

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: P533926

Luminaire Tested: **GALN-SA9B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32141 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

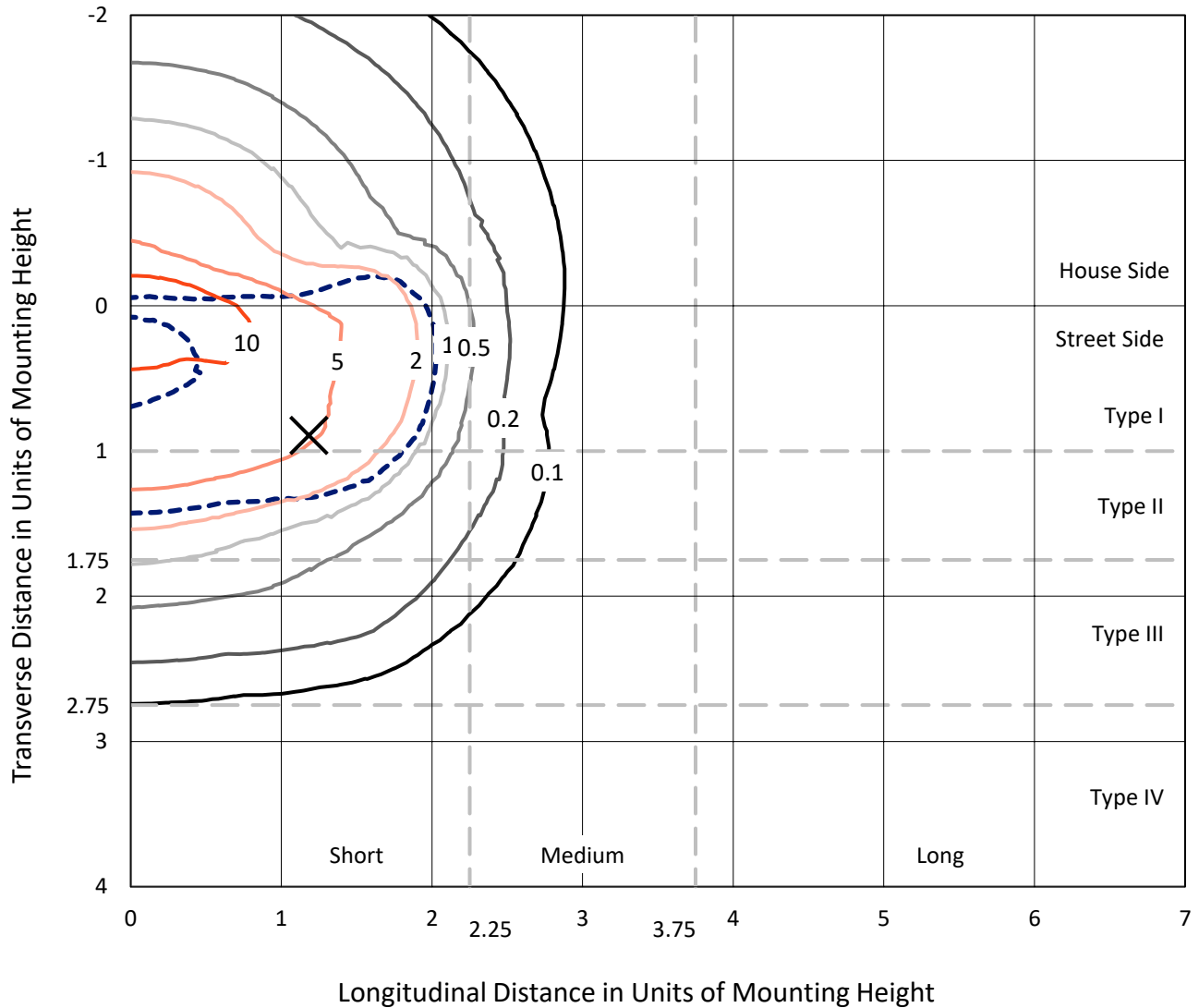
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

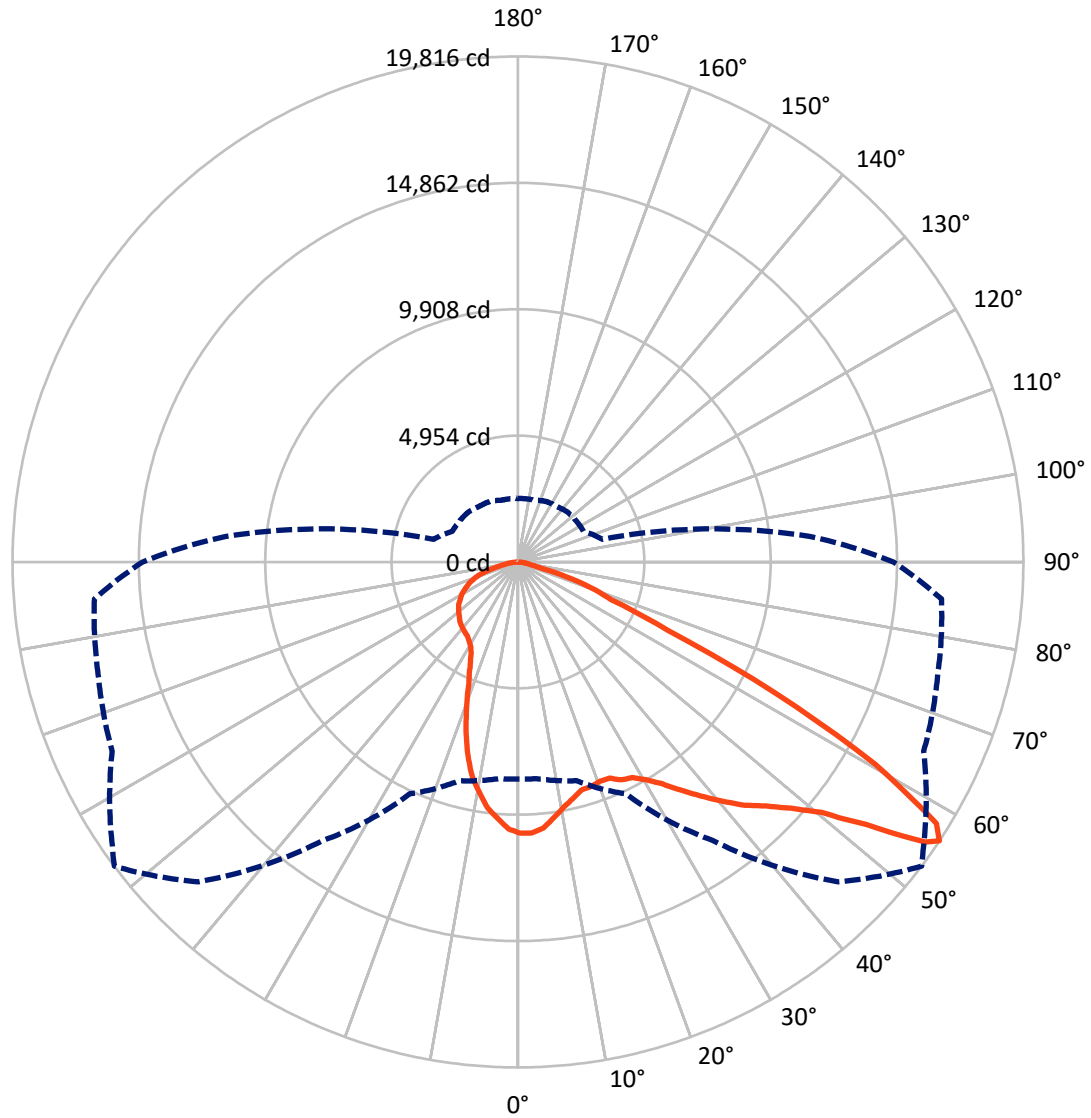
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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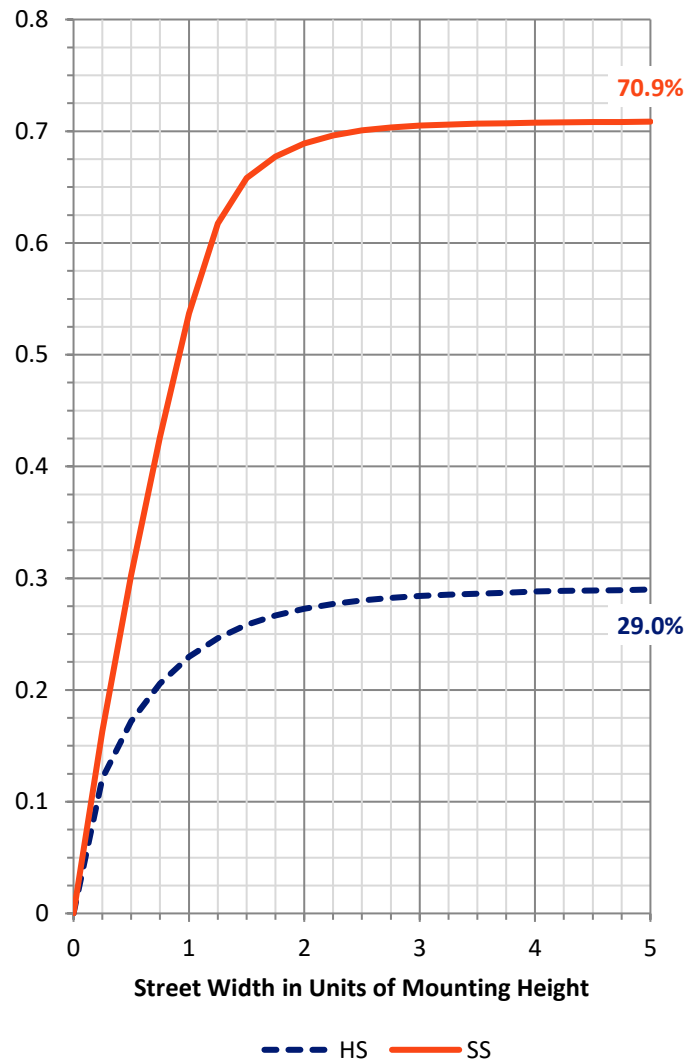
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9379.4	0.0	9379.4
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	22761.6	0.0	22761.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	32141.0	0.0	32141.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	941.4	2.9
10°-20°	2351.1	7.3
20°-30°	3466.9	10.8
30°-40°	4953.6	15.4
40°-50°	6818.0	21.2
50°-60°	8057.0	25.1
60°-70°	4293.8	13.4
70°-80°	1089.3	3.4
80°-90°	169.9	0.5
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°	32141.0	100.0
0°-180°	32141.0	100.0



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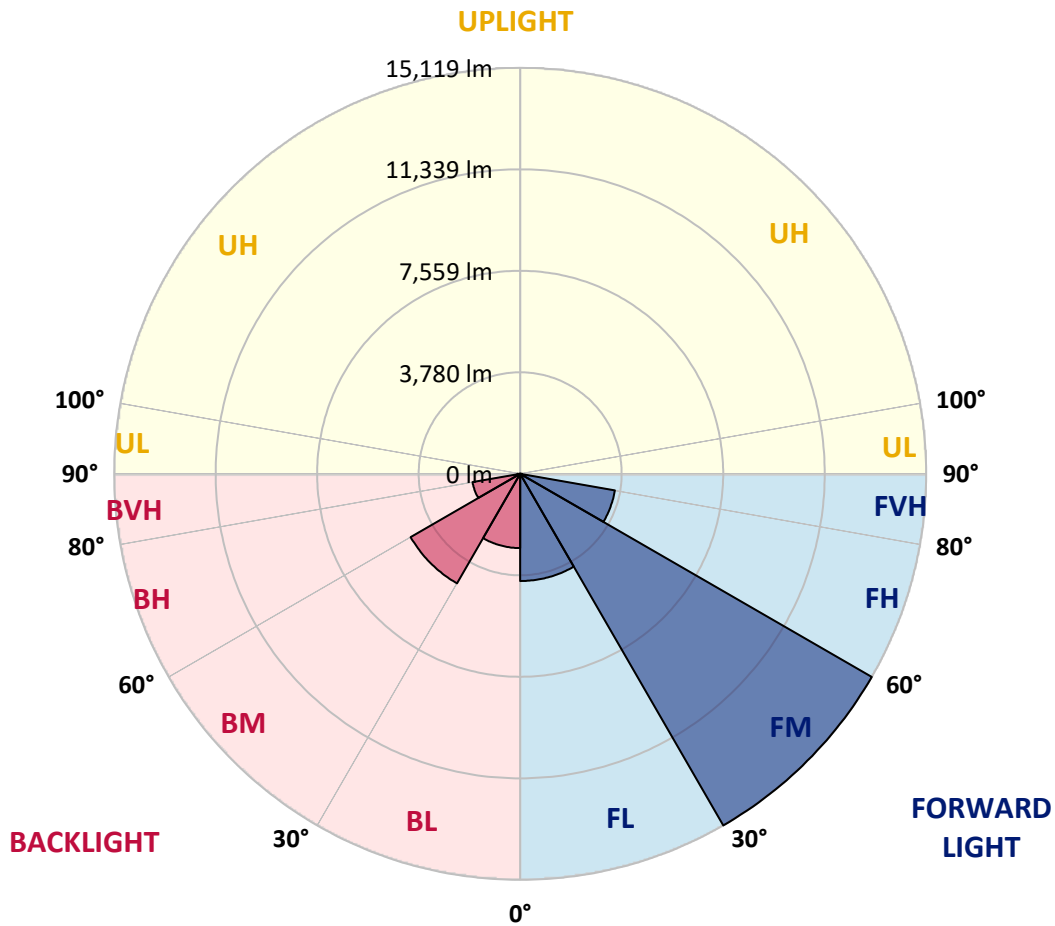
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3993.1	12.4			
FM (30°-60°)	15118.5	47.0			
FH (60°-80°)	3581.7	11.1			G2/5000
FVH (80°-90°)	68.3	0.2			G1/100
