

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: P527604

Luminaire Tested: **GALN-SA2C-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9378 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

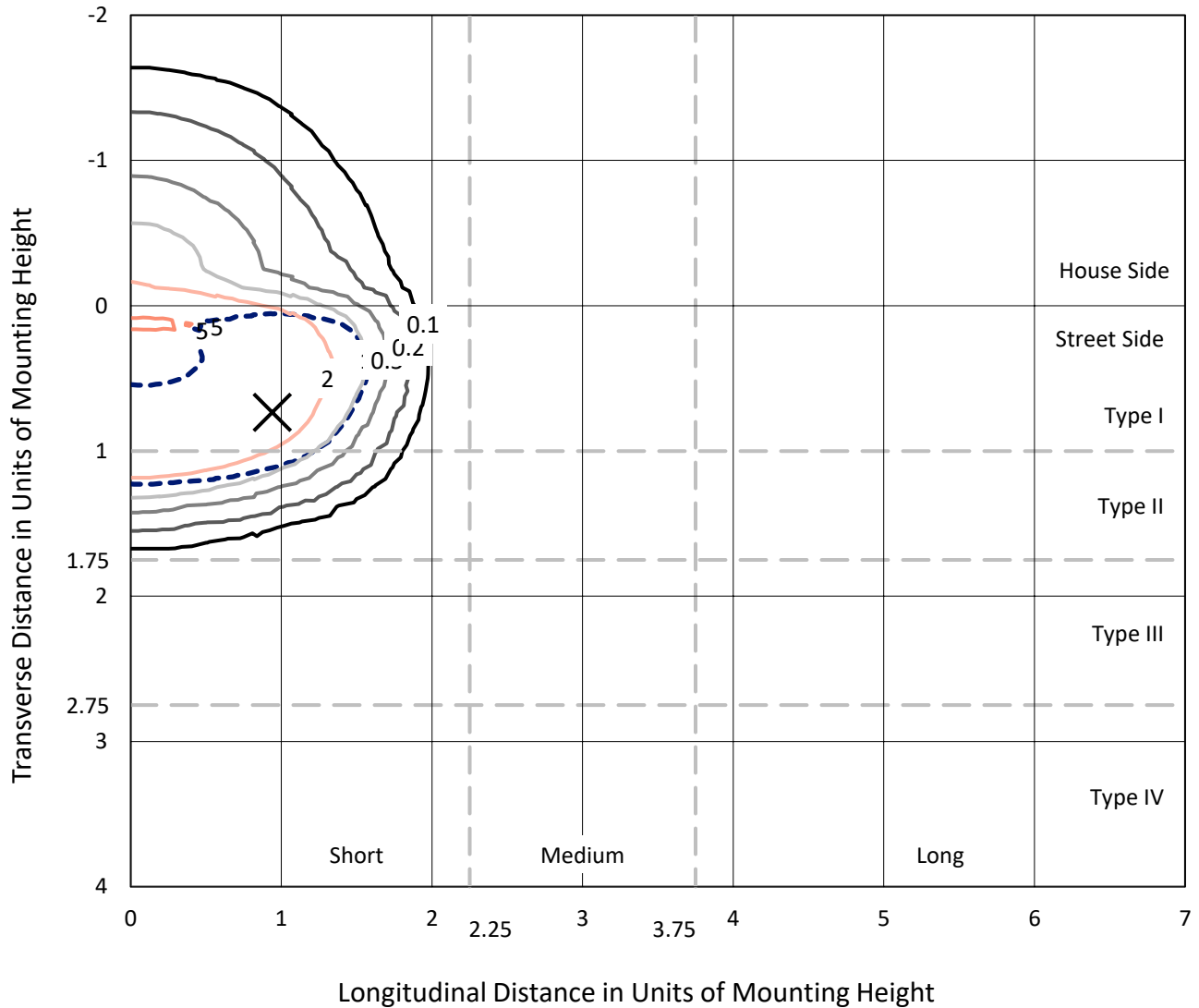
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2C-827-U-AFL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

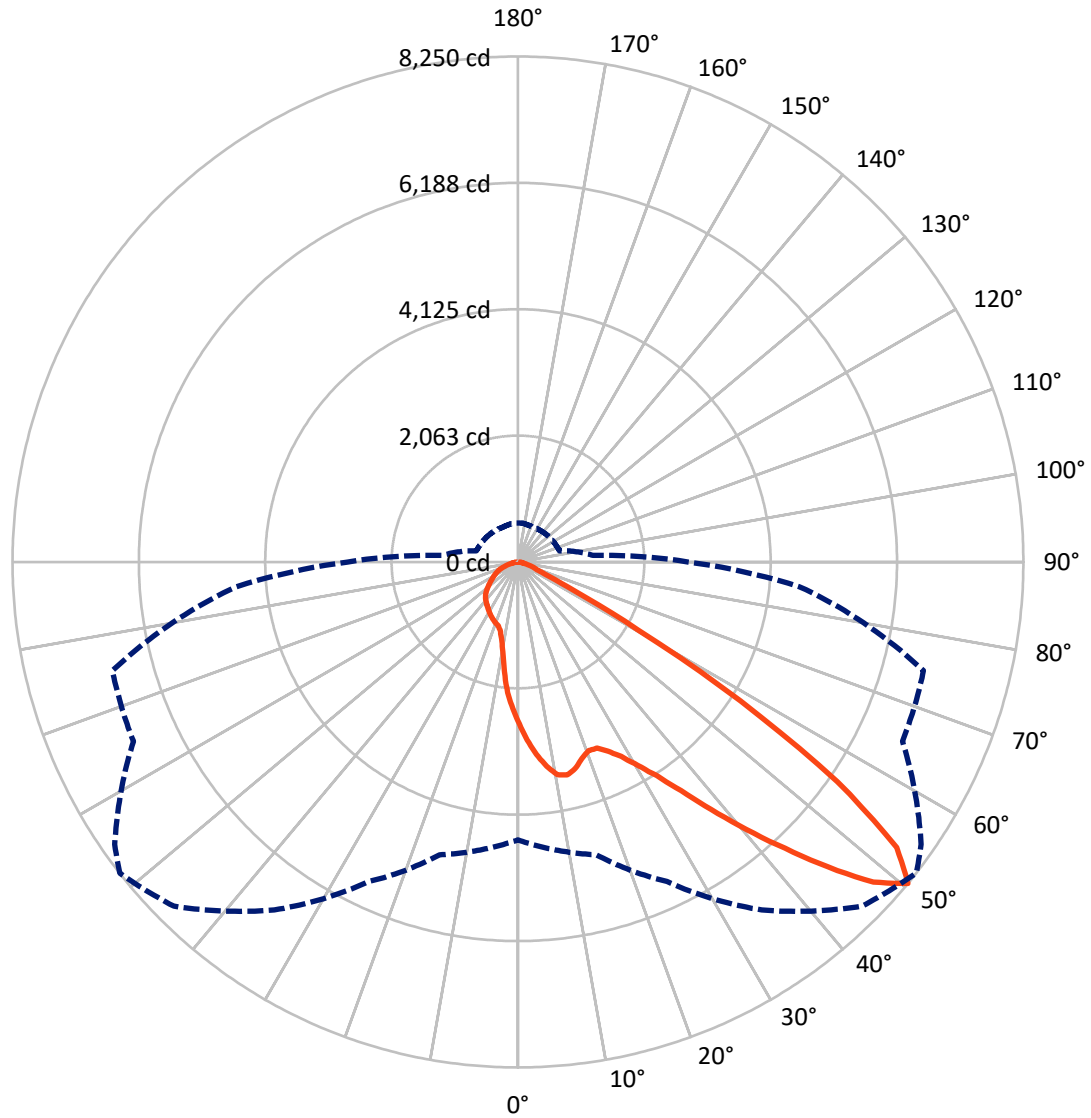
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P527604  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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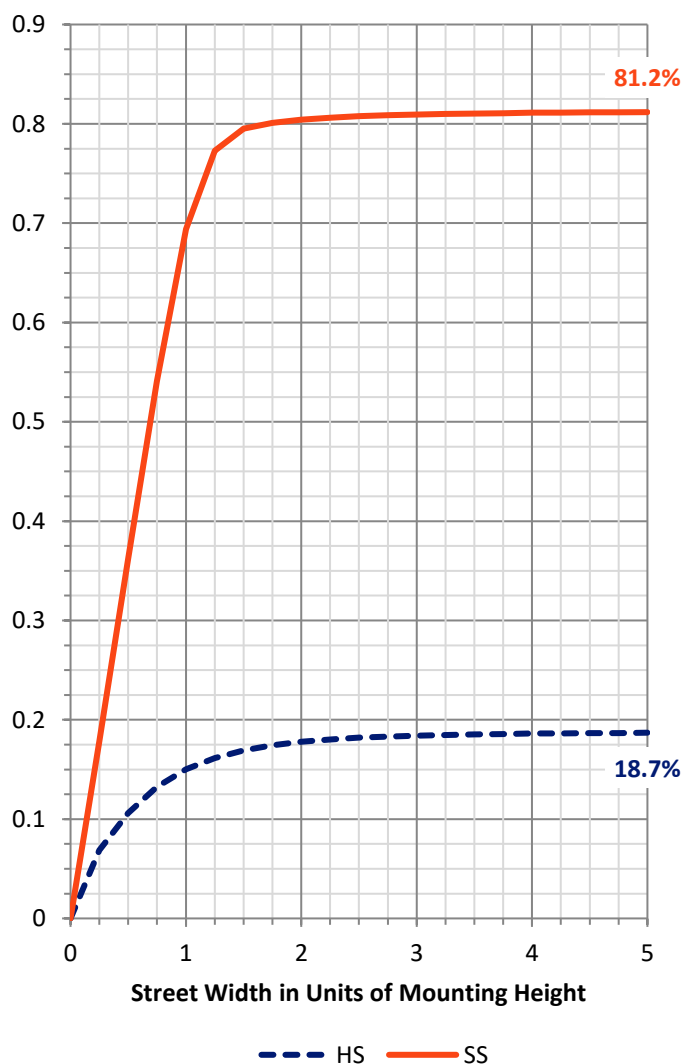
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1762.8	0.0	1762.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	7615.2	0.0	7615.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	9378.0	0.0	9378.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.7	2.6
10°-20°	653.0	7.0
20°-30°	1100.0	11.7
30°-40°	1845.9	19.7
40°-50°	2823.8	30.1
50°-60°	2058.8	22.0
60°-70°	458.2	4.9
70°-80°	165.3	1.8
80°-90°	29.3	0.3
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°	9378.0	100.0
0°-180°	9378.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527604

