

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: P382759

Luminaire Tested: **GLEON-SA1B-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5576.2 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

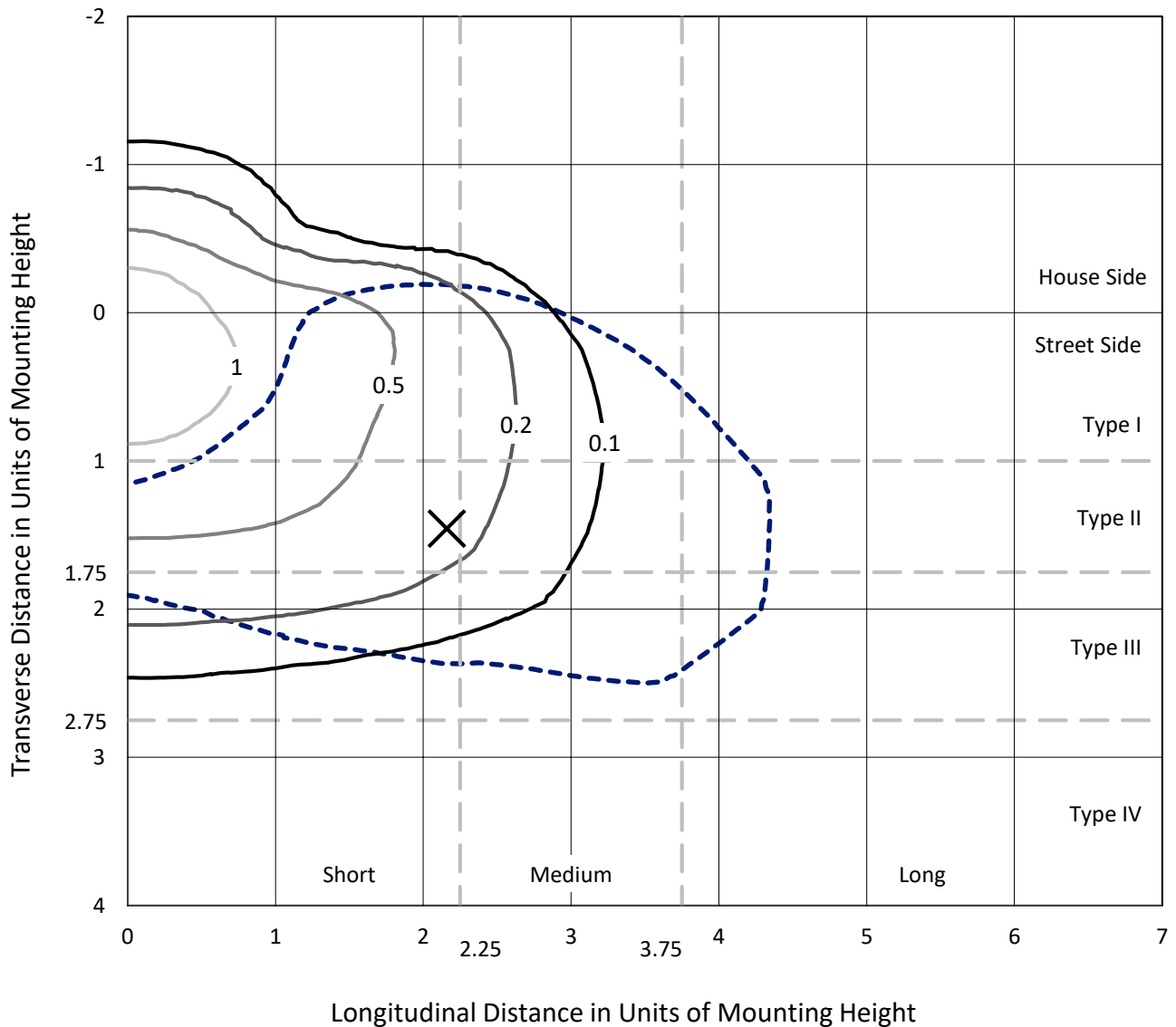
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

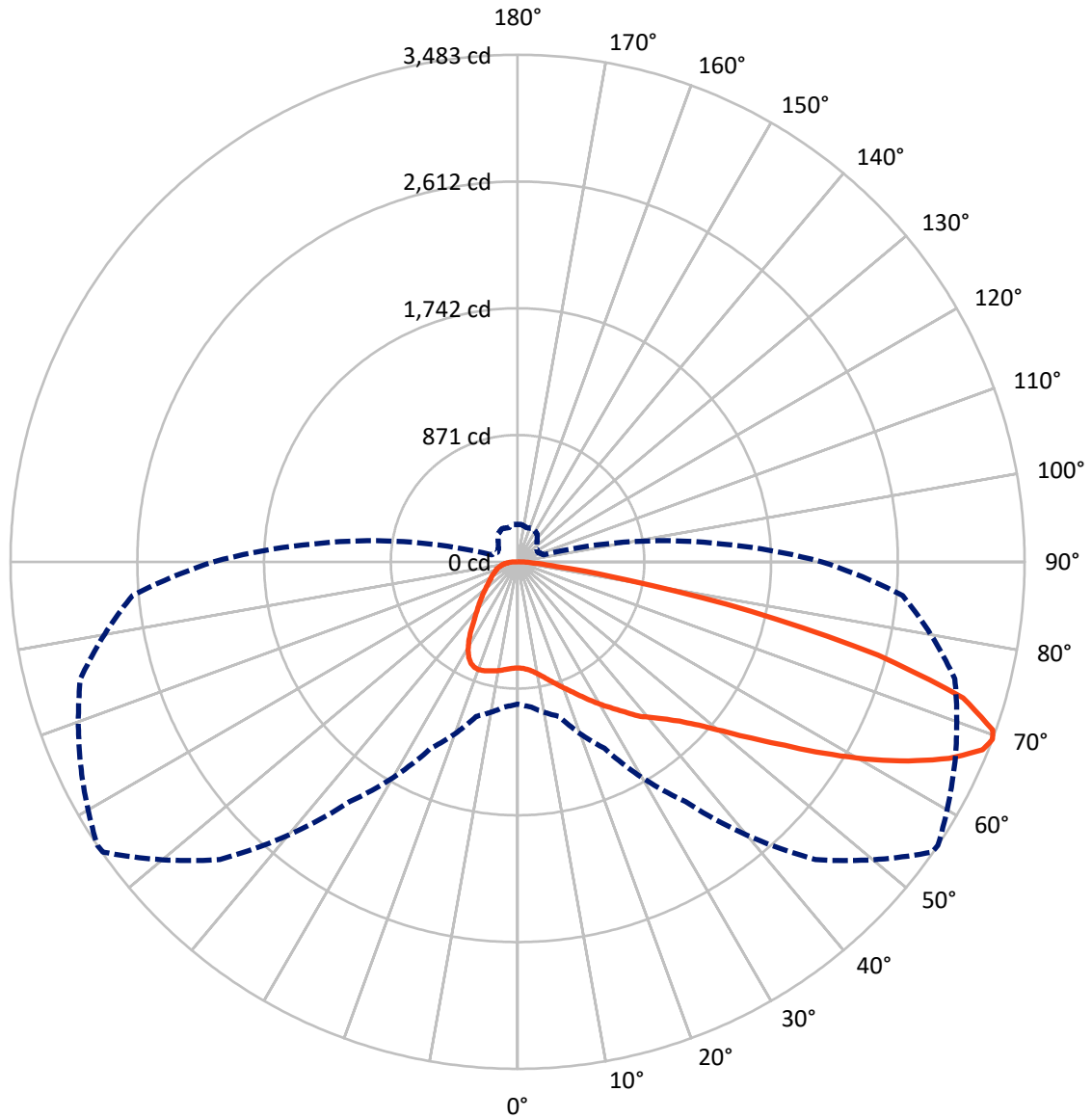
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1241.8	0.0	1241.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	4334.4	0.0	4334.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	5576.2	0.0	5576.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.3
10°-20°	230.2	4.1
20°-30°	401.9	7.2
30°-40°	577.3	10.4
40°-50°	799.0	14.3
50°-60°	1170.6	21.0
60°-70°	1427.2	25.6
70°-80°	789.1	14.2
80°-90°	109.3	2.0
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°	5576.2	100.0
0°-180°	5576.2	100.0

**Coefficient of Utilization**



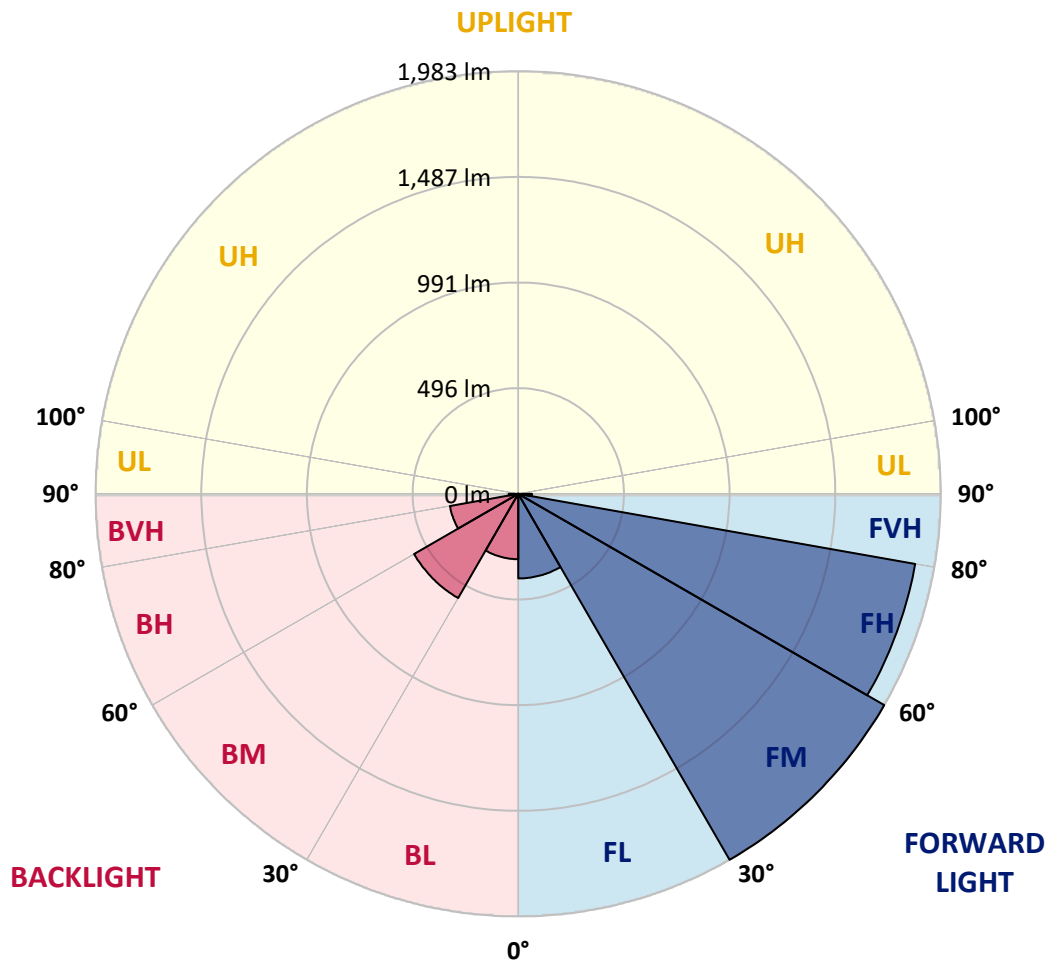
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.9	7.1			
FM (30°-60°)	1982.6	35.6			
FH (60°-80°)	1890.6	33.9			G2/5000
FVH (80°-90°)	64.4	1.2			G1/100
BL (0°-30°)	306.9	5.5	B1/500		
BM (30°-60°)	564.4	10.1	B1/1000		
BH (60°-80°)	325.6	5.8	B1/500		G1/500
BVH (80°-90°)	44.9	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
2.5°	733.6	734.4	733.8	735.4	733.6	734.8	733.8	733.8	733.2	731.5	729.6
