

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: P382866

Luminaire Tested: **GLEON-SA2B-735-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2B-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7748.6 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

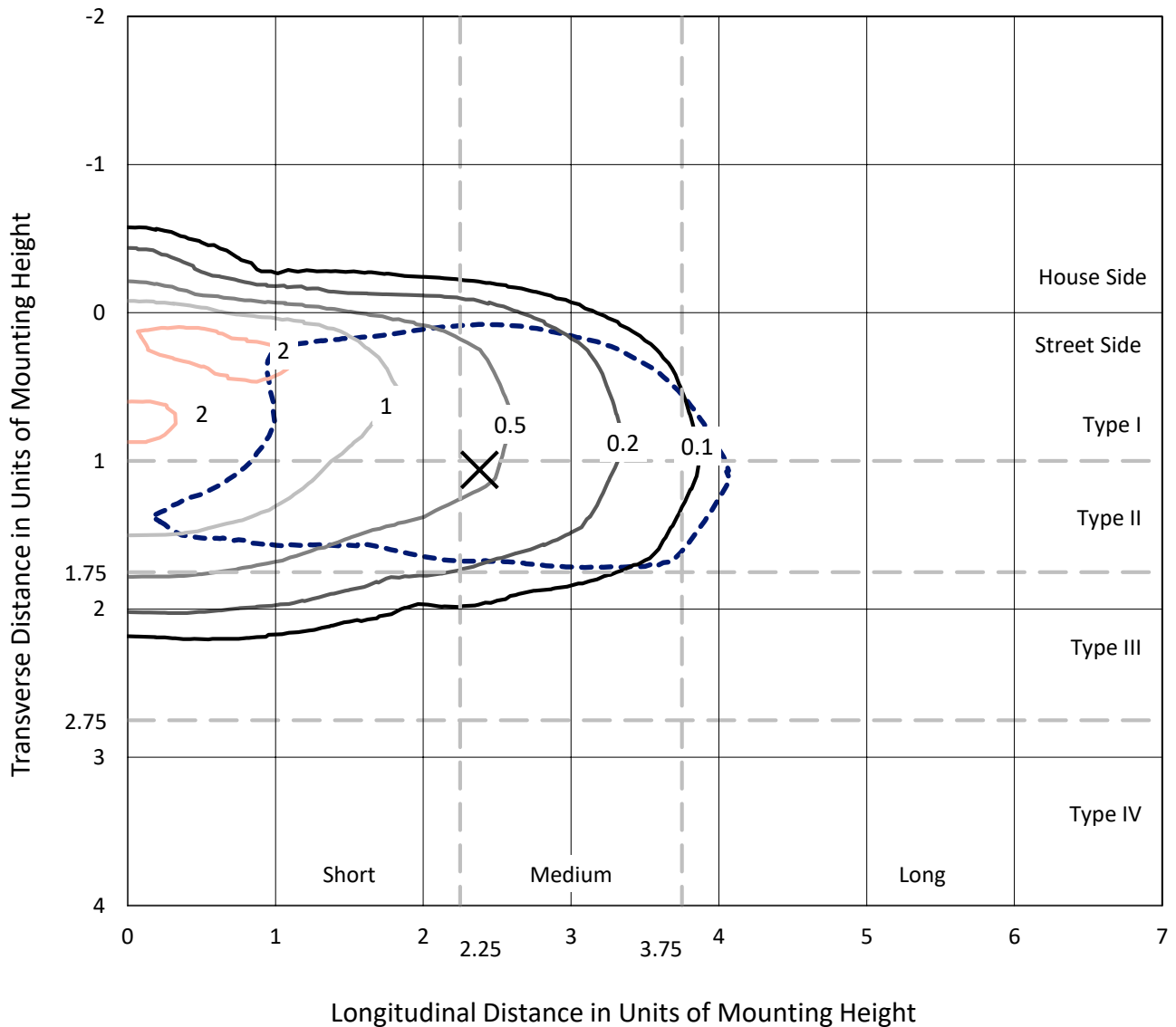
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382866  
 CATALOG NUMBER: GLEON-SA2B-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

