

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: P533782

Luminaire Tested: **GALN-SA9B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533782  
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-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 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: 36781 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

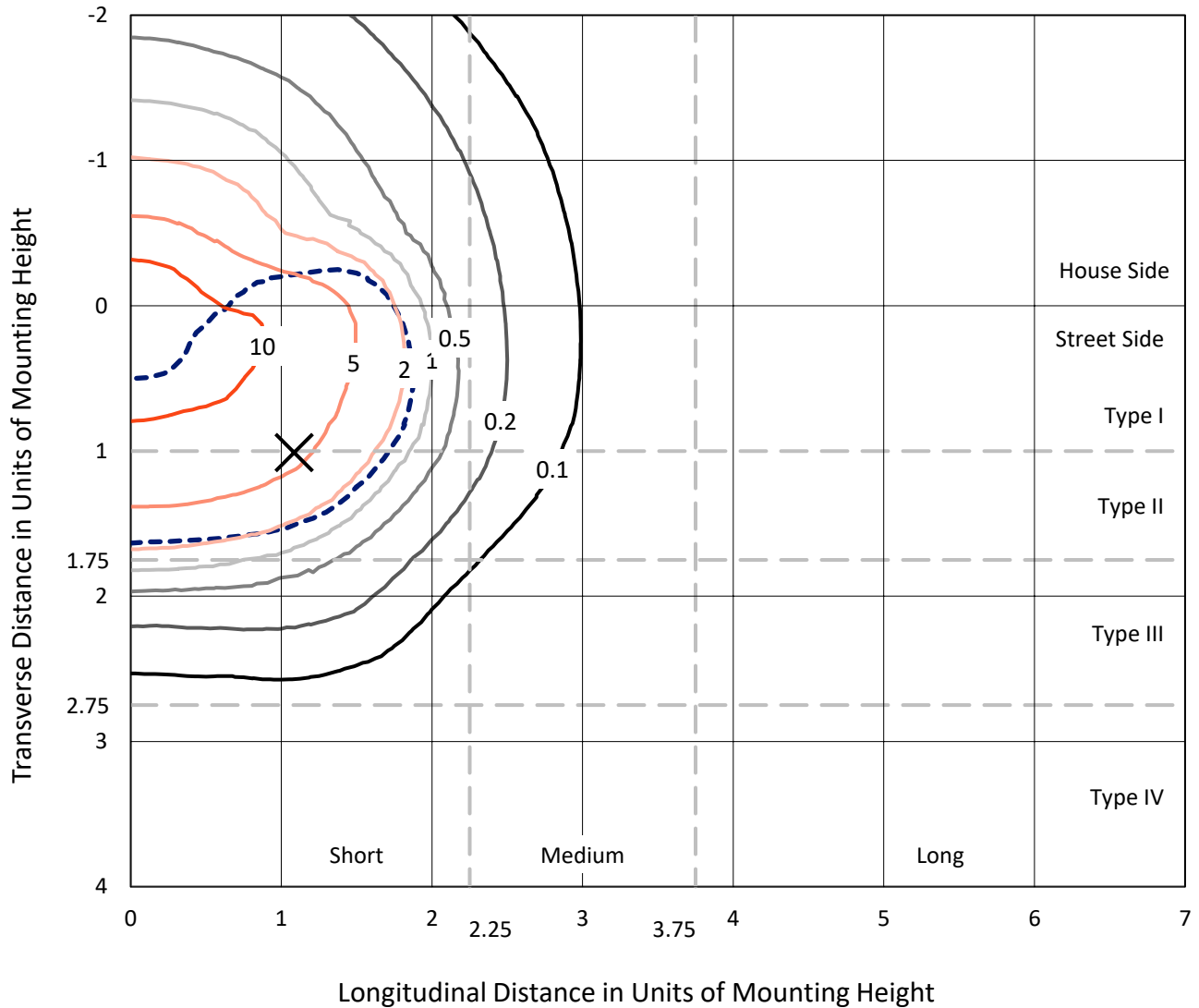
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

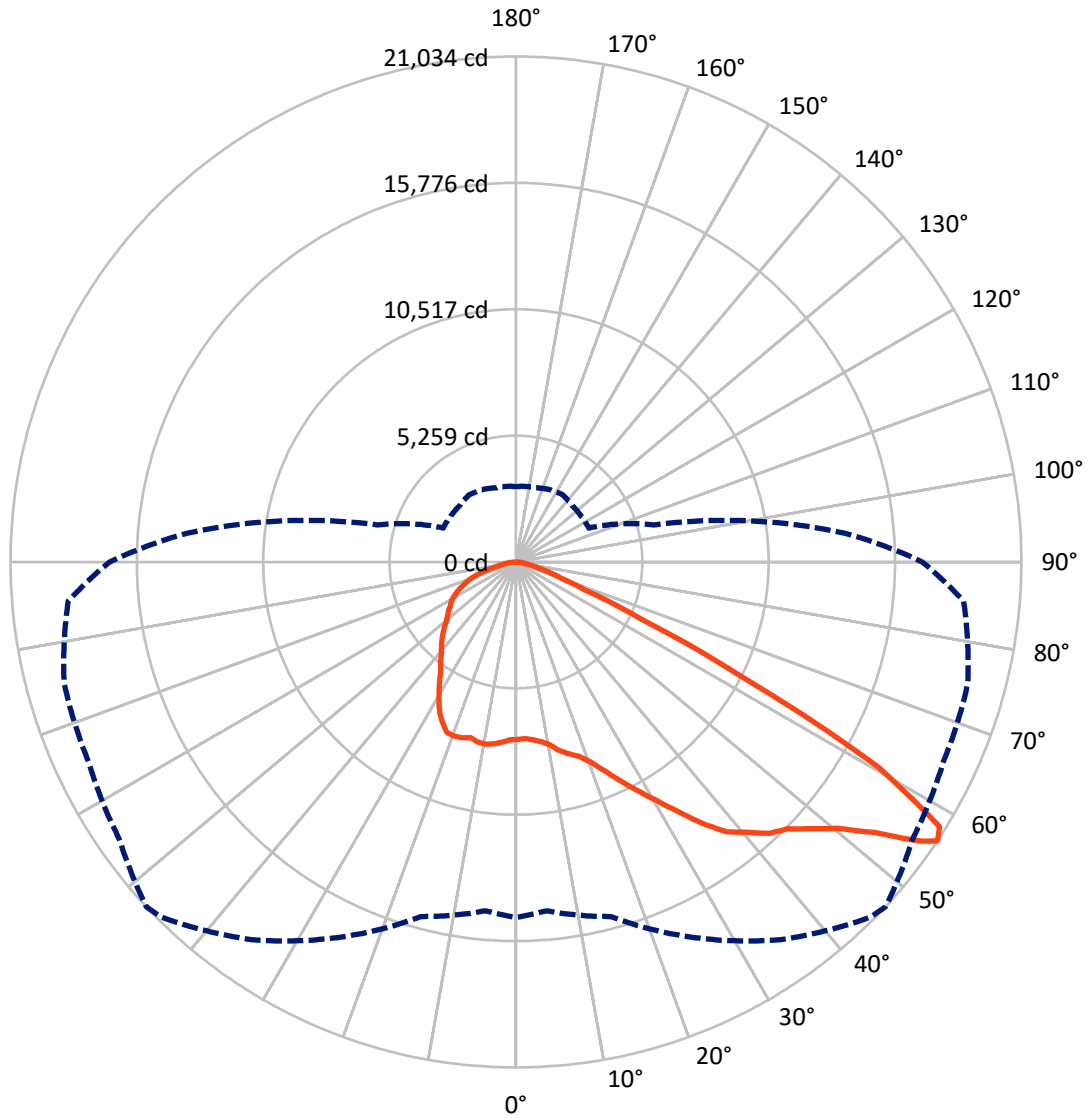
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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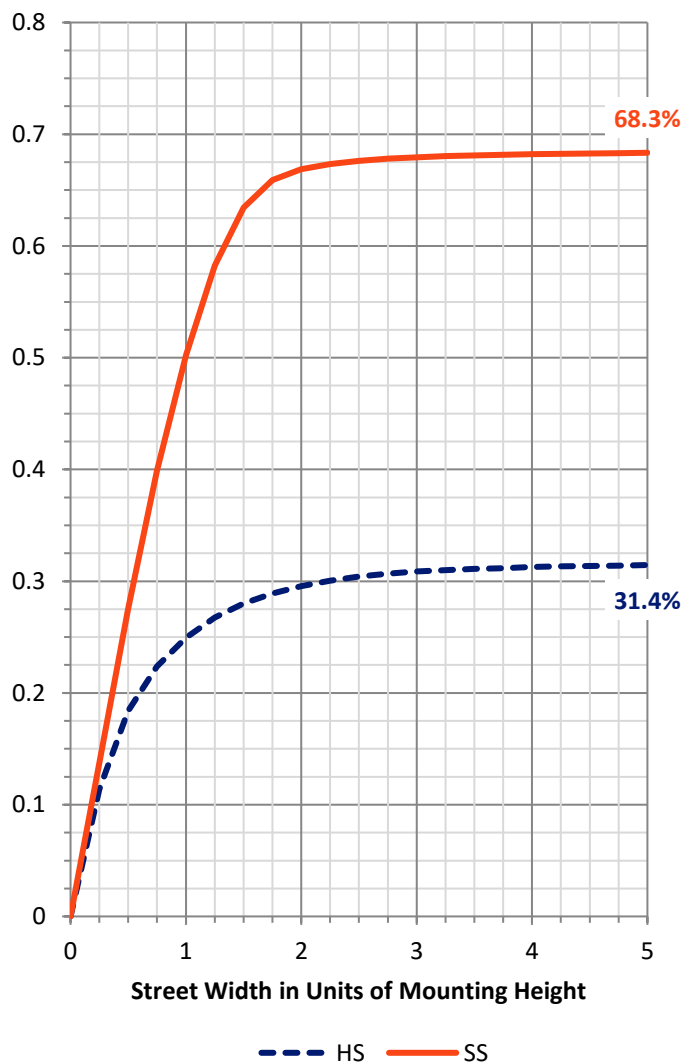
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11655.4	0.0	11655.4
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	25125.5	0.0	25125.5
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	36781.0	0.0	36781.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.9	2.0
10°-20°	2270.9	6.2
20°-30°	4014.3	10.9
30°-40°	6029.4	16.4
40°-50°	8274.7	22.5
