

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: P527381

Luminaire Tested: **GALN-SA2B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4962 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

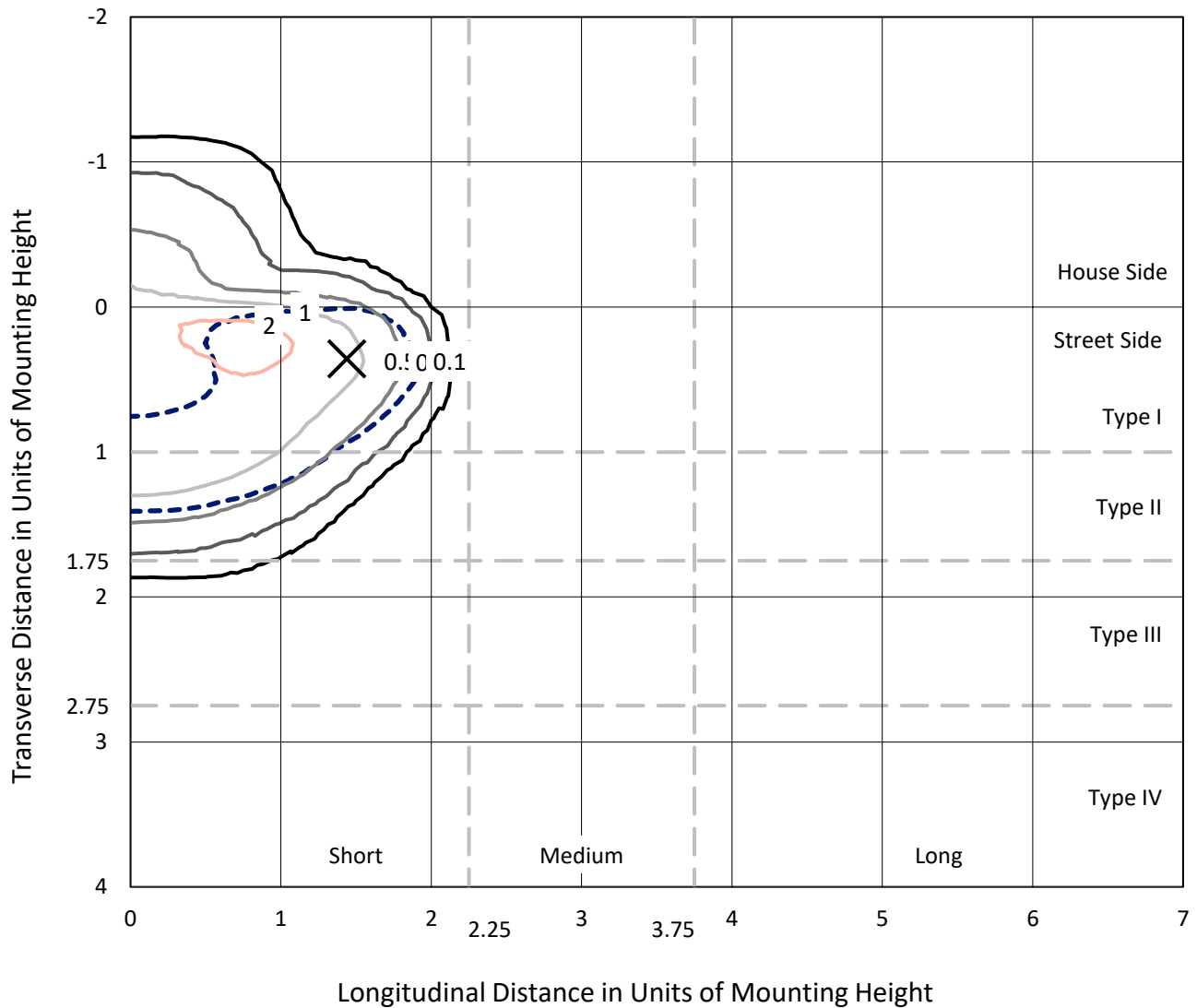
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

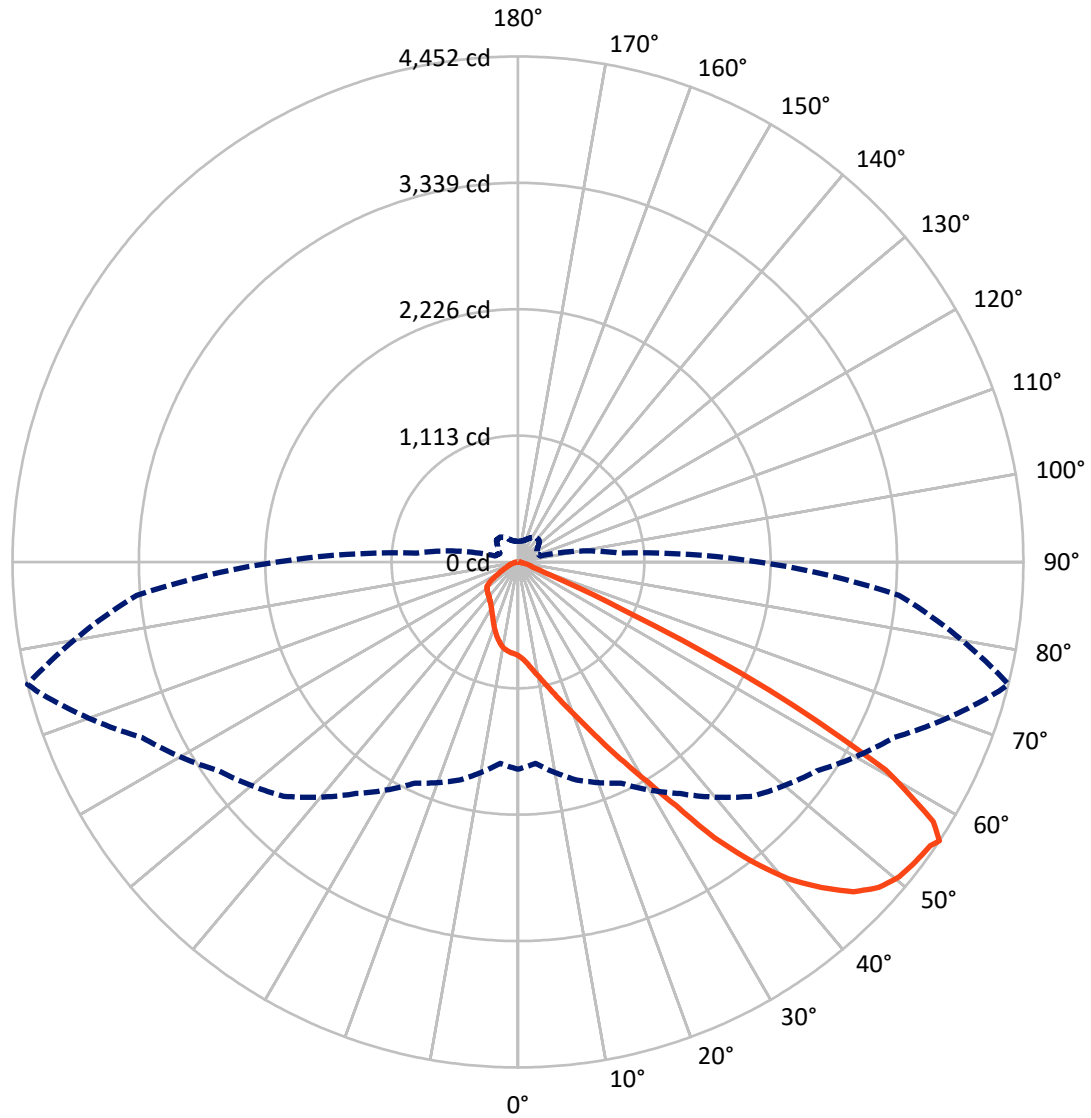
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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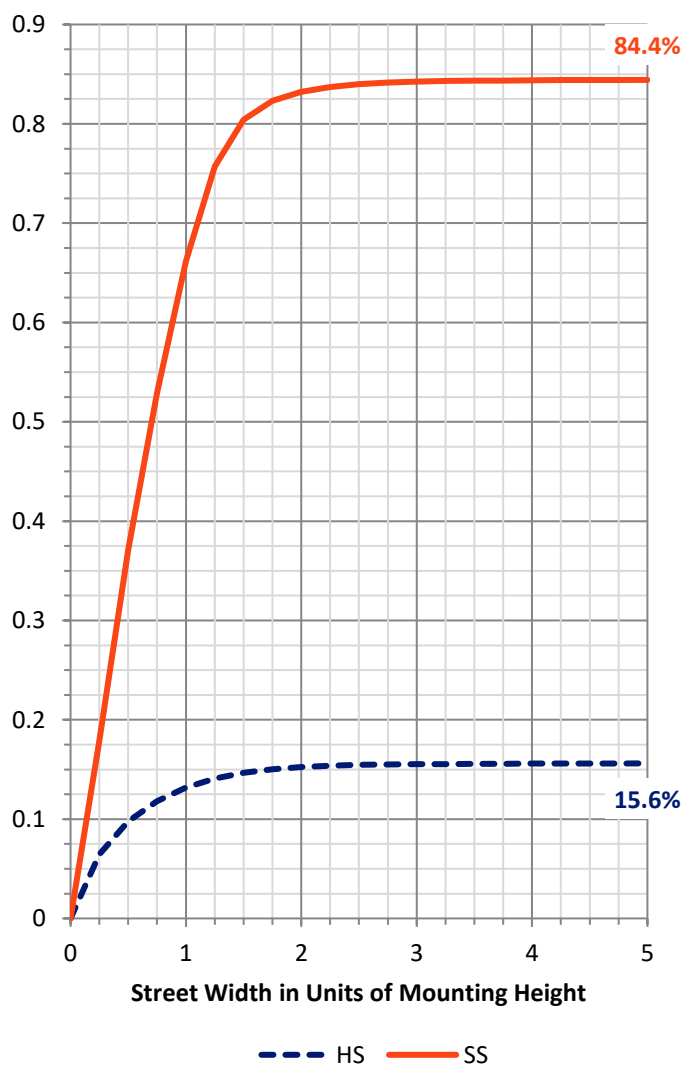
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	779.5	0.0	779.5
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	4182.5	0.0	4182.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	4962.0	0.0	4962.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	1.7
10°-20°	267.3	5.4
20°-30°	484.7	9.8
30°-40°	835.8	16.8
40°-50°	1357.9	27.4
50°-60°	1431.2	28.8
60°-70°	437.3	8.8
70°-80°	56.1	1.1
80°-90°	8.5	0.2
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°	4962.0	100.0
0°-180°	4962.0	100.0

**Coefficient of Utilization**

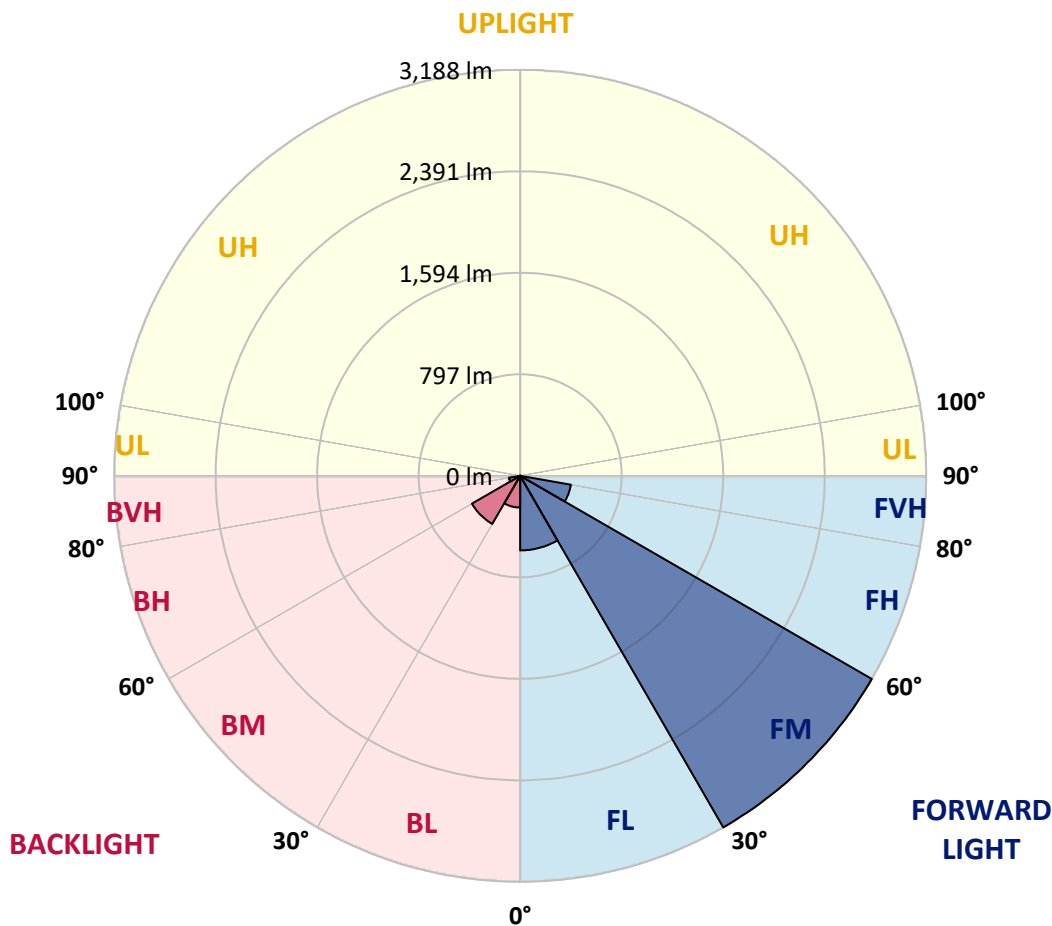


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.8	11.8			
