

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: P533938

Luminaire Tested: **GALN-SA9B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
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-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32331 lumens  
Efficiency: N/A  
Efficacy: 88.8 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

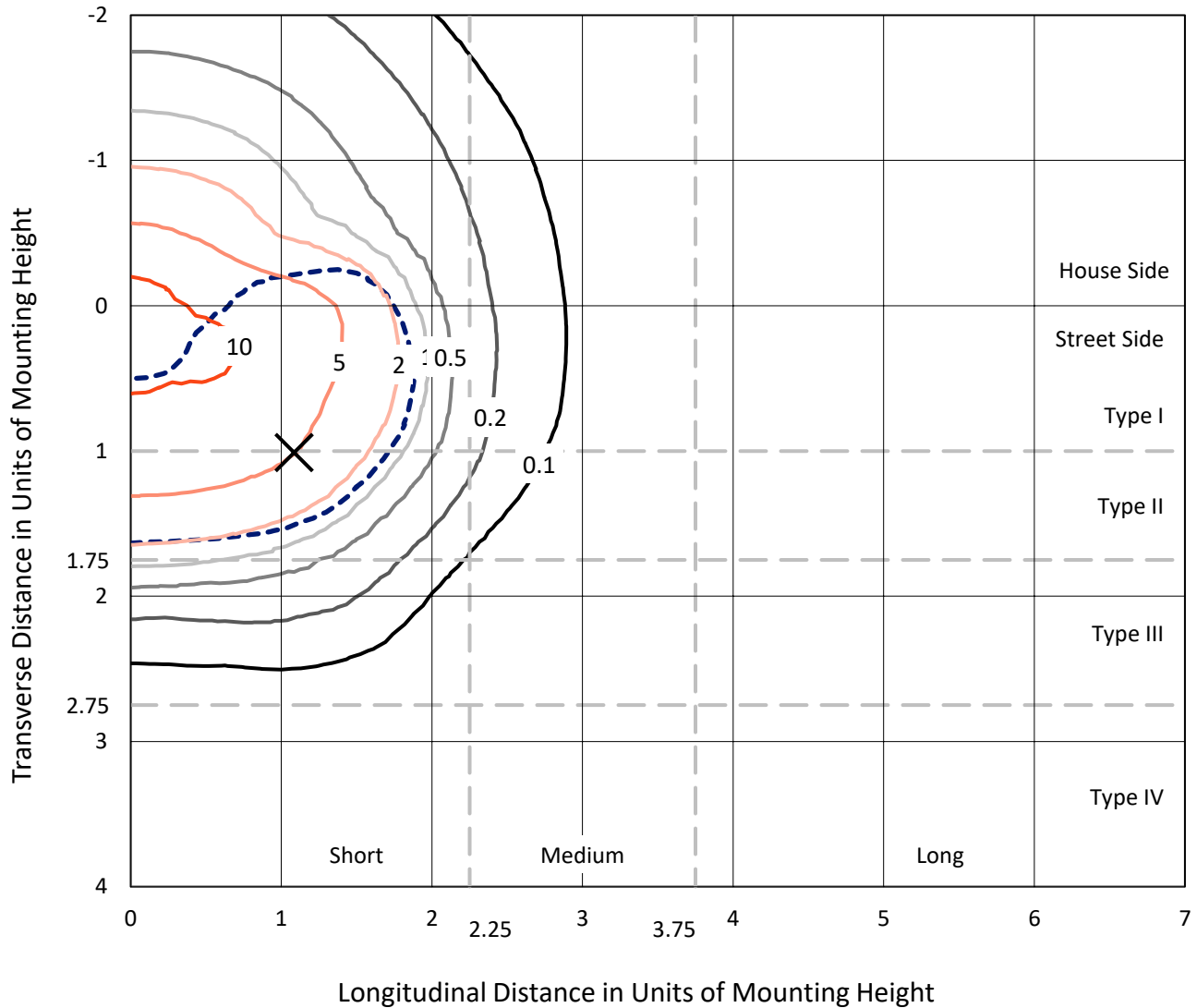
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

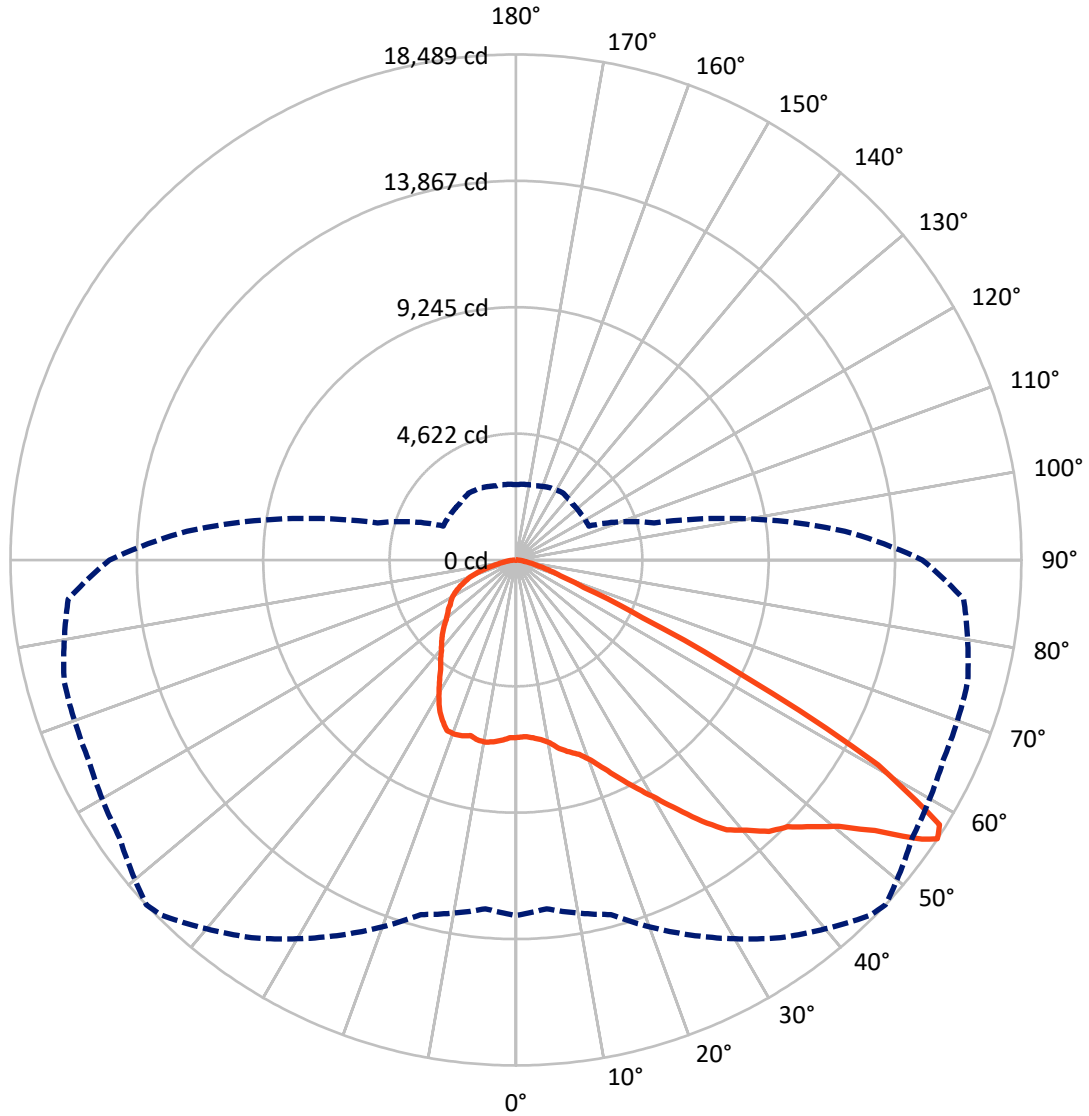
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10245.3	0.0	10245.3
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	22085.7	0.0	22085.7
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	32331.0	0.0	32331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.8	2.0
10°-20°	1996.1	6.2
20°-30°	3528.6	10.9
30°-40°	5299.9	16.4
40°-50°	7273.6	22.5
50°-60°	8665.5	26.8
60°-70°	3708.3	11.5
70°-80°	1049.4	3.2
80°-90°	176.6	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°	32331.0	100.0
0°-180°	32331.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P533938

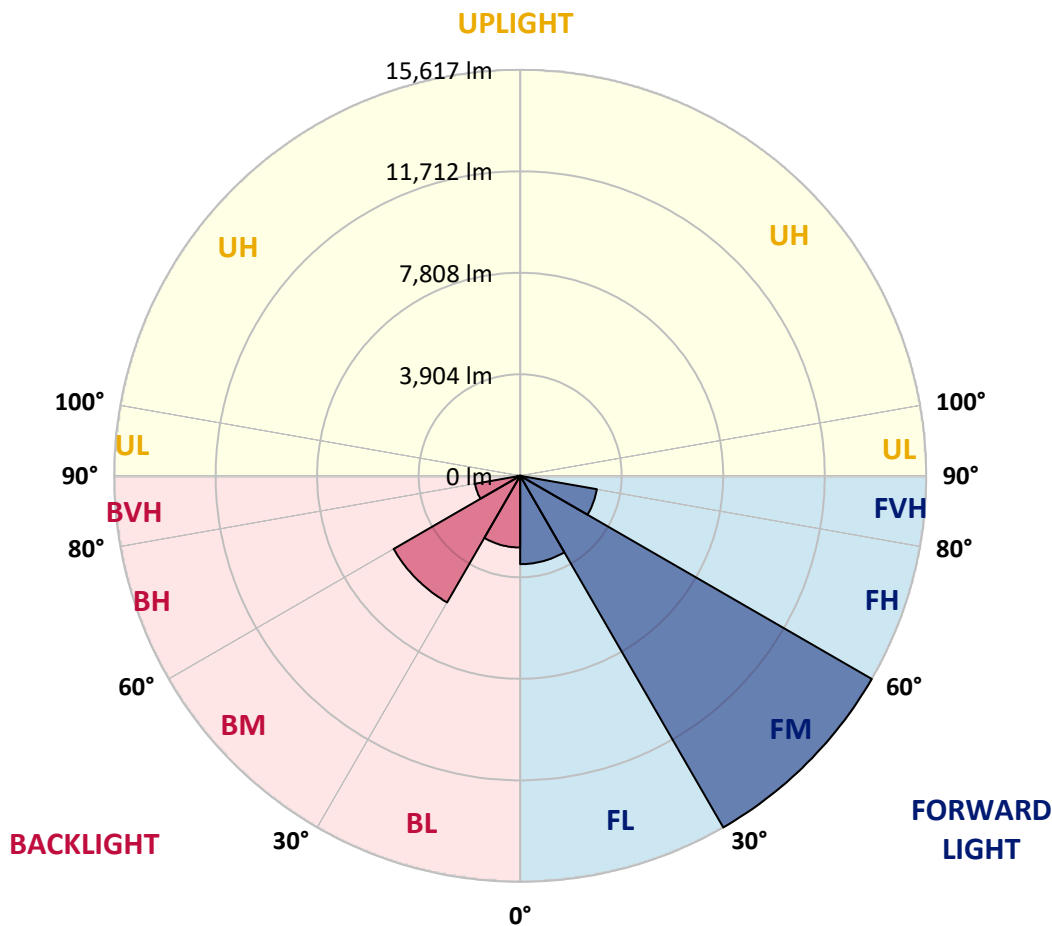
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3399.1	10.5			
FM (30°-60°)	15616.6	48.3			
FH (60°-80°)	2995.0	9.3			G2/5000
FVH (80°-90°)	75.0	0.2			G1/100
BL (0°-30°)	2758.5	8.5	B4/5000		
BM (30°-60°)	5622.4	17.4	B4/8500		
BH (60°-80°)	1762.8	5.5	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°	47°	55°	65°	75°	85°
0°	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3