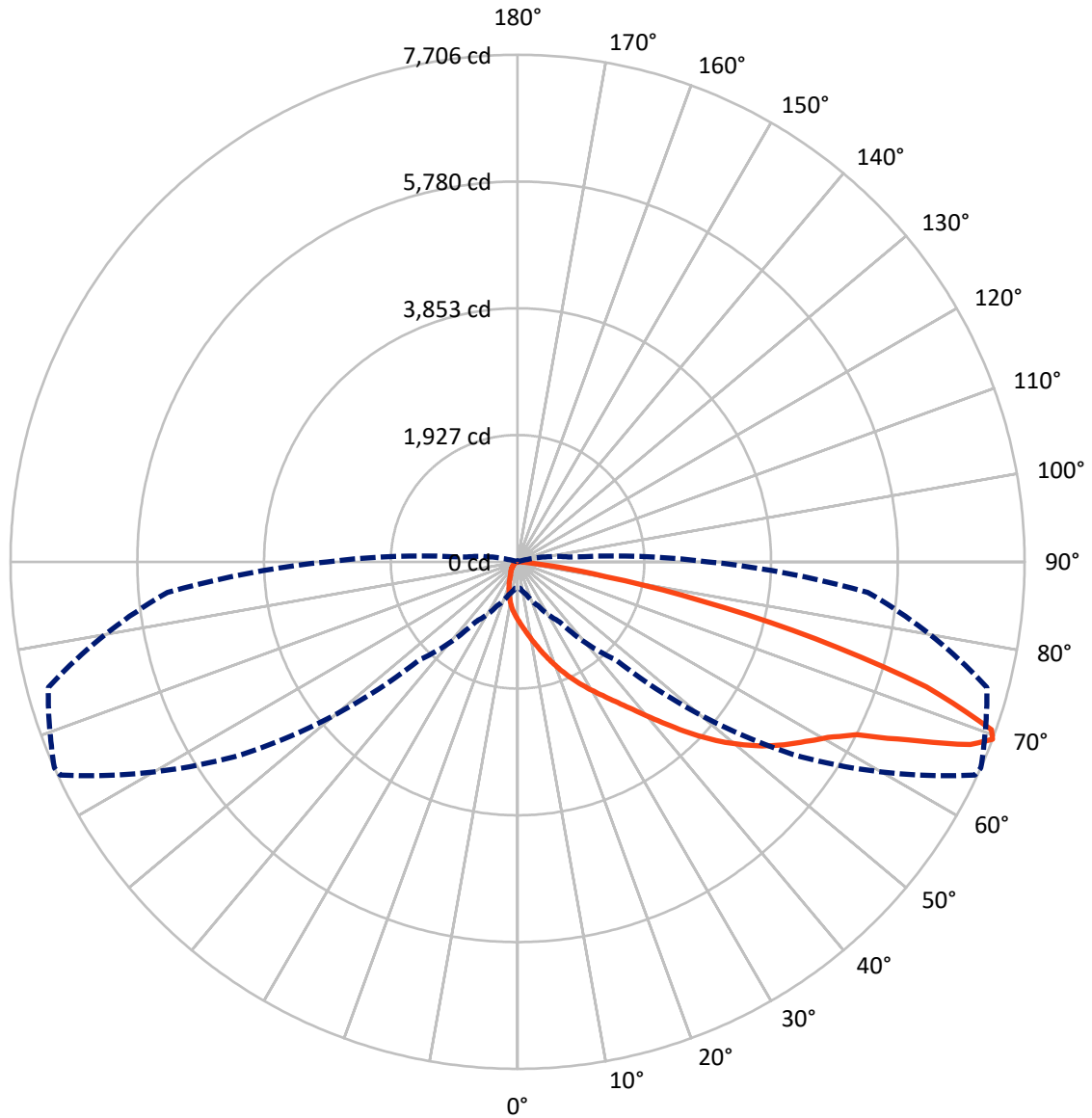
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P382866  
CATALOG NUMBER: GLEON-SA2B-735-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P382866  
 CATALOG NUMBER: GLEON-SA2B-735-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	464.8	0.0	464.8
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	7283.8	0.0	7283.8
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	7748.6	0.0	7748.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	1.1
10°-20°	253.7	3.3
20°-30°	441.8	5.7
30°-40°	775.1	10.0
40°-50°	1297.4	16.7
50°-60°	1907.0	24.6
60°-70°	1958.0	25.3
70°-80°	966.6	12.5
80°-90°	63.9	0.8
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°	7748.6	100.0
0°-180°	7748.6	100.0