FM (30°-60°)	3188.1	64.2			
FH (60°-80°)	404.4	8.2			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	249.4	5.0	B1/500		
BM (30°-60°)	436.9	8.8	B1/1000		
BH (60°-80°)	88.9	1.8	B0/110		G0/110
BVH (80°-90°)	4.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	951.2	929.3	930.2	928.4	925.6	915.6	885.4	880.8	860.7	855.2	836.9
5°	1065.6	1046.4	1057.3	1040.9	1025.3	1016.2	966.8	943.9	911.9	900.0	874.4
7.5°	1136.9	1127.8	1124.1	1125.0	1110.4	1087.5	1065.6	1015.3	972.3	963.1	909.2
10°	1171.7	1166.2	1171.7	1168.9	1175.3	1178.1	1139.7	1109.5	1046.4	1030.8	946.7
12.5°	1179.9	1190.9	1195.5	1207.3	1222.9	1249.4	1246.7	1205.5	1121.4	1111.3	1004.3
15°	1200.0	1209.2	1204.6	1223.8	1253.1	1297.9	1321.7	1315.3	1224.7	1206.4	1071.1
17.5°	1218.3	1201.9	1217.4	1255.8	1285.1	1353.7	1411.3	1437.8	1337.2	1316.2	1132.3
20°	1243.0	1238.4	1235.7	1254.9	1307.0	1398.5	1512.8	1561.3	1463.4	1441.5	1220.1
22.5°	1318.0	1318.9	1317.1	1288.7	1326.2	1429.6	1601.6	1721.4	1614.4	1596.1	1319.8
25°	1416.8	1404.9	1395.8	1372.9	1368.3	1458.0	1691.2	1917.1	1795.5	1782.7	1427.8