2.5°	6469.6	6457.2	6449.0	6514.9	6490.2	6494.3	6469.6	6494.3	6510.8	6473.7	6527.3
5°	6457.2	6494.3	6461.3	6481.9	6535.5	6519.1	6535.5	6585.0	6572.7	6560.3	6543.8
7.5°	6572.7	6576.8	6601.5	6609.8	6626.3	6609.8	6634.5	6679.9	6667.5	6597.4	6605.6
10°	6737.6	6745.8	6750.0	6795.3	6824.2	6828.3	6799.4	6758.2	6754.1	6848.9	6783.0
12.5°	6927.3	6906.7	6956.1	6972.6	7005.6	7042.7	7079.8	6993.2	7046.8	7051.0	6972.6
15°	7203.5	7224.2	7166.4	7166.4	7178.8	7182.9	7286.0	7244.8	7236.5	7191.2	7224.2
17.5°	7615.9	7475.7	7471.6	7413.8	7405.6	7438.6	7475.7	7508.7	7620.0	7529.3	7352.0
20°	7916.9	7949.9	7830.3	7760.2	7772.6	7846.8	7809.7	7958.1	8036.5	7888.0	7714.8
22.5°	8448.8	8337.5	8366.3	8209.6	8222.0	8300.4	8296.2	8448.8	8494.2	8259.1	8007.6
25°	8807.5	8778.7	8803.4	8679.7	8696.2	8758.0	8857.0	9108.5	9034.3	8774.5	8193.1
27.5°	9331.2	9273.5	9252.9	9207.5	9191.0	9355.9	9471.4	9739.4	9685.8	9306.5	8523.0
30°	9867.2	9830.1	9850.7	9665.2	9731.2	10081.7	10114.6	10481.6	10456.9	9788.9	8890.0
32.5°	10238.3	10259.0	10296.1	10193.0	10485.7	10766.1	10877.5	11293.9	11314.5	10617.7	9599.2
35°	10836.2	10766.1	10786.7	10906.3	11042.4	11553.7	11735.1	12011.4	12184.6	11487.7	10279.6
37.5°	11211.5	11285.7	11199.1	11388.8	11743.4	12357.8	12522.7	12807.2	12988.6	12345.4	11207.3
40°	11797.0	11677.4	11739.2	11875.3	12238.2	13038.1	12992.8	13285.5	13343.2	13075.2	12073.2
42.5°	12427.9	12370.1	12283.5	12592.8	12897.9	13479.3	13570.0	13434.0	13726.7	13788.6	13310.3
45°	13182.4	13252.5	13264.9	13273.1	13541.2	14048.3	13924.6	13805.1	14143.2	14592.6	14077.2
