

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: P382787

Luminaire Tested: **GLEON-SA1C-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382787  
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-SA1C-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6900.9 lumens  
Efficiency: N/A  
Efficacy: 117.0 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

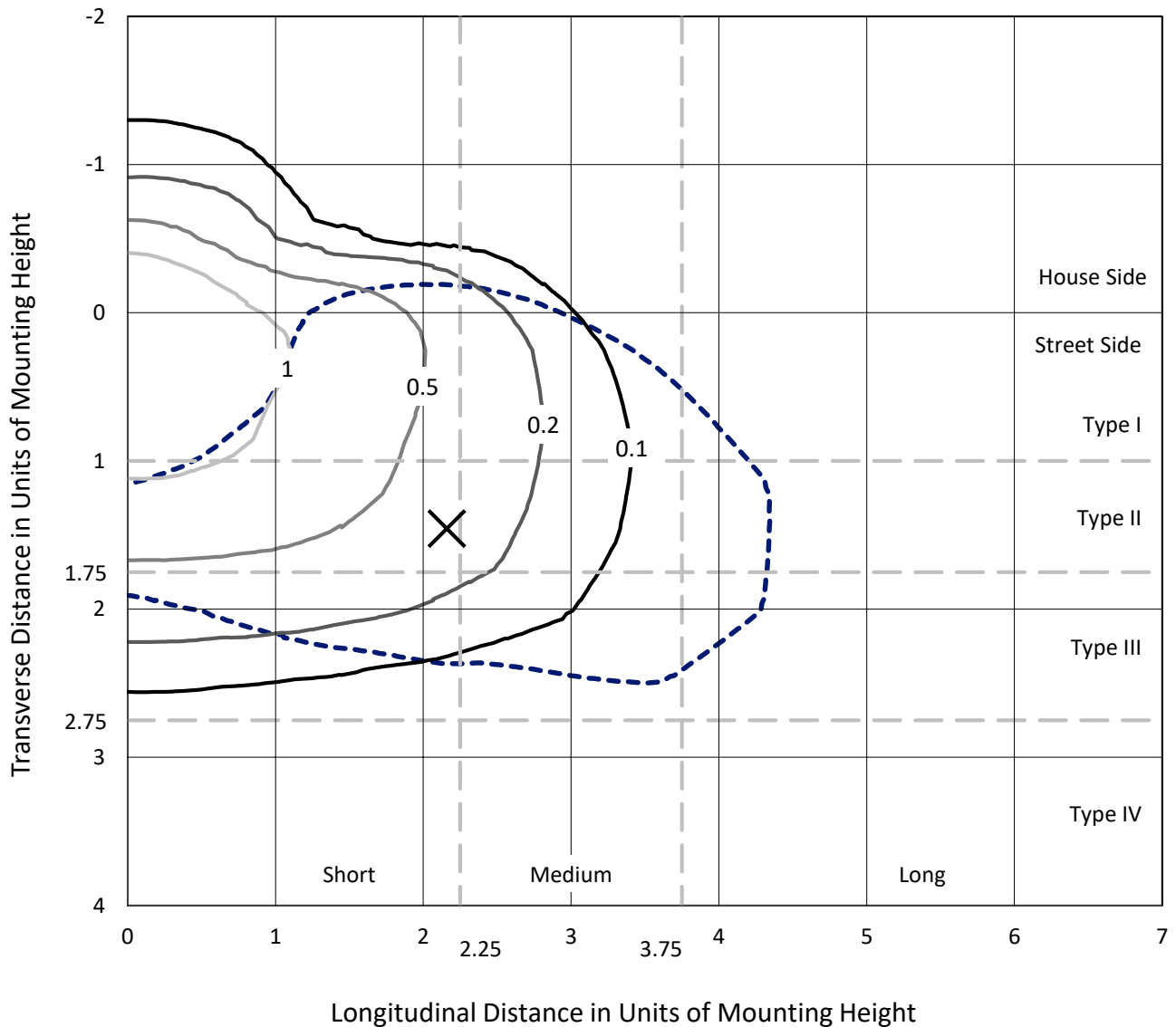
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

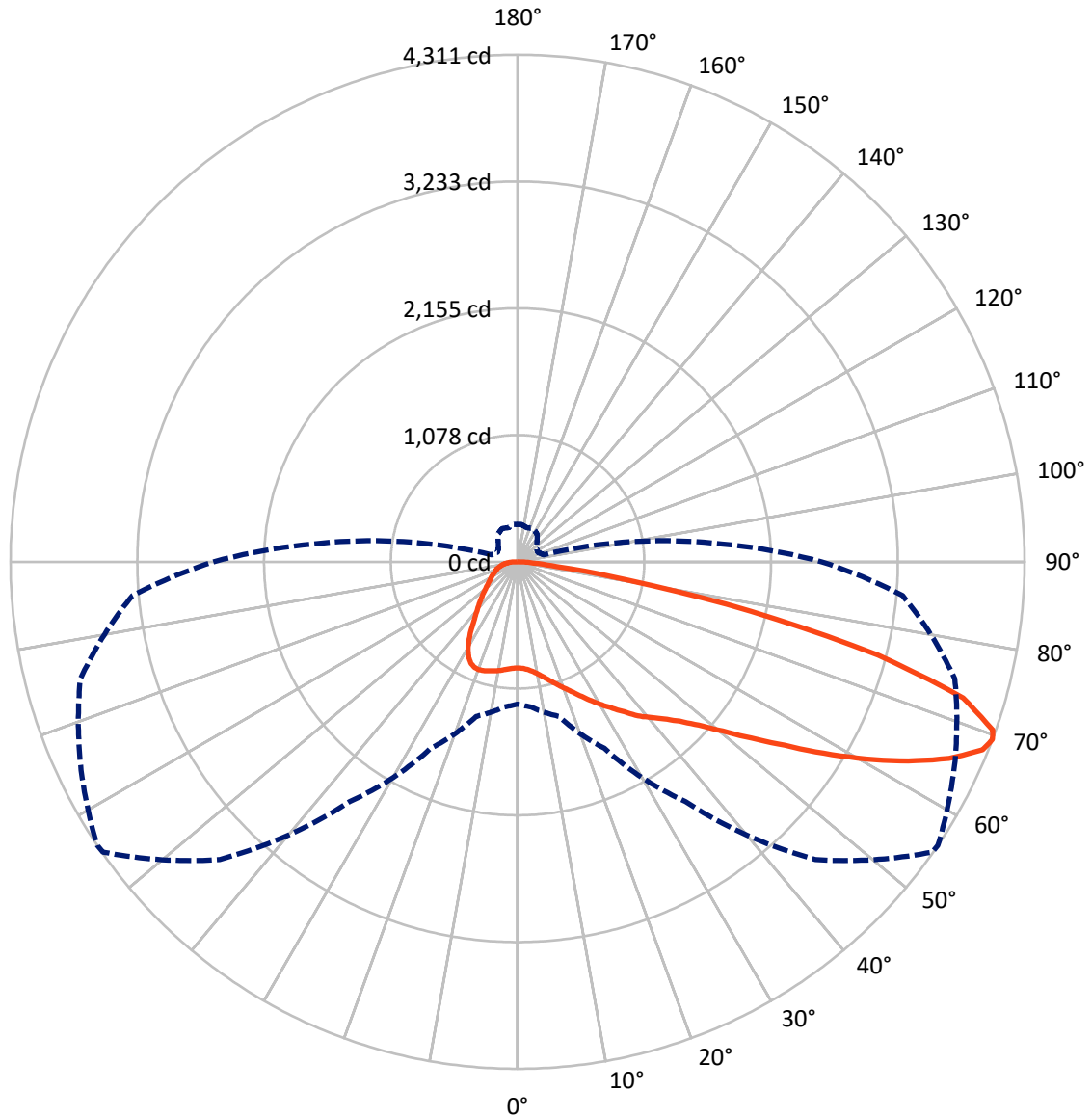
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1536.8	0.0	1536.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	5364.1	0.0	5364.1
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	6900.9	0.0	6900.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	1.3
10°-20°	284.9	4.1
20°-30°	497.4	7.2
30°-40°	714.5	10.4
40°-50°	988.8	14.3
50°-60°	1448.7	21.0
60°-70°	1766.3	25.6
70°-80°	976.5	14.2
80°-90°	135.2	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°	6900.9	100.0
0°-180°	6900.9	100.0



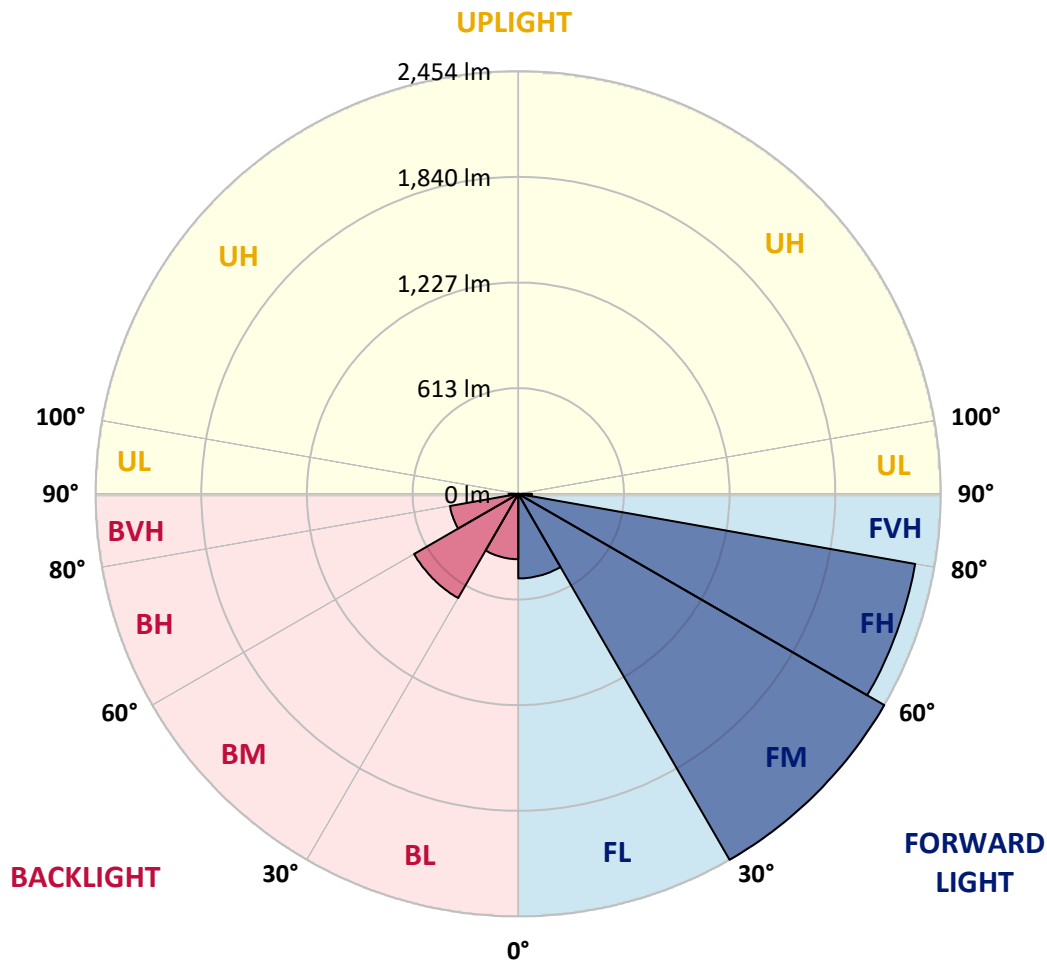
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 CATALOG NUMBER: GLEON-SA1C-735-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.1	7.1			
FM (30°-60°)	2453.5	35.6			
FH (60°-80°)	2339.8	33.9			G2/5000
FVH (80°-90°)	79.7	1.2			G1/100
BL (0°-30°)	379.8	5.5	B1/500		
BM (30°-60°)	698.5	10.1	B1/1000		
BH (60°-80°)	403.0	5.8	B1/500		G1/500