50°-60°	9858.3	26.8
60°-70°	4218.7	11.5
70°-80°	1193.9	3.2
80°-90°	200.9	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°	36781.0	100.0
0°-180°	36781.0	100.0



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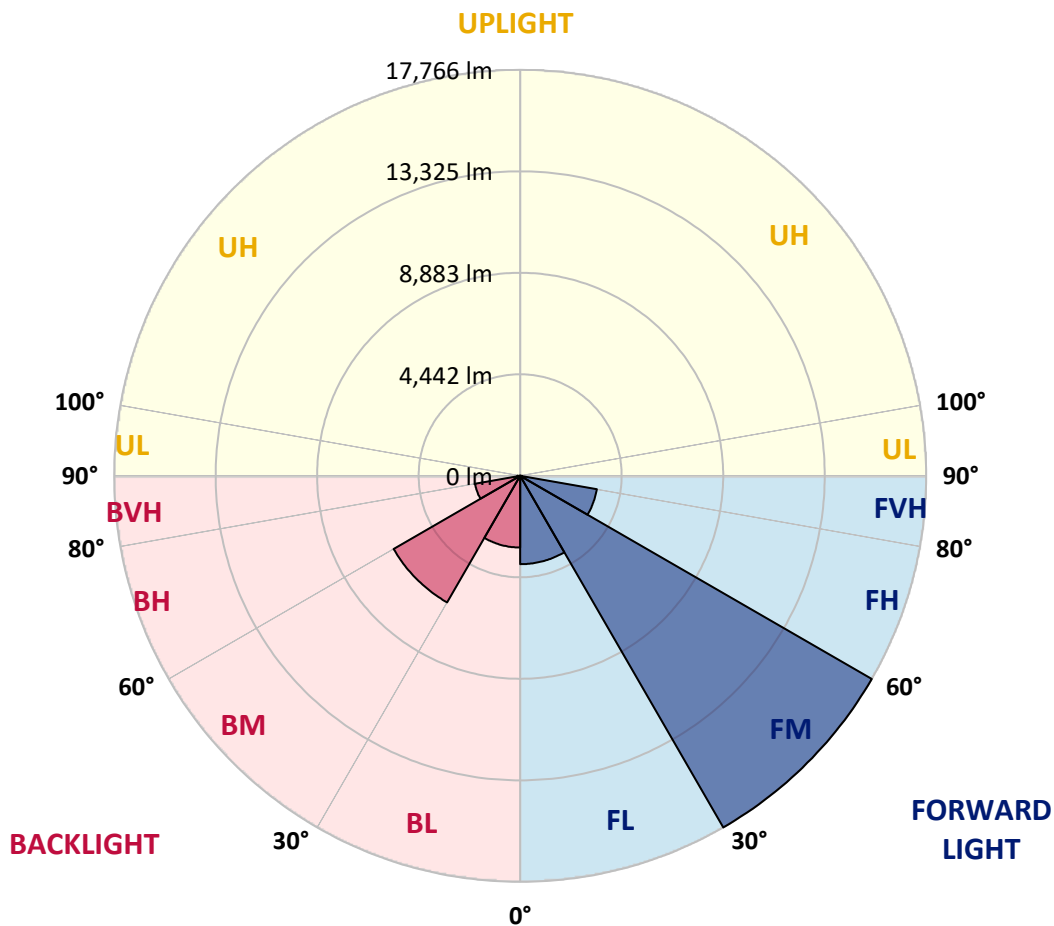
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3866.9	10.5			
FM (30°-60°)	17766.1	48.3			
FH (60°-80°)	3407.3	9.3			G2/5000
FVH (80°-90°)	85.3	0.2			G1/100
BL (0°-30°)	3138.1	8.5	B4/5000		
BM (30°-60°)	6396.3	17.4	B4/8500		
BH (60°-80°)	2005.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	115.6	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°	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2
2.5°	7360.0	7346.0	7336.6	7411.6	7383.5	7388.2	7360.0	7388.2	7406.9	7364.7	7425.7
5°	7346.0	7388.2	7350.7	7374.1	7435.1	7416.3	7435.1	7491.4	7477.3	7463.2	7444.5
7.5°	7477.3	7482.0	7510.1	7519.5	7538.3	7519.5	7547.7	7599.3	7585.2	7505.5	7514.8
10°	7664.9	7674.3	7679.0	7730.6	7763.5	7768.1	7735.3	7688.4	7683.7	7791.6	7716.5