5°	745.1	746.7	745.7	747.3	745.1	745.5	743.8	743.8	742.1	738.4	734.6
7.5°	763.2	764.9	764.1	765.7	762.8	762.8	760.5	760.3	756.9	750.9	746.4
10°	784.7	787.1	786.2	788.6	786.2	787.1	784.7	784.7	780.1	771.7	766.1
12.5°	816.0	818.9	816.8	816.6	815.7	817.2	815.3	814.9	810.6	799.1	791.4
15°	857.9	860.9	856.6	856.2	850.8	850.2	850.2	849.7	847.0	833.1	820.4
17.5°	906.1	907.0	903.2	897.1	890.2	885.7	885.2	886.7	886.7	870.6	850.4
20°	953.3	955.1	952.0	945.1	936.3	929.8	925.1	928.2	928.0	908.8	880.2
22.5°	1004.9	1008.9	1004.3	995.5	985.1	977.8	969.7	972.4	972.6	949.0	909.4
25°	1071.6	1067.8	1064.9	1052.5	1037.7	1030.2	1022.7	1025.4	1024.6	992.2	939.6
27.5°	1130.5	1131.3	1127.5	1114.1	1097.1	1080.5	1080.1	1081.9	1079.0	1037.1	968.0
30°	1199.1	1199.5	1194.1	1182.1	1163.5	1142.2	1137.2	1140.1	1134.0	1079.8	998.0
32.5°	1267.3	1269.2	1263.3	1248.8	1233.8	1207.9	1197.9	1199.8	1184.5	1123.4	1028.9
35°	1327.0	1329.7	1327.7	1318.1	1301.8	1279.6	1267.6	1266.5	1247.4	1176.8	1069.8
37.5°	1387.9	1390.4	1388.3	1380.2	1373.7	1350.1	1343.8	1343.8	1310.7	1231.3	1121.9
40°	1450.5	1454.3	1451.9	1440.7	1435.1	1424.4	1409.2	1405.6	1369.8	1296.8	1206.7
42.5°	1508.7	1513.8	1523.7	1517.2	1505.8	1507.4	1476.9	1474.9	1448.8	1393.7	1313.4
45°	1591.4	1598.6	1615.6	1610.6	1608.2	1599.7	1563.5	1561.7	1551.8	1523.9	1445.8
47.5°	1681.4	1691.4	1722.0	1722.9	1747.7	1731.7	1682.4	1676.4	1678.7	1679.9	1607.3