27.5°	1521.1	1521.1	1493.6	1472.6	1443.3	1528.4	1773.5	2107.4	2014.1	1996.7	1522.0
30°	1634.5	1640.9	1637.2	1592.4	1574.1	1605.2	1857.7	2350.7	2264.7	2242.7	1677.5
32.5°	1801.9	1788.1	1803.7	1766.2	1712.2	1739.7	1990.3	2568.3	2590.3	2559.2	1881.4
35°	2023.2	2015.0	2004.9	1943.6	1879.6	1901.6	2177.8	2836.3	2999.1	2983.6	2087.2
37.5°	2221.7	2217.1	2208.9	2166.8	2092.7	2119.3	2390.9	3115.3	3397.9	3346.7	2378.1
40°	2430.2	2454.9	2428.4	2390.9	2323.2	2381.8	2641.5	3280.9	3733.6	3671.4	2600.4
42.5°	2712.9	2693.7	2705.5	2636.9	2600.4	2664.4	2893.0	3446.4	3994.3	3920.2	2836.3
45°	3013.8	3014.7	2982.7	2960.7	2865.6	2935.1	3047.6	3537.9	4201.9	4144.3	3014.7
47.5°	3206.8	3205.9	3240.6	3275.4	3177.5	3108.9	3152.8	3624.8	4308.9	4282.4	3079.6
50°	3176.6	3185.7	3230.6	3360.4	3411.7	3319.3	3251.6	3599.2	4357.4	4354.7	3135.4
52.5°	2763.2	2793.4	2868.4	3055.9	3313.8	3428.1	3355.0	3646.7	4381.2	4385.8	3218.7
55°	2103.7	2120.2	2262.9	2490.6	2776.0	3167.4	3313.8	3684.2	4399.5	4407.7	3319.3
56°	1824.7	1780.8	1986.6	2148.5	2489.7	2917.7	3209.5	3655.0	4388.5	4451.6	3369.6
57.5°	1377.5	1348.2	1514.7	1716.8	2045.2	2497.0	2885.7	3516.8	4314.4	4313.5	3297.3