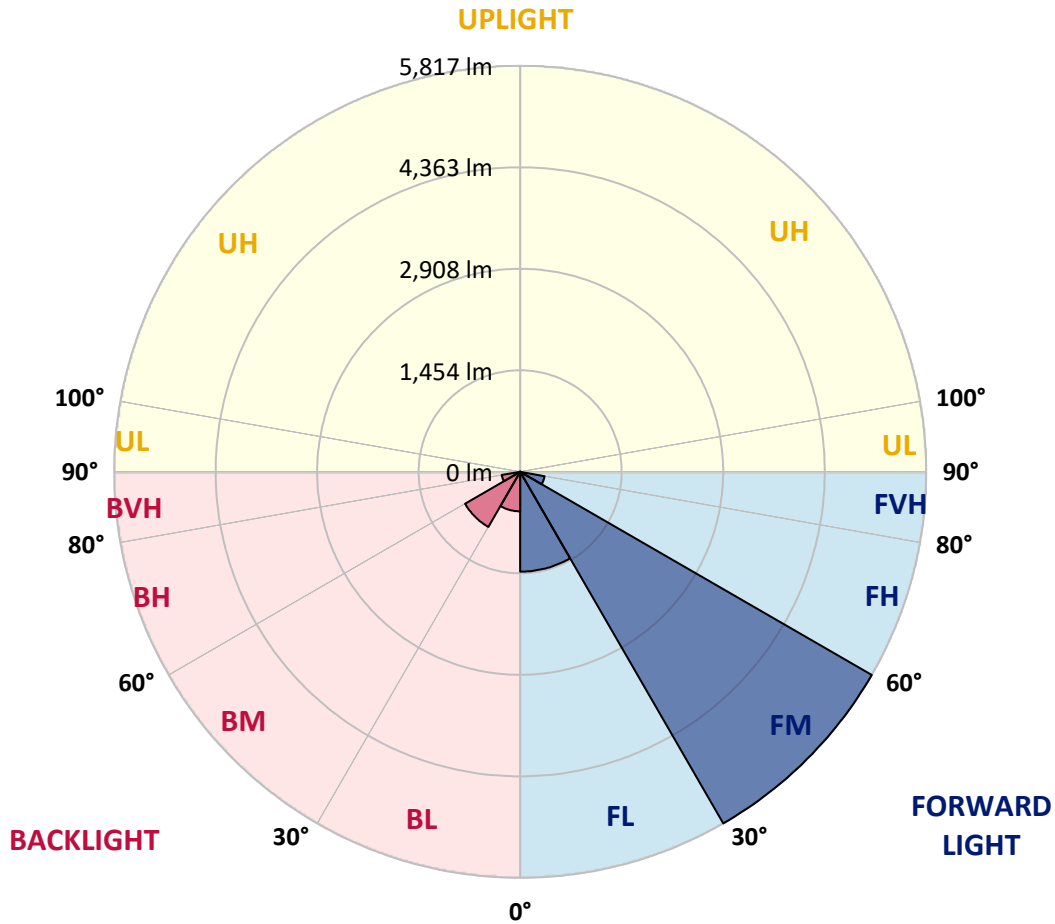
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.5	15.3			
FM (30°-60°)	5816.7	62.0			
FH (60°-80°)	354.9	3.8			G0/660
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	566.3	6.0	B2/1000		
BM (30°-60°)	911.9	9.7	B1/1000		
BH (60°-80°)	268.6	2.9	B1/500		G1/500
BVH (80°-90°)	16.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





REPORT NUMBER: P527604

CATALOG NUMBER: GALN-SA2C-827-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5
2.5°	3112.5	3052.6	3059.4	3016.5	2970.1	2956.6	2909.1	2863.9	2830.0	2757.7	2691.0
5°	3401.9	3383.8	3356.6	3322.7	3287.7	3201.8	3153.2	3096.7	2972.4	2860.5	2749.7
7.5°	3443.7	3440.3	3455.0	3455.0	3467.4	3434.6	3365.7	3326.1	3193.9	3011.9	2806.2
10°	3149.8	3160.0	3231.2	3323.9	3452.7	3542.0	3530.7	3520.5	3375.9	3127.2	2872.9
12.5°	2915.9	2893.3	2935.1	3014.2	3207.5	3423.3	3569.1	3570.3	3533.0	3311.4	2921.5
15°	2783.6	2799.5	2810.8	2848.1	2993.9	3243.6	3500.2	3575.9	3739.8	3441.4	2998.4
17.5°	2868.4	2815.3	2813.0	2822.1	2896.7	3084.3	3372.5	3502.4	3852.8	3608.7	3093.3
20°	2979.2	2978.0	2946.4	2935.1	2934.0	3101.2	3288.8	3465.1	3912.7	3825.7	3189.4
22.5°	3173.6	3173.6	3121.6	3096.7	3043.6	3180.3	3300.1	3419.9	4012.2	3974.9	3235.7