50°	1764.4	1775.3	1825.5	1849.1	1907.5	1911.0	1832.1	1826.7	1835.7	1862.2	1795.6
52.5°	1830.7	1844.6	1907.2	1980.1	2080.2	2108.7	2016.2	2012.2	2018.9	2064.7	2008.4
55°	1879.3	1894.3	1962.5	2095.4	2255.2	2305.4	2228.4	2224.4	2228.7	2286.9	2239.8
57.5°	1890.7	1894.3	1993.2	2173.0	2402.9	2523.4	2487.9	2480.2	2459.4	2510.1	2495.3
60°	1837.4	1852.0	1967.8	2200.3	2517.2	2738.4	2759.1	2749.5	2691.2	2732.8	2720.9
62.5°	1729.4	1755.6	1873.2	2158.8	2562.0	2913.9	3025.1	3013.6	2913.3	2940.2	2883.0
65°	1553.1	1564.3	1687.8	2015.7	2505.1	3026.3	3262.4	3256.6	3130.5	3088.4	2912.9
67.5°	1237.7	1258.6	1363.5	1716.6	2272.5	3013.1	3445.9	3445.2	3272.2	3143.3	2806.8
69°	977.8	999.5	1099.4	1414.0	2010.8	2891.8	3476.5	3483.3	3312.1	3109.9	2655.0
70°	779.5	804.7	873.2	1191.0	1778.6	2732.0	3451.0	3463.1	3304.5	3054.7	2514.9
72.5°	331.7	352.1	400.9	614.0	1084.0	2040.1	3155.4	3201.1	3126.4	2795.8	2078.5
75°	144.9	151.2	173.3	250.3	481.2	1110.3	2472.0	2556.4	2673.3	2363.1	1548.3
77.5°	106.0	108.7	120.8	147.0	215.9	419.4	1589.6	1638.8	1927.9	1719.6	949.7
80°	82.1	83.9	93.3	108.0	141.0	169.6	724.9	767.2	1084.0	883.3	395.5
82.5°	65.3	66.7	73.2	79.6	97.4	102.7	240.7	267.0	400.1	244.0	104.7
85°	60.7	62.2	64.6	58.0	62.4	60.4	104.1	108.9	120.8	95.9	43.8
87.5°	27.5	32.5	64.0	45.2	33.3	26.5	42.7	44.5	50.1	50.3	19.4