BL (0°-30°)	2766.4	8.6	B4/5000		
BM (30°-60°)	4710.0	14.7	B3/5000		
BH (60°-80°)	1801.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	101.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5
2.5°	10501.6	10410.9	10464.5	10443.8	10612.9	10662.4	10637.6	10658.2	10753.1	10707.7	10612.9
5°	9813.0	9940.8	9965.6	10027.4	10126.4	10320.2	10472.7	10513.9	10559.3	10769.6	10749.0
7.5°	9186.3	9272.9	9227.5	9408.9	9623.3	9936.7	10122.2	10155.2	10571.7	10687.1	10773.7
10°	8790.5	8703.9	8910.0	8959.5	9202.8	9561.5	9784.1	9920.2	10299.5	10757.2	10810.8
12.5°	8423.5	8394.7	8518.4	8658.5	8930.7	9301.7	9528.5	9582.1	10167.6	10650.0	10901.5
15°	8151.4	8118.4	8242.1	8345.2	8662.7	8992.5	9281.1	9433.7	10023.3	10588.2	10823.2
17.5°	7937.0	7932.9	8003.0	8188.5	8514.2	8790.5	9256.4	9264.6	9949.1	10683.0	10889.1
20°	7924.6	7920.5	7932.9	8139.0	8435.9	8774.0	9178.1	9252.3	9949.1	10617.0	10893.3
22.5°	8027.7	7961.7	8035.9	8167.9	8382.3	8802.8	9206.9	9371.8	10188.2	10942.7	11078.8
25°	8192.6	8209.1	8250.3	8295.7	8419.4	8868.8	9462.5	9598.6	10468.6	11223.1	11334.4
27.5°	8493.6	8485.4	8501.9	8526.6	8633.8	8930.7	9565.6	9916.1	11054.1	11722.0	11610.7
30°	8934.8	8905.9	8971.9	9058.5	8959.5	9128.6	9907.8	10171.7	11598.3	12225.0	11919.9