12.5°	7880.7	7857.3	7913.6	7932.3	7969.9	8012.1	8054.3	7955.8	8016.8	8021.5	7932.3
15°	8195.0	8218.5	8152.8	8152.8	8166.9	8171.6	8288.8	8241.9	8232.5	8180.9	8218.5
17.5°	8664.1	8504.6	8499.9	8434.3	8424.9	8462.4	8504.6	8542.1	8668.8	8565.6	8363.9
20°	9006.5	9044.1	8908.0	8828.3	8842.4	8926.8	8884.6	9053.5	9142.6	8973.7	8776.7
22.5°	9611.7	9485.0	9517.9	9339.6	9353.7	9442.8	9438.1	9611.7	9663.3	9395.9	9109.7
25°	10019.8	9987.0	10015.1	9874.4	9893.1	9963.5	10076.1	10362.2	10277.8	9982.3	9320.8
27.5°	10615.5	10549.9	10526.4	10474.8	10456.0	10643.7	10775.0	11079.9	11019.0	10587.4	9696.1
30°	11225.4	11183.1	11206.6	10995.5	11070.6	11469.3	11506.8	11924.3	11896.2	11136.2	10113.6
32.5°	11647.5	11671.0	11713.2	11595.9	11929.0	12248.0	12374.6	12848.4	12871.9	12079.1	10920.4
35°	12327.7	12248.0	12271.4	12407.5	12562.3	13143.9	13350.3	13664.6	13861.6	13068.9	11694.4
37.5°	12754.6	12839.0	12740.5	12956.3	13359.7	14058.7	14246.3	14570.0	14776.4	14044.6	12749.9
40°	13420.7	13284.7	13355.0	13509.8	13922.6	14832.7	14781.1	15114.1	15179.8	14874.9	13735.0
