

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: P533467

Luminaire Tested: **GALN-SA8D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30371 lumens  
Efficiency: N/A  
Efficacy: 61.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

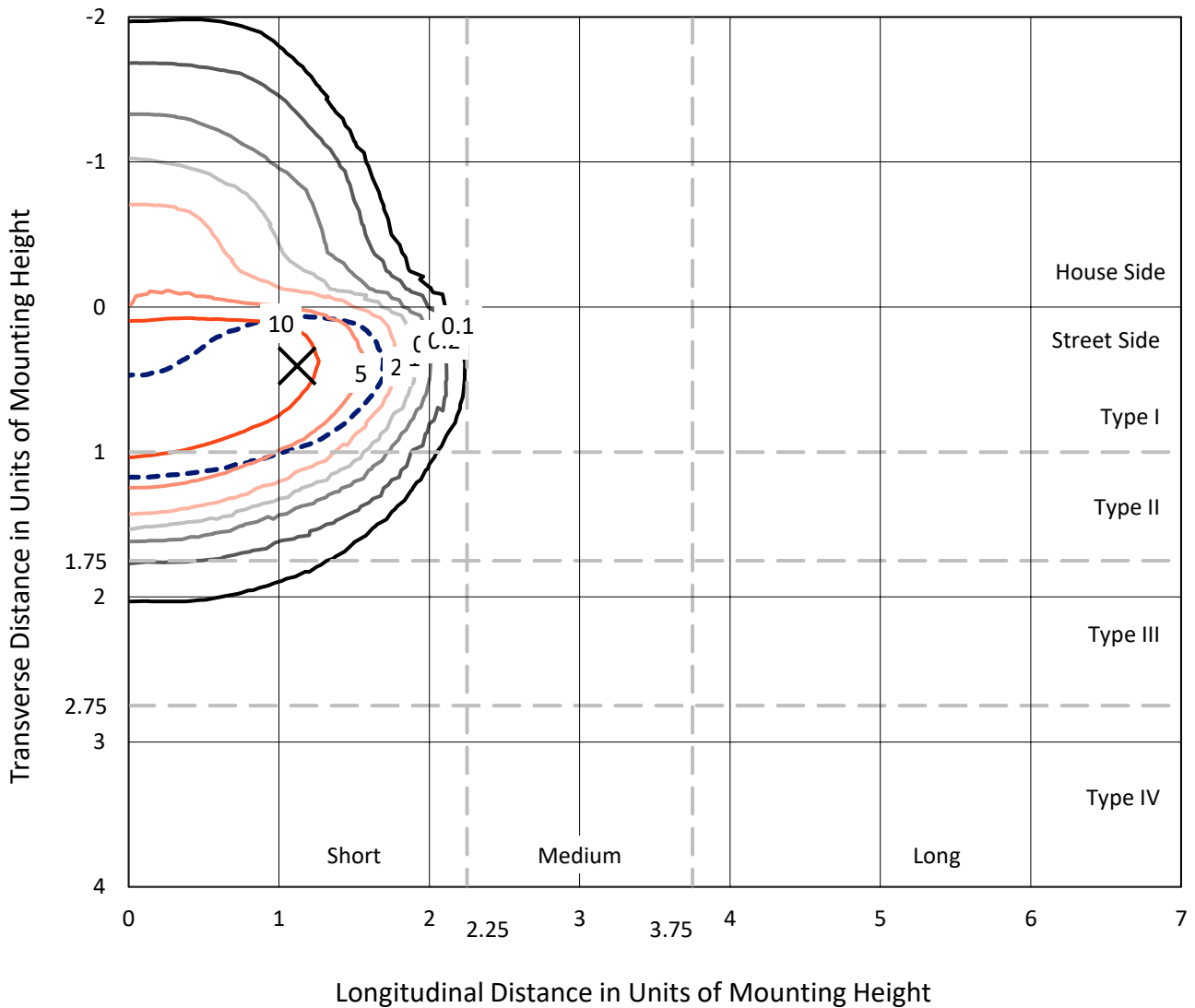
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

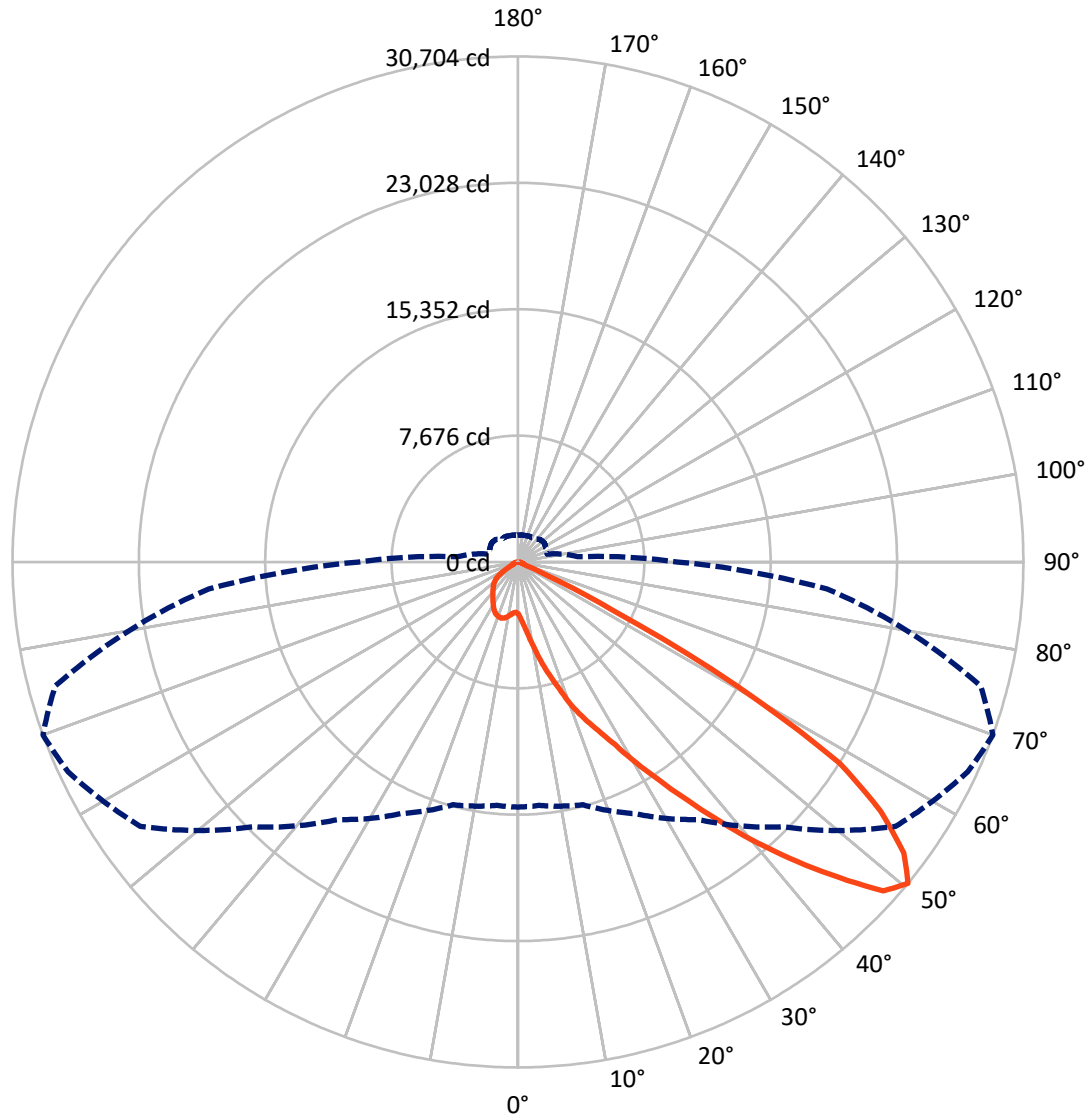
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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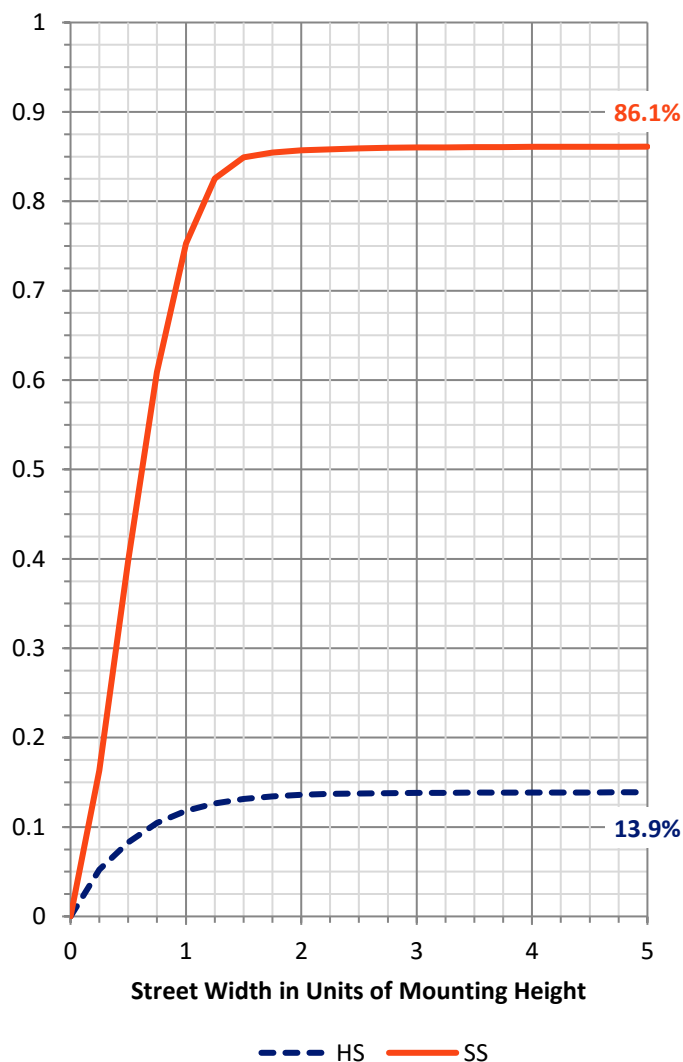
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4241.5	0.0	4241.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	26129.5	0.0	26129.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	30371.0	0.0	30371.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.1	1.3
10°-20°	1769.5	5.8
20°-30°	3712.1	12.2
30°-40°	6398.5	21.1
40°-50°	9351.3	30.8
50°-60°	7283.1	24.0
60°-70°	1234.0	4.1
70°-80°	169.5	0.6
80°-90°	43.9	0.1
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°	30371.0	100.0
0°-180°	30371.0	100.0

**Coefficient of Utilization**

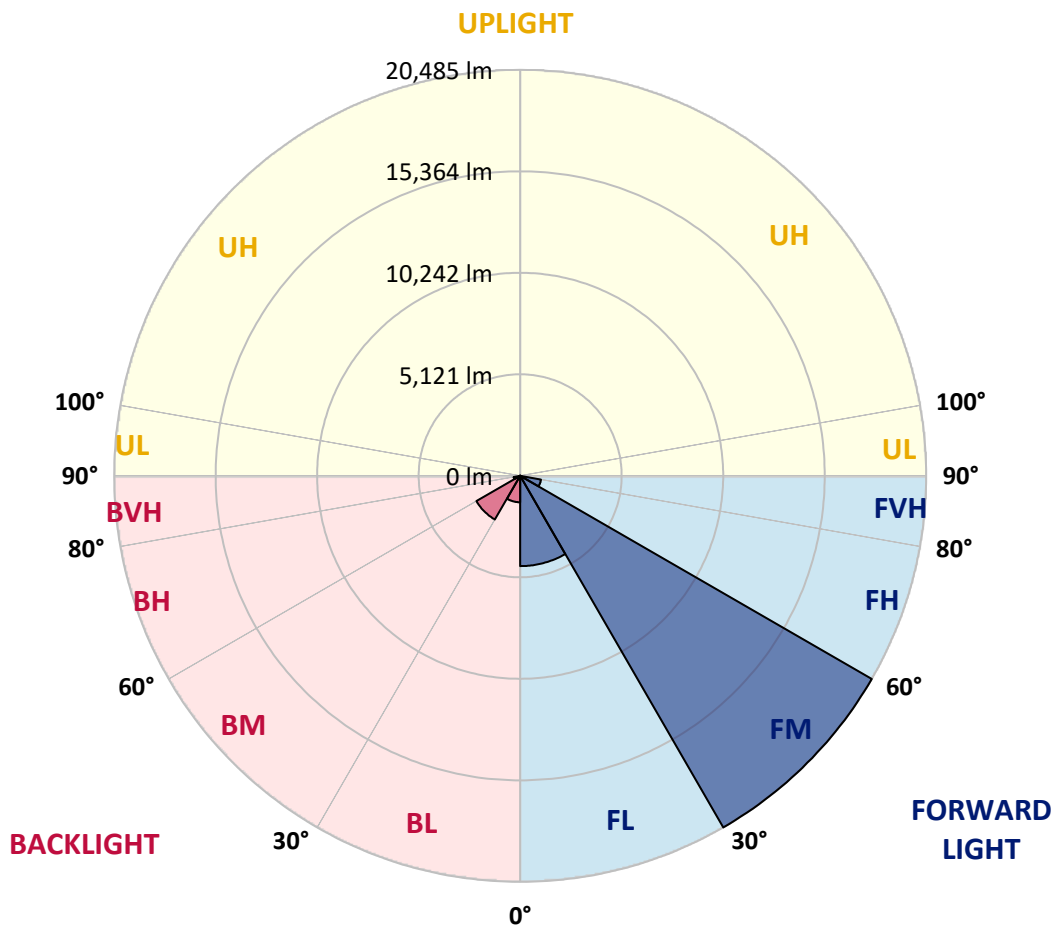


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4556.0	15.0			