25°	3499.1	3445.9	3356.6	3295.6	3265.1	3313.7	3419.9	3527.3	4099.2	4133.1	3331.8
27.5°	3799.7	3716.0	3672.0	3566.9	3526.2	3497.9	3595.1	3703.6	4200.9	4379.5	3383.8
30°	4141.0	4126.3	4047.2	3911.6	3811.0	3759.0	3848.3	3955.6	4387.4	4631.5	3503.6
32.5°	4751.3	4617.9	4510.6	4344.4	4180.6	4069.8	4158.0	4229.2	4697.0	4894.8	3634.7
35°	5410.2	5367.2	5181.9	4882.4	4631.5	4532.0	4584.0	4637.1	5057.6	5297.2	3855.1
37.5°	6057.8	5999.0	5846.4	5594.4	5289.3	5087.0	5124.3	5186.4	5462.2	5839.7	4124.0
40°	6523.4	6451.1	6374.2	6336.9	6034.1	5757.2	5735.7	5751.5	6009.2	6348.2	4422.4
42.5°	6557.3	6646.6	6670.4	6820.7	6749.5	6522.3	6390.1	6393.5	6531.3	6851.2	4724.2
45°	6486.1	6403.6	6578.8	6989.1	7224.1	7330.4	7107.7	7079.5	6854.6	7142.8	4874.5
47.5°	5739.1	5761.7	6057.8	6706.5	7385.8	7860.4	7808.4	7714.6	7027.5	7132.6	4850.8
50°	4536.6	4673.3	4947.9	5756.0	6933.7	7944.1	8250.4	8033.4	6924.6	6852.3	4608.9
52.5°	3021.0	3077.5	3258.3	4301.5	5575.2	7101.0	7741.8	7791.5	6829.7	6485.0	4302.6
55°	1344.9	1340.4	1594.7	2246.8	3497.9	5403.4	6325.6	6628.5	6464.7	6110.9	4004.2
57.5°	569.6	588.8	692.8	970.8	1720.1	3260.6	4285.7	4551.3	4971.7	5018.0	3071.8
