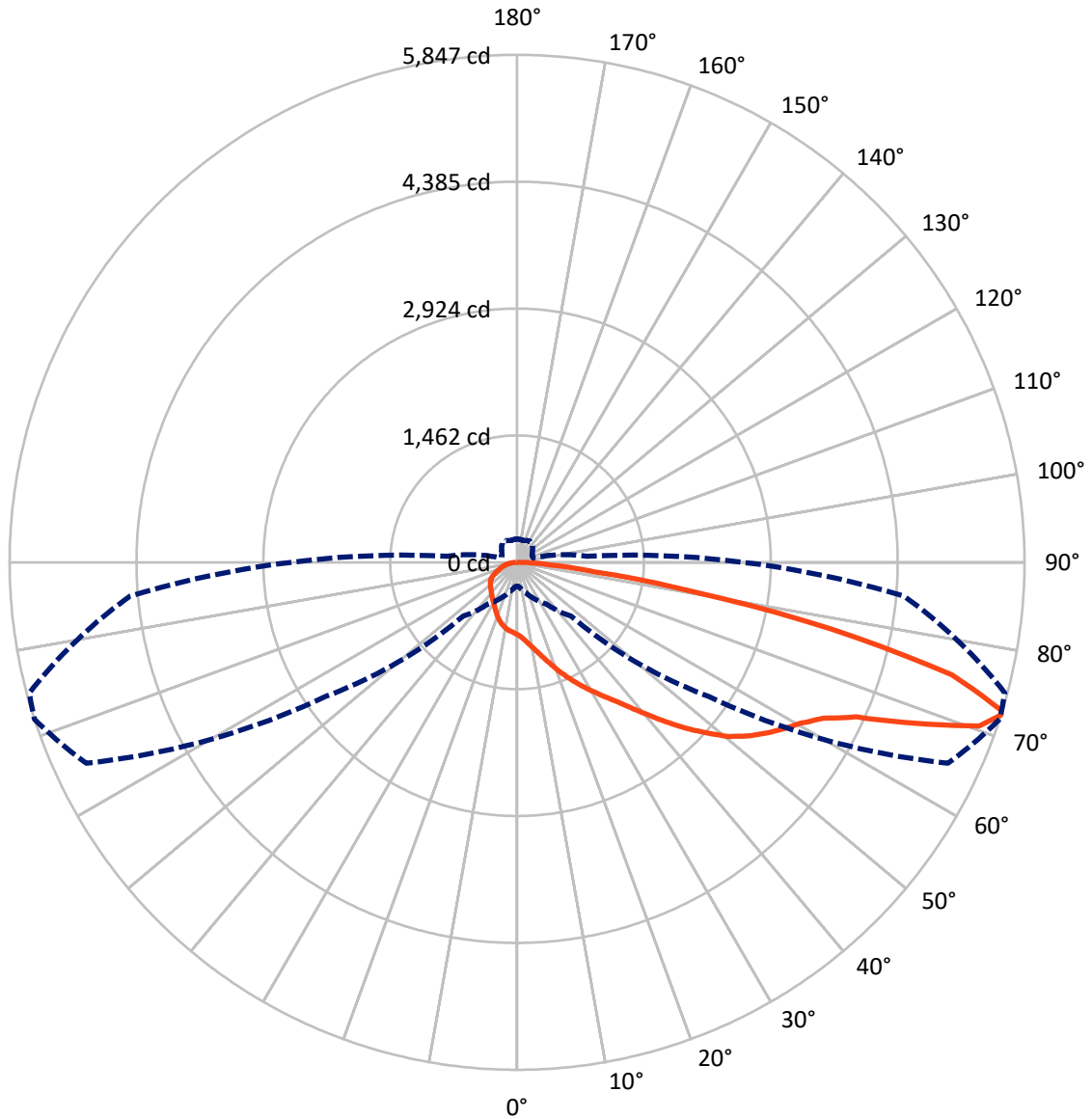
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1255.8	0.0	1255.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	5513.8	0.0	5513.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	6769.6	0.0	6769.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	1.2
10°-20°	269.7	4.0
20°-30°	472.6	7.0
30°-40°	700.7	10.4
40°-50°	1024.8	15.1
50°-60°	1410.1	20.8
60°-70°	1569.8	23.2
70°-80°	1063.7	15.7
80°-90°	174.8	2.6
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°	6769.6	100.0
0°-180°	6769.6	100.0

**Coefficient of Utilization**

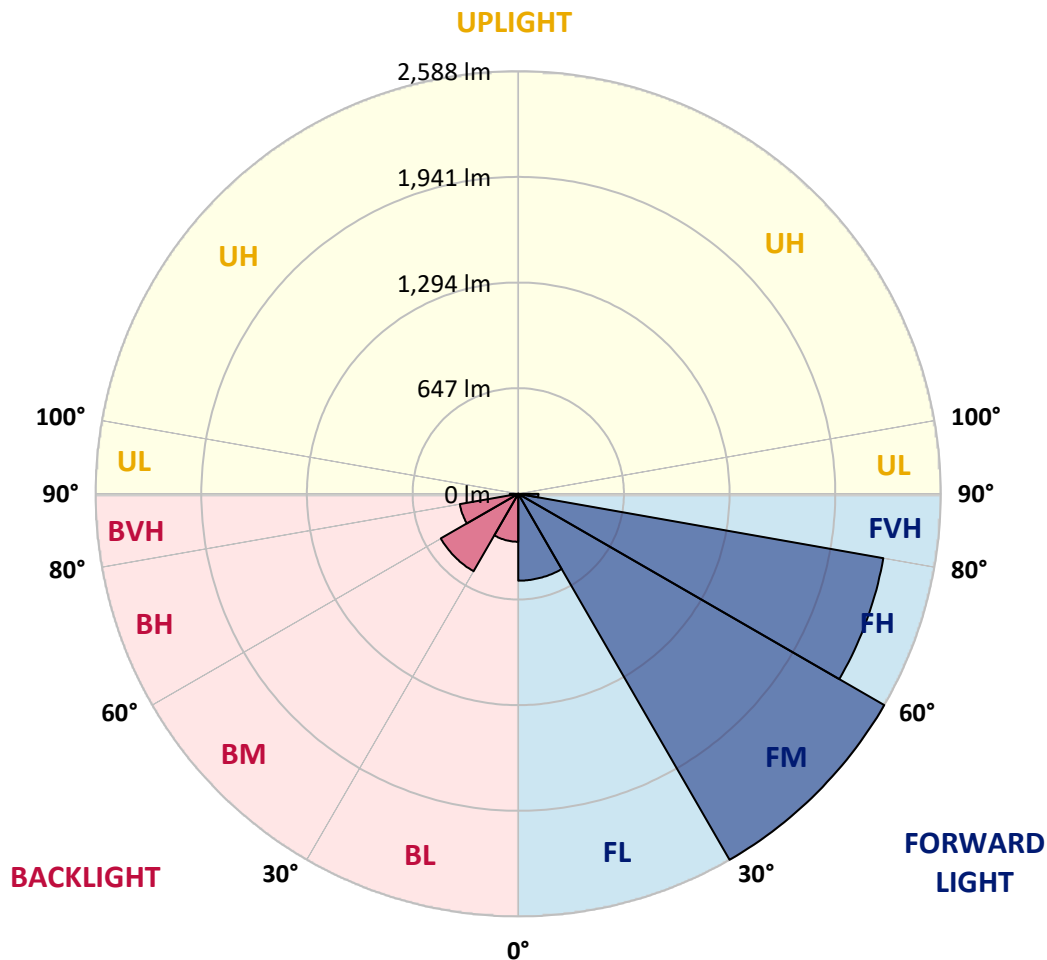


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.1	7.9			
FM (30°-60°)	2588.1	38.2			
FH (60°-80°)	2270.2	33.5			G2/5000
FVH (80°-90°)	123.3	1.8			G2/225
BL (0°-30°)	293.6	4.3	B1/500		
BM (30°-60°)	547.4	8.1	B1/1000		
BH (60°-80°)	363.3	5.4	B1/500		G1/500
BVH (80°-90°)	51.5	0.8			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	920.0	918.6	913.8	913.8	904.3	896.4	881.5	871.6	859.6	855.4	841.5
5°	1009.1	1009.5	1003.5	999.3	985.5	968.7	943.3	920.3	897.2	887.9	859.2
7.5°	1083.9	1082.9	1081.3	1077.8	1064.9	1047.7	1013.4	979.2	945.1	931.2	881.8
10°	1131.9	1134.0	1135.4	1137.0	1131.6	1119.3	1086.9	1045.2	1000.7	981.6	908.8
12.5°	1156.1	1159.9	1166.4	1177.6	1186.4	1185.0	1161.5	1117.2	1064.3	1040.3	942.6
15°	1170.3	1175.2	1185.5	1205.5	1230.5	1244.7	1238.4	1198.3	1139.4	1109.8	983.9
17.5°	1179.2	1183.2	1199.0	1225.8	1262.9	1300.6	1317.2	1283.7	1224.1	1190.4	1031.2
20°	1185.3	1188.3	1208.1	1239.6	1287.6	1347.8	1393.9	1385.5	1317.7	1273.8	1080.6
22.5°	1198.8	1201.3	1220.2	1251.9	1305.1	1382.7	1467.7	1480.3	1416.2	1366.6	1133.5