FM (30°-60°)	20484.7	67.4			
FH (60°-80°)	1068.5	3.5			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1334.7	4.4	B3/2500		
BM (30°-60°)	2548.2	8.4	B3/5000		
BH (60°-80°)	335.0	1.1	B1/500		G1/500
BVH (80°-90°)	23.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8
2.5°	4119.5	4089.6	4024.7	3904.8	3854.9	3735.1	3665.2	3530.3	3445.4	3350.6	3245.7
5°	5802.3	5647.5	5552.7	5417.8	5023.4	4778.7	4374.2	4029.7	3869.9	3695.1	3455.4
7.5°	7540.0	7440.2	7310.3	7020.7	6751.1	6241.7	5547.7	4788.7	4464.1	4164.5	3690.1
10°	8978.1	8698.5	8683.5	8468.8	8174.2	7565.0	6731.1	5787.3	5208.1	4768.7	4024.7
12.5°	9981.8	9727.1	9842.0	9817.0	9542.4	8983.1	8019.4	6771.0	6166.8	5482.7	4369.2
15°	10895.6	10790.7	10755.8	10725.8	10616.0	10201.5	9337.6	7969.5	7095.6	6271.7	4758.7
17.5°	11789.4	11519.8	11649.6	11674.6	11664.6	11290.1	10481.1	9107.9	8079.3	7105.6	5168.2
20°	12583.4	12608.3	12433.5	12398.6	12368.6	12353.7	11564.7	10236.5	9287.7	7979.4	5702.5
22.5°	13602.0	13427.2	13582.0	13482.2	13287.4	13167.6	12563.4	11235.1	10336.3	9033.0	6246.7
25°	14805.4	14945.2	14580.7	14540.8	14326.0	13911.6	13367.3	12353.7	11345.0	10011.8	6836.0