60°	385.4	387.7	415.9	486.0	719.9	1531.4	2247.9	2566.7	2867.3	2846.9	1629.7
62.5°	302.9	310.8	332.3	360.5	427.2	695.1	1005.9	1183.3	1202.5	1011.5	618.2
65°	258.8	259.9	281.4	305.1	334.5	404.6	484.8	493.9	499.5	481.5	454.3
67.5°	213.6	215.9	232.8	259.9	287.1	309.7	332.3	343.6	369.6	420.4	413.6
70°	169.5	172.9	187.6	210.2	235.1	248.6	276.9	287.1	310.8	350.4	366.2
72.5°	128.8	130.0	142.4	158.2	180.8	194.4	218.1	229.4	245.3	279.2	293.8
75°	92.7	96.1	105.1	113.0	116.4	125.5	148.1	160.5	183.1	197.8	198.9
77.5°	48.6	50.9	53.1	53.1	64.4	81.4	96.1	102.8	118.7	130.0	124.3
80°	19.2	20.3	26.0	35.0	45.2	58.8	68.9	72.3	85.9	92.7	96.1
82.5°	11.3	12.4	17.0	24.9	32.8	41.8	49.7	53.1	62.2	70.1	72.3
85°	5.7	6.8	10.2	15.8	21.5	26.0	24.9	23.7	23.7	22.6	23.7
87.5°	2.3	2.3	3.4	3.4	3.4	4.5	5.7	5.7	5.7	6.8	6.8
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: P527604

CATALOG NUMBER: GALN-SA2C-827-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5	2643.5
2.5°	2646.9	2601.7	2559.9	2483.0	2399.4	2375.6	2278.5	2243.4	2218.6	2189.2	2180.1
5°	2660.5	2600.6	2466.1	2311.2	2188.0	2029.8	1925.8	1813.9	1732.6	1712.2	1706.6
7.5°	2688.7	2585.9	2354.2	2120.2	1868.2	1653.5	1489.6	1401.4	1323.4	1318.9	1311.0