60°	837.8	808.6	936.6	1055.5	1239.4	1537.5	1950.0	2800.7	3647.6	3724.5	2669.9
62.5°	498.5	516.8	643.0	715.3	774.7	805.8	1008.9	1664.7	2433.9	2488.8	1656.4
65°	332.0	338.4	433.5	552.5	579.0	461.0	410.7	674.1	1055.5	1021.7	683.2
67.5°	204.9	219.5	290.9	415.3	460.1	336.6	194.8	251.5	290.9	290.9	197.6
70°	124.4	131.7	193.9	282.6	315.6	216.8	141.8	141.8	139.9	137.2	118.0
72.5°	59.5	64.0	98.8	145.4	148.2	114.3	109.8	119.8	117.1	116.2	97.9
75°	25.6	27.4	34.8	45.7	52.1	48.5	66.8	86.0	88.7	86.0	70.4
77.5°	8.2	9.1	12.8	16.5	17.4	21.0	28.4	35.7	41.2	38.4	34.8
80°	0.9	1.8	3.7	8.2	12.8	16.5	21.0	23.8	26.5	26.5	24.7
82.5°	0.9	0.9	3.7	7.3	11.9	15.5	20.1	22.9	26.5	27.4	25.6
85°	0.0	0.9	2.7	6.4	10.1	10.1	9.1	9.1	6.4	6.4	6.4
87.5°	0.0	0.0	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	833.2	831.4	806.7	791.2	782.9	766.5	756.4	749.1	743.6	737.2	738.1
5°	844.2	837.8	796.7	768.3	734.5	716.2	700.6	687.8	679.6	677.8	674.1
7.5°	875.3	841.5	779.3	728.1	685.1	666.8	653.1	644.8	648.5	640.3	646.7
10°	899.1	848.8	758.2	684.2	641.2	627.5	620.1	626.5	635.7	632.0	627.5