27.5°	16288.4	16043.8	15948.9	15729.2	15339.7	15164.9	14525.8	13507.1	12563.4	11040.4	7405.2
30°	17561.8	17496.8	17022.5	16762.8	16423.3	16418.3	15524.5	15070.1	14151.3	12653.3	8189.2
32.5°	18600.4	18315.8	18141.0	17961.2	17686.6	17761.5	17007.5	16767.8	15844.0	14151.3	9112.9
35°	19294.5	19089.7	18984.9	18710.2	18630.3	18964.9	18650.3	18550.5	17791.5	16258.5	10196.5
37.5°	19514.2	19579.1	19559.1	19214.6	19384.4	20288.2	20692.6	20433.0	20033.5	18480.5	11370.0
40°	19708.9	19753.9	19654.0	20058.5	20542.8	21571.5	23034.5	22605.1	22455.3	20732.6	13002.8
42.5°	19818.8	19783.8	19783.8	20482.9	21216.9	23284.2	25296.5	25011.9	24897.1	23129.4	14890.3
45°	19344.4	19004.9	19369.4	20318.1	21796.2	24128.1	27104.1	27498.6	27333.8	25980.6	17097.4
47.5°	17571.7	17781.5	17986.2	19254.5	21092.1	23868.4	28212.7	29555.9	29860.5	28377.5	18545.5
50°	14890.3	14845.4	15269.8	16867.7	19099.7	22749.9	27998.0	30150.1	30704.4	29096.5	18850.1
52.5°	10830.7	11160.2	11619.6	13207.5	15854.0	19853.7	25226.6	28617.1	29356.2	28212.7	18650.3
55°	6306.7	5942.1	6975.8	8319.0	10815.7	14975.2	21326.8	25366.4	26734.6	26604.8	17641.7
57.5°	2526.7	2446.8	2801.3	3775.0	5642.5	9282.7	15509.5	20842.4	23034.5	24367.8	15504.5