32.5°	9334.7	9441.9	9565.6	9602.7	9483.2	9516.1	10361.4	10629.4	12051.9	12843.5	12299.2
35°	9833.6	9920.2	10085.1	10200.6	10180.0	10081.0	10979.9	11334.4	12707.4	13297.0	12699.2
37.5°	10320.2	10423.2	10695.4	11037.6	10847.9	10802.6	11639.5	11932.3	12909.5	13540.3	12991.9
40°	11103.5	11099.4	11569.5	11746.8	11915.8	11837.5	12324.0	12422.9	13016.7	13486.7	13000.2
42.5°	12023.0	11965.3	12443.6	12719.8	12938.3	12946.6	13037.3	13004.3	13066.1	13214.6	12913.6
45°	12897.1	13020.8	13503.2	13998.0	14216.5	14241.2	13639.3	13577.4	13152.7	13136.2	12748.7
47.5°	13965.0	13993.8	14389.7	15041.1	15548.3	15375.1	14418.5	14282.5	13532.1	13659.9	13024.9
50°	14026.8	14241.2	14595.8	15362.7	16921.3	16875.9	15428.7	15173.1	14142.3	14402.0	13795.9
52.5°	12732.2	12682.7	13103.3	14356.7	16818.2	18368.5	17102.7	16492.5	15453.4	15255.5	15045.2
55°	9701.7	9817.1	10188.2	11454.0	14604.1	18389.1	19382.8	18883.9	16855.3	16517.2	16273.9
56°	8510.1	8526.6	8877.1	10031.5	13325.9	17733.5	19815.7	19411.6	17552.1	17036.7	16665.6
57.5°	7054.6	6959.8	7141.2	7772.1	11247.9	16348.1	19341.5	19737.3	18368.5	17597.4	17082.1
60°	5553.8	5533.2	5459.0	5574.4	7108.2	12315.7	16100.8	16991.4	18286.0	17069.7	16360.5
62.5°	4535.4	4432.3	4580.8	4745.7	4939.5	7640.1	11313.8	11837.5	14517.5	13626.9	12291.0