BVH (80°-90°)	55.6	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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CATALOG NUMBER: GLEON-SA1C-735-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2
2.5°	907.9	908.8	908.2	910.0	907.9	909.3	908.2	908.2	907.4	905.3	902.9
5°	922.1	924.1	922.9	924.7	922.1	922.6	920.5	920.5	918.3	913.8	909.1
7.5°	944.5	946.6	945.7	947.6	944.0	944.0	941.1	941.0	936.7	929.3	923.8
10°	971.1	974.0	973.0	975.9	973.0	974.0	971.1	971.1	965.5	954.9	948.0
12.5°	1009.9	1013.4	1010.8	1010.6	1009.4	1011.3	1009.0	1008.5	1003.2	988.9	979.4
15°	1061.7	1065.5	1060.0	1059.5	1052.9	1052.2	1052.2	1051.5	1048.2	1031.0	1015.4
17.5°	1121.4	1122.6	1117.9	1110.2	1101.6	1096.2	1095.5	1097.4	1097.4	1077.4	1052.5
20°	1179.9	1182.0	1178.2	1169.7	1158.7	1150.6	1144.9	1148.7	1148.5	1124.8	1089.3
22.5°	1243.6	1248.6	1242.9	1231.9	1219.1	1210.1	1200.1	1203.4	1203.7	1174.4	1125.4
25°	1326.1	1321.6	1318.0	1302.5	1284.2	1274.9	1265.7	1269.0	1268.0	1227.9	1162.8
27.5°	1399.1	1400.0	1395.3	1378.9	1357.6	1337.2	1336.8	1338.9	1335.4	1283.5	1198.0
30°	1484.0	1484.4	1477.7	1463.0	1439.9	1413.5	1407.4	1410.9	1403.3	1336.3	1235.0
32.5°	1568.4	1570.7	1563.3	1545.5	1527.0	1494.9	1482.5	1484.9	1465.9	1390.2	1273.3
35°	1642.2	1645.6	1643.2	1631.3	1611.1	1583.5	1568.8	1567.3	1543.9	1456.4	1323.9
37.5°	1717.6	1720.7	1718.1	1708.1	1700.0	1670.7	1662.9	1662.9	1622.0	1523.8	1388.4
40°	1795.1	1799.8	1796.8	1783.0	1776.1	1762.8	1744.0	1739.5	1695.2	1605.0	1493.5