60°	1108.5	1083.6	1273.3	1538.0	2306.9	4279.3	8483.8	12962.8	15249.8	17027.5	10670.9
62.5°	798.9	789.0	883.8	978.7	1218.4	1862.5	3565.3	5223.1	6511.4	7864.6	4778.7
65°	644.1	669.1	734.0	784.0	898.8	1033.6	1258.3	1453.1	1782.6	1847.6	1053.6
67.5°	524.3	544.3	604.2	659.1	679.1	559.3	579.2	509.3	509.3	454.4	364.5
70°	384.5	389.5	459.4	524.3	419.4	224.7	394.5	394.5	354.5	339.6	309.6
72.5°	284.6	289.6	344.5	324.6	164.8	139.8	289.6	319.6	289.6	274.6	249.7
75°	209.7	214.7	179.8	74.9	69.9	89.9	169.8	219.7	209.7	204.7	189.7
77.5°	39.9	30.0	25.0	35.0	49.9	74.9	109.9	134.8	139.8	149.8	139.8
80°	5.0	5.0	15.0	30.0	54.9	79.9	114.8	129.8	134.8	139.8	129.8
82.5°	0.0	5.0	15.0	30.0	54.9	74.9	99.9	114.8	124.8	129.8	124.8
85°	0.0	5.0	10.0	25.0	44.9	54.9	49.9	35.0	30.0	35.0	25.0
87.5°	0.0	0.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8	3145.8
2.5°	3185.8	3165.8	3095.9	3021.0	2956.1	2986.0	2956.1	2931.1	2941.1	2931.1	2921.1
5°	3360.6	3270.7	3120.9	3056.0	3001.0	2996.0	2981.1	2976.1	2981.1	2981.1	2936.1
7.5°	3525.3	3380.5	3220.7	3150.8	3085.9	3090.9	3056.0	3056.0	3051.0	3026.0	3016.0
10°	3775.0	3580.3	3375.5	3250.7	3170.8	3155.8	3120.9	3085.9	3085.9	3085.9	3036.0
12.5°	4049.6	3805.0	3525.3	3380.5	3285.7	3210.8	3155.8	3145.8	3090.9	3080.9	3056.0