10°	2720.4	2541.8	2232.1	1864.8	1542.7	1343.8	1245.5	1207.0	1187.8	1183.3	1181.0
12.5°	2746.3	2532.7	2095.4	1616.2	1312.1	1192.3	1163.0	1159.6	1167.5	1169.7	1174.3
15°	2757.7	2496.6	1930.4	1393.5	1168.6	1124.5	1137.0	1150.5	1156.2	1170.9	1159.6
17.5°	2779.1	2450.2	1726.9	1217.2	1088.4	1096.3	1117.8	1133.6	1142.6	1152.8	1138.1
20°	2790.4	2408.4	1535.9	1112.1	1060.1	1074.8	1104.2	1116.6	1127.9	1132.4	1115.5
22.5°	2780.3	2322.5	1367.5	1027.3	1033.0	1052.2	1078.2	1091.8	1085.0	1066.9	1056.7
25°	2753.1	2201.6	1192.3	973.1	994.6	1028.5	1048.8	1038.6	1026.2	1016.0	1012.6
27.5°	2752.0	2053.5	1065.8	923.4	961.8	1008.1	1001.3	992.3	998.0	990.0	981.0
30°	2757.7	1910.0	961.8	895.1	938.1	960.7	968.6	959.5	966.3	951.6	956.1
32.5°	2728.3	1769.9	894.0	862.3	909.8	908.7	934.7	941.4	925.6	895.1	899.6
35°	2740.7	1656.9	836.3	847.6	878.2	878.2	898.5	890.6	848.8	830.7	835.2
37.5°	2826.6	1546.1	808.1	827.3	847.6	856.7	849.9	816.0	805.8	805.8	808.1
40°	2908.0	1451.2	791.1	822.8	819.4	825.0	775.3	778.7	778.7	779.8	774.2
42.5°	2980.3	1386.7	777.6	795.7	801.3	771.9	741.4	738.0	745.9	744.8	740.3
45°	3006.3	1333.6	758.4	765.1	769.7	721.1	706.4	699.6	708.6	712.0	716.5