42.5°	1867.1	1873.3	1885.6	1877.6	1863.6	1865.5	1827.7	1825.3	1792.9	1724.8	1625.4
45°	1969.4	1978.4	1999.3	1993.1	1990.3	1979.8	1934.9	1932.8	1920.4	1885.9	1789.1
47.5°	2080.9	2093.2	2131.0	2132.2	2162.9	2143.1	2082.0	2074.6	2077.5	2078.9	1989.1
50°	2183.5	2197.1	2259.2	2288.4	2360.6	2364.9	2267.2	2260.6	2271.8	2304.6	2222.1
52.5°	2265.6	2282.7	2360.2	2450.5	2574.4	2609.5	2495.2	2490.2	2498.6	2555.1	2485.5
55°	2325.7	2344.2	2428.6	2593.1	2790.9	2853.1	2757.7	2752.9	2758.1	2830.2	2771.9
57.5°	2339.8	2344.2	2466.7	2689.2	2973.8	3122.8	3078.9	3069.4	3043.6	3106.4	3088.1
60°	2273.9	2292.0	2435.3	2723.0	3115.2	3388.9	3414.5	3402.7	3330.7	3382.0	3367.3
62.5°	2140.3	2172.6	2318.2	2671.6	3170.6	3606.1	3743.8	3729.5	3605.5	3638.7	3567.8
65°	1922.1	1935.8	2088.7	2494.5	3100.3	3745.2	4037.4	4030.2	3874.0	3822.0	3605.0
67.5°	1531.7	1557.6	1687.4	2124.4	2812.3	3728.8	4264.4	4263.7	4049.5	3890.0	3473.5
69°	1210.1	1236.9	1360.5	1749.9	2488.5	3578.8	4302.4	4310.7	4099.0	3848.6	3285.7
70°	964.7	995.8	1080.7	1473.9	2201.2	3381.1	4270.9	4285.8	4089.5	3780.4	3112.4
72.5°	410.5	435.8	496.1	759.8	1341.5	2524.7	3905.0	3961.6	3869.1	3460.0	2572.3
75°	179.2	187.1	214.4	309.7	595.5	1374.1	3059.1	3163.7	3308.3	2924.6	1916.1
77.5°	131.3	134.5	149.5	181.8	267.2	519.0	1967.2	2028.1	2385.9	2128.2	1175.3
80°	101.5	103.9	115.5	133.6	174.5	209.9	897.2	949.5	1341.5	1093.1	489.5
82.5°	80.9	82.5	90.5	98.5	120.5	127.2	297.9	330.4	495.2	301.9	129.6