47.5°	13883.4	13660.7	13821.6	14044.2	14423.6	14427.7	14572.0	14287.5	14646.2	15046.2	14769.9
50°	14118.4	14011.2	14225.6	14646.2	15231.7	15293.6	15310.1	14906.0	15091.6	15409.1	15009.1
52.5°	14027.7	13990.6	14539.0	15190.5	16048.2	16361.6	16444.0	15945.1	16048.2	15903.9	15536.9
55°	13594.8	13706.1	14258.6	15586.4	16901.7	17870.7	18027.4	17396.5	16740.9	16852.2	16448.1
56°	13001.0	12807.2	13425.7	15136.9	16864.6	18361.4	18489.2	17701.6	17256.3	17112.0	16439.9
57.5°	11030.0	10778.5	11590.8	13619.5	15928.6	18175.8	18270.7	17829.5	17169.7	16877.0	15240.0
60°	6457.2	6580.9	7611.8	9393.0	12287.7	14901.9	15219.4	15541.0	15099.8	13788.6	11343.4
62.5°	3117.3	3038.9	3777.0	5385.1	7488.0	9512.6	9417.8	10320.8	10815.6	9797.1	7162.3
65°	1632.9	1624.6	2061.7	2940.0	4115.1	4997.5	5084.1	5570.7	6251.0	5047.0	3636.8
67.5°	1199.9	1232.9	1451.4	2065.8	2647.2	2700.8	2688.4	2931.7	2997.7	2535.9	2234.9
70°	940.1	956.6	1117.4	1571.0	1971.0	1764.8	1727.7	1756.6	1950.4	2032.8	1933.9
72.5°	680.4	696.9	832.9	1059.7	1232.9	1204.0	1228.8	1389.6	1628.7	1715.3	1612.2
75°	453.6	465.9	540.2	647.4	729.8	787.6	832.9	1018.5	1241.1	1290.6	1241.1
77.5°	313.4	325.7	375.2	457.7	465.9	503.1	519.5	606.1	742.2	804.1	771.1
80°	177.3	177.3	202.0	235.0	288.6	338.1	346.4	416.5	478.3	519.5	527.8
82.5°	82.5	86.6	107.2	144.3	189.7	235.0	243.3	288.6	334.0	375.2	387.6
85°	41.2	45.4	61.9	86.6	115.5	140.2	136.1	140.2	148.4	140.2	144.3
87.5°	12.4	12.4	16.5	20.6	16.5	20.6	20.6	24.7	28.9	33.0	37.1
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: P533938