47.5°	2906.8	1289.5	736.9	723.3	714.3	682.6	663.4	651.0	662.3	681.5	686.0
50°	2779.1	1231.9	703.0	677.0	657.8	644.2	630.6	618.2	626.1	639.7	636.3
52.5°	2590.4	1141.5	660.0	632.9	600.1	603.5	591.1	584.3	588.8	588.8	585.4
55°	2321.4	938.1	587.7	568.5	541.4	550.4	552.7	543.6	534.6	542.5	535.7
57.5°	1584.5	662.3	524.4	524.4	497.3	509.7	508.6	487.1	465.6	467.9	463.4
60°	916.6	527.8	483.7	479.2	450.9	461.1	463.4	448.7	415.9	418.2	413.6
62.5°	521.0	450.9	422.7	415.9	410.3	419.3	419.3	400.1	371.8	374.1	369.6
65°	443.0	418.2	377.5	376.4	374.1	376.4	367.3	347.0	322.1	311.9	313.1
67.5°	402.3	386.5	347.0	336.8	330.0	328.9	311.9	292.7	281.4	272.4	271.2
70°	352.6	340.2	310.8	297.2	290.5	274.6	257.7	245.3	229.4	224.9	229.4
72.5°	279.2	278.0	266.7	252.0	237.3	224.9	210.2	193.3	178.6	175.2	167.3
75°	193.3	195.5	197.8	195.5	183.1	167.3	150.3	136.8	118.7	108.5	106.2
77.5°	126.6	130.0	133.4	128.8	120.9	106.2	94.9	78.0	64.4	56.5	55.4
80°	92.7	97.2	99.5	96.1	87.0	75.7	63.3	49.7	39.6	32.8	32.8
82.5°	71.2	75.7	78.0	72.3	63.3	54.2	45.2	35.0	27.1	21.5	20.3
85°	24.9	23.7	28.3	29.4	35.0	32.8	27.1	20.3	15.8	11.3	10.2
87.5°	6.8	6.8	7.9	7.9	6.8	5.7	5.7	5.7	4.5	3.4	3.4
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)