**Coefficient of Utilization**

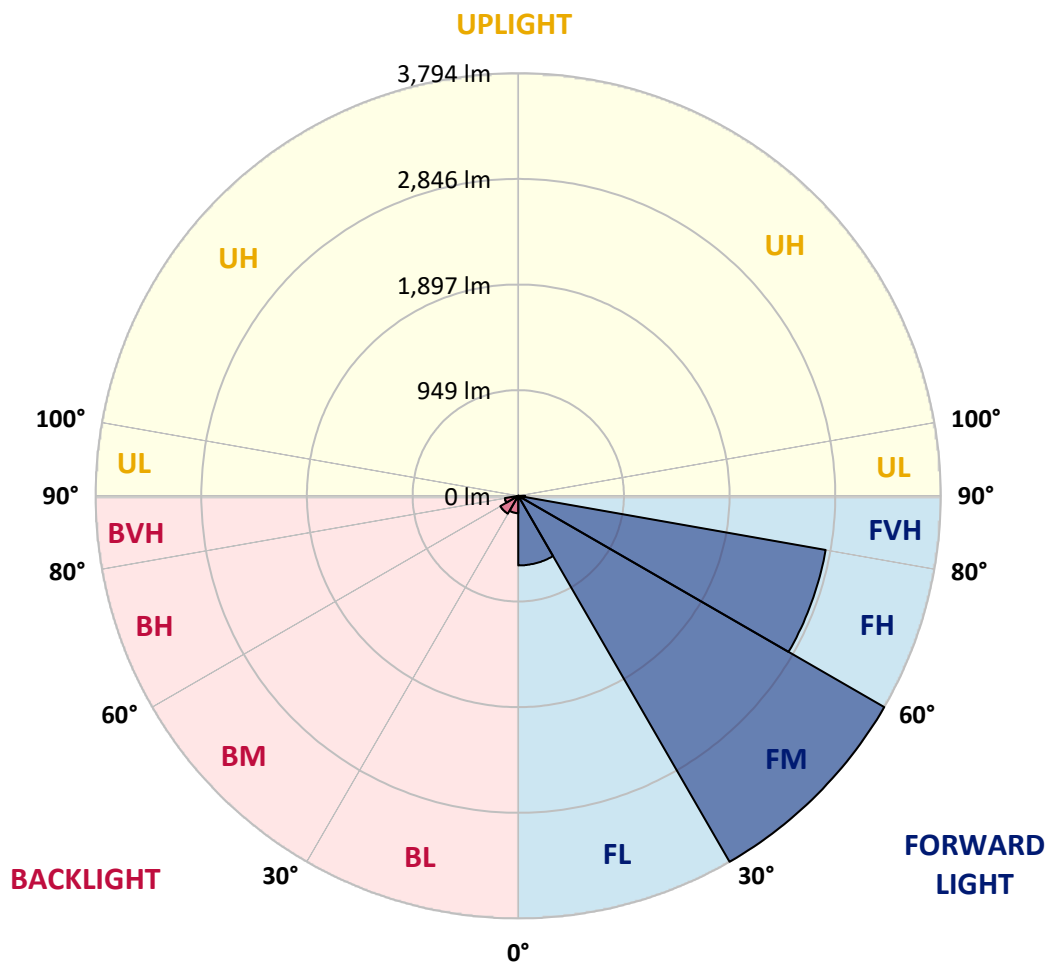


REPORT NUMBER: P382866  
 CATALOG NUMBER: GLEON-SA2B-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.2	8.1			
FM (30°-60°)	3794.1	49.0			
FH (60°-80°)	2802.1	36.2			G2/5000
FVH (80°-90°)	62.4	0.8			G1/100
BL (0°-30°)	155.5	2.0	B1/500		
BM (30°-60°)	185.3	2.4	B0/220		
BH (60°-80°)	122.5	1.6	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
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