25°	1236.5	1236.5	1252.4	1274.5	1324.4	1413.0	1530.3	1586.0	1516.9	1459.2	1182.5
27.5°	1308.5	1307.9	1313.7	1321.4	1359.1	1443.8	1586.0	1679.2	1621.4	1558.2	1230.0
30°	1393.9	1398.5	1399.3	1395.6	1413.3	1482.2	1637.5	1777.6	1726.5	1658.4	1278.7
32.5°	1503.7	1506.7	1503.2	1490.8	1488.2	1536.8	1688.1	1880.6	1840.3	1763.1	1323.3
35°	1643.1	1637.2	1626.3	1601.1	1577.1	1609.7	1745.8	1983.6	1968.0	1889.6	1384.6
37.5°	1792.5	1792.7	1779.2	1722.1	1689.0	1703.0	1825.6	2100.4	2122.5	2040.3	1463.1
40°	1912.3	1918.5	1927.0	1851.9	1809.0	1828.3	1927.0	2235.8	2305.3	2218.8	1565.5
42.5°	1995.9	2003.2	2027.0	1979.9	1935.4	1971.2	2046.3	2380.3	2510.4	2424.8	1685.3
45°	2084.5	2088.5	2105.3	2085.0	2056.6	2137.4	2180.8	2530.0	2727.4	2644.4	1819.3
47.5°	2177.8	2182.0	2199.2	2185.7	2170.8	2292.6	2321.1	2671.0	2935.3	2885.7	1962.4
50°	2292.9	2295.7	2312.0	2287.5	2292.2	2409.7	2446.5	2800.3	3153.3	3102.4	2105.9
52.5°	2450.0	2450.7	2473.4	2451.2	2429.3	2495.4	2554.4	2922.3	3324.1	3300.1	2249.6
55°	2573.1	2580.6	2654.6	2650.0	2637.4	2573.3	2644.7	3038.3	3476.5	3488.0	2402.0
57.5°	2494.5	2523.7	2673.8	2779.6	2882.7	2767.0	2766.5	3169.1	3618.2	3672.3	2569.6
60°	2184.8	2224.3	2445.6	2680.3	3002.7	3104.1	3019.7	3328.8	3761.4	3855.1	2779.6
62.5°	1560.3	1625.6	1925.3	2300.2	2838.1	3327.4	3534.9	3582.2	3956.0	4066.8	3052.6
65°	788.7	838.2	1089.4	1541.0	2267.5	3181.4	4094.7	4136.9	4294.2	4392.6	3472.8
67.5°	479.2	497.9	620.5	857.1	1390.1	2478.2	4277.5	5061.6	4948.8	5000.9	4072.1
70°	353.1	366.8	443.3	569.2	799.5	1454.2	3716.6	5721.5	5647.3	5641.5	4514.9
72°	275.1	285.1	352.7	459.9	584.5	872.5	2693.8	5477.9	5847.3	5818.0	4474.4