CATALOG NUMBER: GALN-SA9B-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3	6494.3
2.5°	6531.4	6543.8	6461.3	6539.7	6510.8	6506.7	6564.4	6556.2	6576.8	6568.5	6519.1
5°	6535.5	6506.7	6593.3	6514.9	6552.0	6630.4	6576.8	6700.5	6638.6	6679.9	6589.2
7.5°	6663.4	6671.6	6655.1	6688.1	6671.6	6708.7	6679.9	6708.7	6659.3	6663.4	6745.8
10°	6774.7	6750.0	6778.8	6737.6	6766.5	6754.1	6688.1	6667.5	6684.0	6663.4	6717.0
12.5°	6980.9	6935.5	6914.9	6865.4	6832.4	6708.7	6605.6	6547.9	6626.3	6638.6	6613.9
15°	7191.2	7195.3	7100.5	6989.1	6783.0	6597.4	6622.1	6642.8	6642.8	6675.7	6613.9
17.5°	7323.1	7323.1	7236.5	7013.9	6803.6	6696.4	6671.6	6605.6	6547.9	6539.7	6535.5
20°	7554.0	7483.9	7286.0	7009.7	6795.3	6745.8	6560.3	6403.6	6284.0	6242.8	6238.7
22.5°	7817.9	7640.6	7364.3	7018.0	6783.0	6712.9	6366.5	6131.5	5917.0	5826.3	5838.7
25°	8061.2	7776.7	7409.7	6980.9	6737.6	6399.5	6011.9	5686.1	5463.5	5389.3	5352.1
27.5°	8230.3	7921.0	7409.7	7013.9	6568.5	6049.0	5653.1	5236.7	5042.9	4993.4	5001.7
30°	8457.0	8102.4	7537.5	6943.8	6230.4	5595.4	5121.2	4849.1	4733.6	4692.4	4721.3
32.5°	8989.0	8576.6	7714.8	6774.7	5830.5	5141.8	4758.4	4605.8	4436.8	4354.3	4325.4
35°	9566.2	9026.1	7888.0	6490.2	5381.0	4729.5	4490.4	4350.2	4148.1	4057.4	4073.9
37.5°	10382.7	9603.3	7900.4	6020.1	4894.4	4498.6	4280.1	4061.5	3896.6	3756.4	3715.2
40°	11483.6	10390.9	7871.5	5525.3	4502.7	4226.5	4065.6	3793.5	3608.0	3509.0	3529.6
42.5°	12452.6	11314.5	7751.9	4964.5	4148.1	4040.9	3859.5	3591.5	3410.0	3306.9	3298.7