REPORT NUMBER: P382866

CATALOG NUMBER: GLEON-SA2B-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8
2.5°	1037.8	1033.5	1031.6	1023.5	1009.5	998.9	978.2	954.3	949.9	926.7	898.4
5°	1172.5	1168.9	1166.3	1154.9	1140.6	1113.7	1076.1	1031.6	1023.1	979.0	922.3
7.5°	1266.4	1273.1	1273.1	1265.7	1247.6	1227.4	1181.4	1120.7	1110.0	1042.3	954.3
10°	1321.2	1329.3	1335.7	1341.9	1339.3	1331.2	1287.8	1219.3	1206.4	1116.6	991.4
12.5°	1326.4	1334.5	1352.1	1378.3	1403.7	1422.1	1394.9	1328.6	1313.9	1202.7	1035.7
15°	1297.7	1306.1	1333.4	1384.2	1445.7	1499.4	1508.2	1449.7	1434.6	1305.5	1090.8
17.5°	1247.6	1253.2	1292.1	1362.5	1458.9	1557.5	1610.9	1579.6	1565.7	1422.8	1152.3
20°	1210.5	1214.6	1248.7	1324.2	1450.8	1594.0	1708.1	1717.6	1702.9	1548.7	1218.9
22.5°	1274.2	1281.5	1282.6	1318.3	1428.7	1612.0	1793.4	1853.4	1842.4	1682.3	1284.4
25°	1448.2	1456.7	1428.7	1406.6	1447.5	1620.1	1866.7	1992.6	1983.7	1826.2	1350.4
27.5°	1678.3	1687.1	1651.0	1585.1	1545.7	1650.6	1931.8	2133.9	2133.5	1978.6	1421.4
30°	1904.3	1913.0	1876.2	1810.4	1719.8	1737.1	1988.1	2281.8	2284.1	2135.8	1496.8
32.5°	2141.3	2152.2	2114.3	2029.7	1935.1	1886.6	2067.3	2430.5	2443.1	2317.9	1581.9
35°	2410.7	2412.1	2358.8	2270.1	2161.1	2086.4	2194.3	2597.2	2627.1	2543.5	1689.6
37.5°	2674.9	2685.6	2641.8	2502.0	2401.8	2317.1	2383.1	2805.5	2847.8	2819.1	1830.6
40°	2870.7	2893.1	2886.9	2736.0	2641.0	2580.7	2617.5	3053.2	3107.0	3140.1	2008.4
42.5°	2993.6	3010.6	3039.3	2948.3	2862.2	2872.1	2894.2	3341.7	3408.1	3505.9	2212.6
45°	3134.6	3142.7	3166.6	3126.5	3068.3	3168.5	3187.9	3666.8	3736.3	3899.4	2439.4
47.5°	3306.8	3326.0	3332.6	3295.8	3269.3	3430.5	3470.9	3962.2	4059.8	4320.8	2679.3
50°	3526.2	3531.3	3542.8	3518.8	3492.3	3655.7	3724.9	4272.5	4361.2	4743.6	2915.9
52.5°	3740.7	3759.2	3798.9	3783.8	3773.1	3847.5	3951.3	4552.3	4651.2	5096.2	3152.3
55°	3802.6	3818.4	3955.6	4049.5	4136.4	4083.7	4167.7	4802.9	4910.0	5411.3	3379.7
57.5°	3555.6	3587.7	3825.4	4069.7	4430.1	4451.0	4465.0	5060.2	5156.2	5652.7	3616.4
60°	2931.4	2937.6	3327.8	3747.0	4381.4	4771.6	4899.3	5336.6	5417.1	5877.6	3899.7
62.5°	1864.5	1928.1	2356.2	2948.0	3867.7	4725.3	5424.5	5754.6	5784.1	6147.3	4306.1
65°	888.0	929.3	1237.7	1821.5	2801.5	4131.6	5787.1	6511.0	6524.2	6682.1	4848.9
67.5°	491.7	511.6	658.4	980.5	1637.8	2921.9	5640.5	7406.7	7419.2	7228.3	5325.1
69°	384.6	401.5	517.1	739.0	1110.4	2100.0	5104.3	7669.2	7706.3	7384.7	5342.1
70°	326.4	343.0	445.3	624.2	892.9	1622.7	4543.4	7604.0	7643.4	7369.9	5215.8
72.5°	199.8	209.4	296.6	439.4	598.4	816.3	2801.9	6430.8	6497.4	6760.5	4482.7
75°	134.7	139.8	185.5	303.2	428.0	420.3	1455.5	4532.7	4677.0	5258.9	3310.9
77.5°	96.4	101.2	124.4	196.2	300.0	277.5	659.2	2817.0	2847.8	3154.0	1805.6
80°	54.9	59.2	87.9	116.6	203.5	185.1	262.0	1345.5	1361.0	1352.5	602.8
82.5°	28.7	32.4	48.3	76.9	130.7	121.1	108.9	450.5	452.7	376.5	132.1
85°	5.5	6.6	23.9	52.6	67.4	52.6	44.5	105.6	107.9	95.3	32.8
87.5°	0.0	0.4	9.6	11.7	13.2	13.6	14.3	20.6	22.1	29.8	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382866