65°	3517.0	3467.5	3653.1	4189.1	4304.5	4852.9	6444.4	6848.5	8572.0	8419.4	7413.4
67.5°	2420.3	2428.5	2589.3	3405.7	3991.2	3941.7	3945.8	4156.1	4473.6	3323.2	2894.4
70°	1533.8	1529.7	1616.3	2193.5	3211.9	3244.9	3080.0	3018.1	2861.4	1731.7	1834.8
72.5°	985.4	956.6	1001.9	1212.2	1661.6	1921.4	1979.1	2016.2	1657.5	1360.6	1476.1
75°	556.6	527.8	511.3	564.9	655.6	758.7	832.9	857.6	960.7	1030.8	1092.6
77.5°	169.0	152.6	185.5	247.4	325.7	437.1	531.9	548.4	647.3	729.8	791.6
80°	74.2	82.5	115.4	164.9	230.9	309.2	375.2	399.9	465.9	527.8	544.3
82.5°	45.4	49.5	78.3	111.3	160.8	218.5	268.0	276.2	342.2	391.7	404.1
85°	16.5	20.6	41.2	66.0	103.1	140.2	140.2	152.6	140.2	140.2	152.6
87.5°	0.0	0.0	4.1	8.2	8.2	12.4	16.5	16.5	20.6	24.7	28.9
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°	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5	10633.5
2.5°	10662.4	10641.8	10608.8	10489.2	10476.8	10439.7	10233.6	10200.6	10233.6	10134.6	10142.9
5°	10641.8	10703.6	10456.2	10336.6	10114.0	9953.2	9767.7	9672.8	9503.8	9396.6	9516.1
7.5°	10732.5	10707.7	10398.5	10138.7	9804.8	9396.6	9070.8	8885.3	8588.4	8506.0	8567.8
10°	10699.5	10567.5	10204.7	9862.5	9231.7	8872.9	8345.2	7833.9	7553.5	7409.2	7388.6
12.5°	10654.1	10617.0	10010.9	9421.3	8757.5	8003.0	7260.8	6778.4	6320.7	6122.8	6151.7