12.5°	928.4	856.1	724.4	642.1	601.8	591.8	604.6	616.5	634.8	642.1	632.9
15°	961.3	864.3	681.4	593.6	568.0	576.2	598.2	619.2	637.5	646.7	652.1
17.5°	1001.5	861.6	639.3	555.2	536.0	559.8	586.3	605.5	632.9	646.7	643.0
20°	1039.0	852.5	592.7	516.8	517.7	539.6	561.6	592.7	607.3	625.6	619.2
22.5°	1074.7	836.0	544.2	490.3	490.3	524.1	535.1	555.2	568.0	577.1	576.2
25°	1125.0	804.9	504.0	464.6	475.6	497.6	506.7	513.1	507.6	515.0	515.9
27.5°	1160.7	772.9	471.0	441.8	461.9	478.4	475.6	472.0	459.2	449.1	455.5
30°	1199.1	735.4	442.7	426.2	437.2	451.8	440.9	429.9	409.8	393.3	394.2
32.5°	1254.0	718.0	418.0	407.9	422.6	424.4	412.5	396.0	375.9	360.4	359.5
35°	1356.4	707.0	397.0	396.0	398.8	399.7	387.8	367.7	359.5	346.7	351.2
37.5°	1458.9	701.5	382.3	378.7	377.8	378.7	364.9	345.7	361.3	360.4	362.2
40°	1589.7	726.2	361.3	356.7	357.6	357.6	340.3	334.8	362.2	364.9	365.9
42.5°	1722.3	757.3	347.6	332.9	336.6	336.6	327.4	321.0	340.3	322.0	319.2
45°	1837.5	803.1	332.9	309.2	318.3	322.9	320.1	309.2	297.3	266.2	266.2
47.5°	1875.0	843.3	315.6	286.3	293.6	313.7	305.5	282.6	261.6	236.0	234.2
50°	1940.9	887.2	301.8	259.8	275.3	300.0	291.8	268.9	245.1	226.8	227.7