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°	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
2.5°	730.7	730.1	731.1	728.8	731.7	731.5	730.5	730.9	732.8	732.7	732.8
5°	735.2	734.8	735.9	734.2	737.7	738.8	739.0	740.8	742.8	743.4	743.4
7.5°	746.3	746.3	746.9	744.6	746.9	746.7	745.7	747.5	749.5	749.8	749.5
10°	765.5	765.7	764.7	758.7	756.9	751.7	746.9	747.1	749.8	751.9	752.4
12.5°	789.7	788.9	784.7	773.7	765.7	755.1	750.2	750.0	752.6	754.4	754.9
15°	817.3	815.3	804.3	786.4	772.3	761.8	753.8	751.9	750.4	748.4	748.6
17.5°	843.5	838.7	820.4	795.6	780.7	766.8	751.3	738.8	730.1	725.2	723.6
20°	870.0	860.6	834.3	804.3	785.3	760.1	730.1	704.8	689.1	681.8	680.4
22.5°	894.2	879.0	847.1	813.3	781.7	737.5	690.4	653.5	631.6	621.8	622.6
25°	917.9	896.7	860.6	819.7	763.2	697.5	635.0	589.8	564.4	553.4	553.1
27.5°	938.6	914.6	875.2	814.5	728.8	640.6	569.5	525.4	504.2	494.8	493.3
30°	962.4	937.0	894.6	794.7	678.4	575.0	505.6	474.4	459.5	450.1	448.4
32.5°	991.4	967.6	910.6	758.7	614.2	506.4	455.6	433.9	420.3	409.8	407.8
35°	1033.6	1007.9	914.6	707.3	543.5	452.2	419.0	396.7	378.2	364.6	363.2
37.5°	1086.7	1058.4	905.4	640.6	474.9	417.1	388.5	361.0	336.9	317.8	314.7
40°	1163.1	1120.5	879.8	563.8	424.3	389.9	358.6	327.3	297.5	275.1	270.7
42.5°	1255.0	1193.3	840.6	487.4	387.2	362.5	329.0	290.3	261.9	245.9	243.6
45°	1371.8	1269.0	786.2	420.5	350.7	335.0	297.2	261.5	243.8	232.0	230.1