85°	75.1	77.0	79.8	71.8	77.2	74.6	128.8	134.8	149.5	118.6	54.2
87.5°	34.0	40.1	79.2	55.9	41.1	32.8	52.8	55.1	62.0	62.3	24.0
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°	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2	902.2
2.5°	904.3	903.6	904.8	901.9	905.6	905.3	904.1	904.5	907.0	906.7	907.0
5°	909.8	909.3	910.8	908.6	912.9	914.3	914.6	916.7	919.3	920.0	920.0
7.5°	923.6	923.6	924.3	921.5	924.3	924.1	922.9	925.0	927.6	927.8	927.6
10°	947.4	947.6	946.5	939.0	936.7	930.2	924.3	924.6	927.8	930.5	931.2
12.5°	977.3	976.4	971.1	957.5	947.6	934.5	928.4	928.1	931.5	933.6	934.2
15°	1011.6	1009.0	995.4	973.3	955.7	942.8	932.9	930.5	928.6	926.2	926.4
17.5°	1043.9	1037.9	1015.4	984.6	966.1	949.1	929.8	914.3	903.6	897.5	895.5
20°	1076.7	1065.0	1032.4	995.4	971.9	940.7	903.6	872.2	852.7	843.7	842.0
22.5°	1106.7	1087.9	1048.4	1006.5	967.3	912.6	854.4	808.8	781.7	769.6	770.5
25°	1135.8	1109.8	1065.0	1014.4	944.5	863.2	785.9	729.9	698.5	684.9	684.4
27.5°	1161.5	1131.8	1083.1	1007.9	901.9	792.8	704.9	650.2	624.0	612.4	610.5
30°	1191.1	1159.7	1107.1	983.5	839.7	711.5	625.7	587.2	568.6	557.0	554.8
32.5°	1226.9	1197.4	1126.8	939.0	760.0	626.7	563.9	537.0	520.2	507.0	504.7
35°	1279.2	1247.3	1131.8	875.3	672.6	559.6	518.5	490.9	468.1	451.2	449.6
37.5°	1344.9	1309.9	1120.5	792.8	587.7	516.1	480.7	446.7	417.0	393.2	389.4
40°	1439.4	1386.7	1088.8	697.7	525.1	482.6	443.9	405.1	368.2	340.4	335.0
42.5°	1553.1	1476.8	1040.4	603.1	479.3	448.6	407.3	359.2	324.0	304.3	301.4