15°	4289.3	3979.7	3625.2	3425.5	3305.6	3205.8	3120.9	3065.9	3041.0	3026.0	3006.0
17.5°	4524.0	4129.5	3680.1	3425.5	3295.6	3180.8	3090.9	3041.0	2981.1	2991.0	2951.1
20°	4838.6	4289.3	3695.1	3360.6	3200.8	3090.9	2971.1	2946.1	2911.1	2881.2	2891.2
22.5°	5143.2	4404.2	3650.2	3280.7	3051.0	2921.1	2861.2	2831.3	2816.3	2791.3	2756.4
25°	5417.8	4529.0	3580.3	3135.9	2891.2	2796.3	2741.4	2736.4	2701.4	2701.4	2636.5
27.5°	5697.5	4573.9	3460.4	2966.1	2751.4	2696.4	2671.5	2661.5	2646.5	2611.5	2566.6
30°	6017.0	4588.9	3285.7	2791.3	2626.5	2566.6	2601.6	2626.5	2561.6	2496.7	2516.7
32.5°	6281.7	4554.0	3075.9	2626.5	2536.6	2506.7	2576.6	2601.6	2526.7	2456.7	2421.8
35°	6601.3	4469.1	2871.2	2496.7	2446.8	2506.7	2566.6	2566.6	2416.8	2331.9	2311.9
37.5°	7085.6	4374.2	2681.5	2386.8	2351.9	2476.7	2556.6	2501.7	2267.0	2162.1	2137.2
40°	7604.9	4314.3	2496.7	2277.0	2302.0	2426.8	2471.7	2302.0	2062.3	1997.4	1977.4
42.5°	8358.9	4194.5	2331.9	2182.1	2257.0	2356.9	2356.9	2052.3	1962.4	1927.4	1922.5
45°	9297.7	4109.6	2187.1	2102.2	2192.1	2217.1	2137.2	1922.5	1857.5	1847.6	1852.5
47.5°	9757.1	3944.8	2037.3	2007.3	2072.3	2077.3	1867.5	1817.6	1762.7	1747.7	1737.7