45°	13269.0	11994.9	7525.2	4486.2	3851.2	3834.7	3624.4	3418.3	3274.0	3179.1	3220.4
47.5°	14023.6	12543.3	7182.9	4007.9	3579.1	3612.1	3410.0	3282.2	3191.5	3104.9	3100.8
50°	14295.7	12535.1	6881.9	3612.1	3360.6	3344.1	3335.8	3199.7	3104.9	3030.7	3063.7
52.5°	14749.3	12675.3	6556.2	3339.9	3162.6	3166.8	3195.6	3096.7	2989.4	2944.1	2985.3
55°	15400.8	12695.9	5838.7	3022.4	2997.7	3026.6	3026.6	2960.6	2869.9	2832.8	2812.1
56°	14868.9	12081.5	5236.7	2940.0	2915.2	2915.2	2993.6	2919.3	2808.0	2779.2	2754.4
57.5°	13714.3	10584.7	4383.1	2841.0	2803.9	2861.6	2902.9	2824.5	2721.4	2680.2	2704.9
60°	9459.0	7162.3	3294.6	2626.6	2626.6	2721.4	2754.4	2639.0	2593.6	2589.5	2556.5
62.5°	5521.2	4172.9	2577.1	2432.8	2441.0	2519.4	2544.1	2478.1	2420.4	2490.5	2523.5
65°	2927.6	2490.5	2210.1	2226.6	2230.7	2292.6	2399.8	2395.7	2391.6	2412.2	2416.3
67.5°	2119.4	2069.9	2008.1	1991.6	1999.8	2045.2	2152.4	2234.9	2230.7	2181.3	2144.2
70°	1888.5	1818.4	1781.3	1785.4	1752.4	1806.0	1892.6	1946.2	1851.4	1793.7	1768.9
72.5°	1571.0	1550.4	1525.6	1529.8	1463.8	1451.4	1352.5	1352.5	1327.7	1311.2	1340.1
75°	1199.9	1191.7	1204.0	1183.4	1113.3	1039.1	981.4	927.8	845.3	812.3	795.8
77.5°	758.7	783.4	812.3	766.9	738.1	684.5	626.8	573.1	507.2	470.1	470.1
80°	515.4	536.0	556.7	548.4	515.4	465.9	420.6	362.9	317.5	288.6	284.5
82.5°	391.7	408.2	437.1	404.1	371.1	329.9	292.8	251.5	210.3	177.3	177.3
85°	140.2	160.8	177.3	193.8	206.2	210.3	181.4	148.4	119.6	94.8	90.7
87.5°	37.1	41.2	45.4	41.2	41.2	41.2	45.4	41.2	37.1	28.9	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

(END OF REPORT)