47.5°	1505.1	1353.9	729.2	366.1	319.8	309.3	271.6	248.5	234.6	225.3	223.6
50°	1669.0	1449.8	668.7	321.6	288.7	278.3	259.5	241.5	230.3	223.2	221.5
52.5°	1853.8	1557.9	625.1	286.5	263.0	255.5	253.2	237.6	228.6	223.2	221.5
55°	2052.8	1667.9	578.0	256.8	240.7	242.9	249.0	238.0	231.9	225.3	222.8
57.5°	2251.9	1781.7	525.6	231.9	223.0	233.4	246.1	238.8	233.6	227.3	225.0
60°	2409.4	1853.8	444.3	210.9	209.0	223.0	239.1	233.0	226.3	226.5	226.1
62.5°	2483.0	1849.9	354.6	192.3	195.0	209.0	228.0	223.9	218.4	225.9	226.5
65°	2441.8	1757.7	276.0	175.4	180.0	194.4	216.5	219.6	221.5	235.9	237.8
67.5°	2268.5	1578.2	213.8	160.6	166.4	184.4	217.6	239.1	241.6	256.8	256.6
69°	2089.3	1410.0	185.8	152.9	159.7	186.9	232.6	251.6	242.2	258.4	256.1
70°	1939.0	1276.9	170.8	147.7	156.6	191.3	242.6	251.4	239.3	253.2	249.4
72.5°	1493.4	918.6	144.9	138.1	146.2	183.0	245.5	245.9	232.6	235.3	228.8
75°	1024.2	580.5	126.4	125.0	130.4	165.0	236.2	234.9	215.2	211.3	206.0
77.5°	564.8	294.8	107.4	112.5	116.3	146.2	214.7	212.9	196.6	188.5	186.5
80°	217.8	129.1	90.6	100.0	102.4	126.6	188.3	186.5	172.9	162.6	159.7
82.5°	82.3	67.6	74.9	86.6	85.9	104.5	159.5	158.5	145.2	130.0	125.5
85°	38.0	40.5	59.3	71.4	65.9	77.4	127.5	129.3	113.2	95.1	95.1
87.5°	16.1	22.6	42.1	53.9	44.3	52.3	93.5	89.3	82.1	56.8	53.4
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)