50°	9687.2	3650.2	1842.6	1882.5	1972.4	1922.5	1702.7	1712.7	1662.8	1657.8	1632.8
52.5°	9197.8	3185.8	1647.8	1742.7	1842.6	1697.8	1567.9	1557.9	1557.9	1493.0	1468.1
55°	8154.2	2566.6	1413.1	1533.0	1652.8	1428.1	1393.2	1383.2	1358.2	1298.3	1283.3
57.5°	6456.5	1882.5	1063.6	1193.4	1403.1	1213.4	1208.4	1163.5	1098.5	1053.6	1053.6
60°	3839.9	1083.6	669.1	729.0	928.8	983.7	1093.6	1073.6	963.7	893.8	873.8
62.5°	1752.7	559.3	424.4	434.4	499.3	639.2	858.9	993.7	838.9	719.0	709.1
65°	589.2	414.5	349.5	334.6	344.5	384.5	514.3	704.1	669.1	554.3	534.3
67.5°	359.5	369.5	329.6	304.6	304.6	299.6	294.6	319.6	394.5	384.5	389.5
70°	309.6	339.6	304.6	274.6	264.6	249.7	209.7	174.8	149.8	174.8	184.8
72.5°	249.7	269.6	259.7	234.7	209.7	189.7	149.8	114.8	84.9	74.9	74.9
75°	184.8	199.7	209.7	179.8	159.8	134.8	109.9	74.9	44.9	30.0	30.0
77.5°	134.8	149.8	154.8	139.8	119.8	94.9	69.9	49.9	25.0	10.0	10.0
80°	114.8	134.8	149.8	139.8	124.8	89.9	64.9	35.0	20.0	5.0	5.0
82.5°	109.9	134.8	149.8	134.8	119.8	84.9	64.9	39.9	15.0	5.0	5.0
85°	25.0	35.0	44.9	54.9	64.9	64.9	49.9	30.0	15.0	5.0	5.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	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)