15°	10707.7	10394.4	9648.1	8901.8	8019.5	7029.9	6230.0	5607.4	5290.0	5162.1	5162.1
17.5°	10683.0	10287.2	9474.9	8320.4	7203.1	6032.1	5153.9	4778.7	4646.7	4646.7	4683.9
20°	10695.4	10357.3	9124.4	7739.1	6238.3	5079.7	4440.6	4304.5	4362.3	4382.9	4403.5
22.5°	10765.4	10126.4	8782.2	7100.0	5343.6	4345.8	4032.4	4036.5	4139.6	4250.9	4230.3
25°	10852.0	10035.7	8365.8	6465.0	4659.1	3987.1	3888.1	3875.7	3954.1	4011.8	4020.0
27.5°	10777.8	9879.0	7941.1	5673.4	4098.4	3747.9	3727.3	3735.5	3760.3	3875.7	3838.6
30°	11021.1	9924.3	7409.2	5009.6	3789.1	3669.6	3644.8	3632.5	3669.6	3702.6	3673.7
32.5°	11322.1	9763.5	7013.4	4370.5	3636.6	3611.8	3562.4	3545.9	3566.5	3533.5	3550.0
35°	11454.0	9734.7	6498.0	3912.8	3517.0	3496.4	3467.5	3463.4	3467.5	3438.7	3413.9
37.5°	11528.2	9870.7	5908.4	3702.6	3442.8	3463.4	3397.4	3389.2	3315.0	3331.5	3343.8
40°	11656.0	9660.5	5430.1	3500.5	3397.4	3356.2	3298.5	3286.1	3236.6	3207.8	3236.6
42.5°	11470.5	9598.6	4960.1	3413.9	3331.5	3286.1	3244.9	3174.8	3158.3	3133.6	3117.1
45°	11322.1	9244.0	4539.5	3306.7	3253.1	3228.4	3150.1	3075.8	3014.0	3038.7	3001.6
47.5°	11433.4	9120.3	4123.1	3216.0	3145.9	3117.1	3038.7	2981.0	2919.2	2890.3	2882.1
50°	11878.7	9351.2	3772.6	3150.1	3055.2	3038.7	2935.7	2869.7	2812.0	2791.3	2799.6