72.5°	260.8	269.7	331.3	432.9	552.4	790.9	2422.0	5313.5	5832.9	5819.6	4422.0
75°	205.3	211.6	245.2	334.7	432.4	448.7	1327.2	4117.8	5174.4	5389.6	3977.2
77.5°	169.9	170.8	188.5	243.6	337.0	317.2	652.0	2857.0	3705.2	3941.8	2817.4
80°	138.4	139.6	148.0	170.8	255.0	234.7	309.6	1642.8	2074.5	2077.1	1339.8
82.5°	110.3	110.5	119.8	124.9	183.2	167.9	177.4	771.3	906.5	872.0	481.6
85°	77.6	76.0	117.0	102.6	119.8	107.7	97.9	305.4	374.9	358.5	150.8
87.5°	25.9	26.8	52.0	66.4	70.0	61.1	43.6	117.0	141.5	140.3	47.8
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°	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8	832.8
2.5°	837.0	829.5	818.6	806.5	796.9	787.2	779.9	776.2	772.0	768.5	772.7
5°	845.8	831.9	808.6	785.8	769.0	754.1	743.3	737.7	732.6	729.1	729.6
7.5°	860.4	837.7	798.5	765.3	741.9	725.9	714.9	711.1	707.9	707.0	708.2
10°	875.7	842.4	785.3	741.0	714.4	701.2	696.2	698.8	701.2	703.2	705.6
12.5°	893.2	846.6	765.9	712.5	689.9	684.8	689.7	700.9	709.1	713.9	717.0
15°	916.1	850.3	743.6	684.1	668.9	674.8	691.3	710.7	724.9	734.0	735.4
17.5°	937.0	850.0	714.9	655.4	652.0	668.9	693.9	721.2	740.3	753.2	755.7
20°	958.7	843.8	681.5	627.5	634.7	662.7	695.1	727.9	751.0	765.9	769.5
22.5°	979.0	832.8	645.0	602.1	620.2	654.3	690.6	724.0	747.1	759.2	762.9
25°	992.8	813.7	607.9	580.6	607.5	644.1	676.2	703.0	720.3	726.3	727.3
27.5°	999.7	788.7	572.9	562.0	594.1	627.2	649.4	662.7	667.5	667.1	666.1
30°	1000.7	756.0	542.9	546.8	578.8	602.5	613.1	610.4	604.2	593.5	594.4
32.5°	997.6	718.9	517.7	532.4	559.2	572.4	572.9	560.6	543.8	526.8	522.1
35°	998.5	682.5	495.6	516.1	535.5	541.2	535.9	517.7	494.8	472.9	468.3