CATALOG NUMBER: GLEON-SA2B-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8	881.8
2.5°	885.9	872.6	847.2	817.8	795.0	772.5	754.8	736.5	729.8	726.5	726.1
5°	894.7	866.7	813.0	757.8	712.5	669.8	639.3	610.2	596.6	590.3	587.7
7.5°	909.4	864.5	778.0	693.7	628.6	575.2	532.9	501.3	485.4	478.8	476.2
10°	926.7	861.6	737.1	626.0	542.8	487.7	445.7	414.4	397.1	389.8	386.0
12.5°	946.9	856.5	690.1	557.5	469.6	414.4	363.6	325.0	305.1	296.6	292.6
15°	972.0	851.2	640.7	493.2	405.2	337.9	282.3	256.2	252.1	250.7	251.0
17.5°	996.7	843.1	587.1	429.5	337.5	263.9	235.6	234.1	234.8	234.8	234.8
20°	1018.7	824.8	528.5	375.0	273.1	222.6	216.8	214.2	212.4	210.9	209.0
22.5°	1036.1	800.1	472.2	320.9	223.0	203.9	194.7	186.6	180.0	175.6	173.4
25°	1047.8	767.3	420.7	269.0	200.6	185.5	168.9	155.3	145.0	138.7	136.2
27.5°	1056.7	732.0	374.7	225.2	185.1	164.1	142.4	126.2	115.6	110.0	107.9
30°	1062.9	692.0	334.1	198.0	167.9	141.7	118.5	102.7	94.9	92.0	90.5
32.5°	1068.8	647.3	295.9	185.1	151.7	121.1	99.4	87.2	82.4	78.7	77.7
35°	1083.5	606.2	259.4	171.5	135.1	103.4	85.4	76.6	71.7	69.6	68.8
37.5°	1118.5	575.6	224.5	157.5	118.5	89.4	74.7	68.5	64.0	61.9	61.1
40°	1174.8	560.1	195.1	142.4	102.3	78.7	67.7	61.9	57.0	53.8	53.0
42.5°	1257.6	562.4	174.5	127.3	89.4	70.3	61.1	54.1	48.9	46.0	45.3
45°	1358.1	578.6	160.1	112.6	78.7	63.6	53.8	46.4	41.5	39.0	38.3
47.5°	1467.0	604.7	148.3	99.4	70.3	57.4	46.4	38.7	34.6	32.4	32.0
50°	1581.9	630.1	136.2	86.4	63.0	51.1	39.0	32.0	28.7	26.8	26.2
52.5°	1698.1	659.5	125.1	74.7	56.6	43.8	32.4	26.2	23.6	22.1	21.3
55°	1823.2	681.6	114.5	65.5	50.4	37.2	26.8	21.7	19.5	17.7	17.3
57.5°	1970.5	715.8	103.4	56.6	43.0	30.9	22.1	17.3	15.5	13.6	13.2
60°	2169.2	756.0	91.7	50.0	35.3	25.4	18.1	14.0	11.7	10.3	10.0
62.5°	2431.2	800.5	76.9	43.8	28.7	20.6	14.3	11.1	8.5	6.6	6.6
65°	2763.6	873.0	63.0	36.8	23.6	17.0	11.1	8.1	4.8	3.0	3.0
67.5°	2957.6	885.5	50.8	30.2	19.1	14.3	9.2	5.5	1.5	0.4	0.0
69°	2895.3	813.0	43.0	25.8	16.6	13.6	8.5	4.0	0.7	0.0	0.0
70°	2778.3	743.5	37.9	22.8	15.1	12.9	8.1	3.0	0.7	0.0	0.0
72.5°	2295.8	529.2	28.7	17.0	11.1	11.4	7.4	1.9	0.7	0.0	0.0
75°	1672.4	321.7	20.6	11.7	7.0	8.5	5.1	0.7	0.4	0.0	0.0
77.5°	930.4	151.7	12.9	6.6	4.4	5.1	2.6	0.0	0.0	0.0	0.0
80°	302.2	41.2	5.9	3.7	2.6	3.0	1.1	0.0	0.0	0.0	0.0
82.5°	56.0	11.7	3.4	1.9	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	12.1	4.8	1.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)