52.5°	12942.5	9982.1	3533.5	3014.0	2968.6	2894.4	2836.7	2754.2	2717.1	2651.2	2692.4
55°	14290.7	11008.7	3471.7	2886.2	2861.4	2795.5	2717.1	2655.3	2585.2	2531.6	2519.2
56°	14723.6	11499.4	3422.2	2836.7	2795.5	2758.4	2655.3	2618.2	2506.9	2494.5	2486.2
57.5°	15074.1	11932.3	3430.4	2741.9	2700.6	2667.7	2605.8	2515.1	2440.9	2395.5	2416.1
60°	14282.5	11169.5	3273.8	2597.6	2589.3	2527.5	2440.9	2399.7	2308.9	2255.3	2243.0
62.5°	10617.0	7582.4	2655.3	2412.0	2407.9	2341.9	2243.0	2197.6	2181.1	2106.9	2106.9
65°	6114.6	4753.9	2296.6	2259.5	2226.5	2160.5	2061.6	2024.4	1983.2	1958.5	1937.9
67.5°	2609.9	2465.6	2086.3	2082.2	2045.1	1962.6	1863.6	1805.9	1752.3	1702.8	1727.6
70°	1892.5	1921.4	1884.3	1863.6	1818.3	1715.2	1628.6	1558.5	1476.1	1443.1	1467.8
72.5°	1500.8	1562.7	1616.3	1620.4	1566.8	1447.2	1352.4	1257.5	1166.8	1121.5	1142.1
75°	1138.0	1179.2	1232.8	1245.2	1166.8	1084.4	993.7	894.7	824.6	771.0	779.3
77.5°	820.5	812.3	861.7	853.5	816.4	758.7	676.2	585.5	507.1	457.7	461.8
80°	560.7	573.1	602.0	597.9	552.5	515.4	453.5	379.3	321.6	280.4	272.1
82.5°	391.7	412.3	437.1	416.4	379.3	342.2	296.9	243.3	197.9	164.9	156.7
85°	140.2	160.8	185.5	197.9	210.3	202.0	169.0	136.1	99.0	82.5	78.3
87.5°	28.9	33.0	37.1	37.1	37.1	33.0	28.9	28.9	24.7	12.4	12.4
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)