37.5°	1008.8	650.8	476.4	497.2	509.1	510.5	502.8	483.7	466.9	445.5	443.6
40°	1033.3	628.1	458.2	475.9	482.7	483.5	472.5	459.0	460.4	448.9	448.7
42.5°	1077.3	618.4	442.2	453.8	458.0	459.4	451.1	442.4	454.5	447.0	444.5
45°	1134.3	620.7	428.7	432.1	439.9	446.4	441.3	430.7	435.4	403.0	392.3
47.5°	1199.9	635.6	417.9	413.5	426.8	439.1	431.2	415.4	398.8	366.7	360.6
50°	1276.9	658.7	408.1	395.1	412.6	429.4	421.4	398.8	373.9	358.3	356.1
52.5°	1357.1	686.9	398.3	374.9	394.6	421.9	417.9	395.1	364.3	349.0	346.2
55°	1448.0	715.3	386.0	351.3	375.3	418.4	416.3	381.6	357.1	348.5	346.3
57.5°	1561.0	747.8	369.6	326.8	357.1	405.8	399.3	373.4	349.6	343.1	342.4
60°	1708.4	795.5	346.2	300.7	335.0	386.5	385.1	361.5	337.8	333.1	332.2
62.5°	1929.3	874.5	313.7	274.6	310.2	353.6	366.4	345.4	325.2	324.9	325.4
65°	2272.0	993.4	278.5	251.7	285.3	325.9	344.8	328.9	312.3	317.0	317.7
67.5°	2669.2	1092.1	244.1	229.3	259.9	299.5	325.2	312.3	295.3	307.4	307.7
70°	2801.3	1003.9	213.8	207.2	233.5	274.2	304.0	294.2	276.9	289.1	287.8
72°	2606.8	810.4	194.1	190.4	213.8	253.1	285.1	277.1	260.1	268.3	265.2
72.5°	2545.5	772.7	189.3	186.2	208.4	247.8	280.2	272.9	255.9	262.9	260.1
75°	2270.7	671.1	162.7	163.4	181.8	221.7	252.6	250.3	232.9	233.5	232.6
77.5°	1647.0	492.0	137.0	141.7	154.7	194.9	225.0	223.6	204.4	200.9	200.2
80°	764.3	251.1	111.7	113.7	127.2	162.9	191.8	189.9	174.6	170.2	167.6
82.5°	261.8	119.3	83.9	85.3	98.6	131.3	166.5	165.3	152.4	143.8	138.4
85°	93.4	59.4	58.8	57.4	70.4	103.2	144.9	138.7	119.8	102.1	101.6
87.5°	30.3	25.4	30.3	30.1	41.0	70.0	105.4	89.7	86.9	72.3	70.9
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)