52.5°	2008.6	937.5	276.2	228.7	247.9	289.0	289.0	263.4	226.8	214.0	212.2
55°	2110.1	935.7	230.5	187.5	221.3	272.6	277.1	236.0	203.1	193.0	193.0
56°	2124.7	893.6	207.6	175.6	209.5	268.0	268.9	228.7	193.9	182.9	182.9
57.5°	2015.0	806.7	182.0	161.0	194.8	259.8	260.7	222.3	186.6	171.0	169.2
60°	1550.3	546.0	151.8	143.6	176.5	234.2	238.7	202.1	163.7	151.8	150.9
62.5°	875.3	302.8	133.5	129.9	151.8	199.4	213.1	176.5	139.0	132.6	134.5
65°	399.7	166.5	112.5	105.2	122.6	153.7	172.0	145.4	114.3	107.0	107.0
67.5°	146.3	113.4	96.0	83.2	86.0	99.7	111.6	94.2	75.9	64.9	67.7
70°	104.3	95.1	84.1	72.3	66.8	64.9	64.0	53.0	37.5	29.3	31.1
72.5°	84.1	78.7	70.4	61.3	52.1	43.9	37.5	27.4	17.4	11.9	11.0
75°	60.4	57.6	51.2	43.9	36.6	31.1	25.6	17.4	9.1	4.6	4.6
77.5°	31.1	31.1	30.2	27.4	22.9	18.3	14.6	10.1	5.5	1.8	1.8
80°	23.8	25.6	26.5	23.8	21.0	16.5	11.9	7.3	3.7	0.9	0.9
82.5°	22.9	26.5	28.4	24.7	21.0	15.5	11.9	7.3	3.7	0.9	0.9
85°	5.5	5.5	8.2	9.1	11.9	12.8	10.1	6.4	2.7	0.9	0.9
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	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)