45°	1697.7	1570.5	973.0	520.4	434.1	414.6	367.8	323.5	301.6	287.2	284.8
47.5°	1862.6	1675.6	902.4	453.1	395.8	382.8	336.2	307.6	290.3	278.8	276.8
50°	2065.4	1794.2	827.6	398.0	357.3	344.5	321.2	298.8	285.1	276.2	274.1
52.5°	2294.1	1928.0	773.6	354.5	325.5	316.2	313.4	294.1	282.9	276.2	274.1
55°	2540.4	2064.2	715.3	317.8	297.9	300.5	308.1	294.6	286.9	278.8	275.7
57.5°	2786.9	2205.0	650.4	286.9	276.0	288.9	304.5	295.5	289.1	281.2	278.3
60°	2981.9	2294.1	549.9	261.0	258.7	276.0	296.0	288.4	280.0	280.3	279.8
62.5°	3072.9	2289.4	438.9	238.0	241.3	258.7	282.2	277.2	270.3	279.6	280.3
65°	3021.8	2175.3	341.6	217.1	222.7	240.6	267.9	271.7	274.1	291.9	294.3
67.5°	2807.4	1953.2	264.6	198.7	205.9	228.2	269.3	296.0	299.0	317.8	317.6
69°	2585.6	1745.0	229.9	189.2	197.6	231.3	287.8	311.4	299.8	319.7	316.9
70°	2399.7	1580.2	211.4	182.8	193.8	236.8	300.2	311.2	296.2	313.4	308.5
72.5°	1848.1	1136.9	179.2	170.9	180.9	226.6	303.8	304.3	287.8	291.2	283.1
75°	1267.6	718.4	156.4	154.7	161.4	204.2	292.4	290.7	266.2	261.5	254.9
77.5°	698.9	364.9	132.9	139.3	143.8	180.9	265.8	263.4	243.2	233.3	230.8
80°	269.6	159.8	112.3	123.9	126.7	156.7	233.0	230.8	214.0	201.1	197.6
82.5°	101.7	83.7	92.7	107.2	106.3	129.3	197.3	196.1	179.7	161.0	155.2
85°	47.0	50.1	73.5	88.4	81.5	95.8	157.9	159.9	140.0	117.7	117.7
87.5°	19.9	28.0	52.1	66.8	55.0	64.6	115.8	110.6	101.5	70.3	66.0
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)