42.5°	14138.4	14072.7	13974.2	14326.0	14673.2	15334.6	15437.8	15283.0	15616.0	15686.4	15142.3
45°	14996.8	15076.6	15090.7	15100.0	15405.0	15981.9	15841.2	15705.2	16089.8	16601.1	16014.8
47.5°	15794.3	15541.0	15723.9	15977.2	16408.8	16413.5	16577.7	16254.0	16662.1	17117.1	16802.8
50°	16061.7	15939.7	16183.6	16662.1	17328.2	17398.6	17417.4	16957.6	17168.7	17529.9	17074.9
52.5°	15958.5	15916.3	16540.2	17281.3	18257.0	18613.5	18707.4	18139.8	18257.0	18092.8	17675.4
55°	15465.9	15592.6	16221.2	17731.6	19228.0	20330.4	20508.7	19791.0	19045.1	19171.8	18712.0
56°	14790.4	14570.0	15273.6	17220.3	19185.8	20888.6	21034.0	20138.1	19631.5	19467.3	18702.7
57.5°	12548.2	12262.0	13186.2	15494.1	18121.0	20677.5	20785.4	20283.5	19533.0	19199.9	17337.6
60°	7346.0	7486.7	8659.4	10685.9	13978.9	16953.0	17314.2	17680.0	17178.1	15686.4	12904.7
62.5°	3546.3	3457.2	4296.9	6126.3	8518.7	10821.9	10714.0	11741.4	12304.3	11145.6	8148.1
65°	1857.6	1848.2	2345.5	3344.6	4681.5	5685.4	5783.9	6337.4	7111.4	5741.7	4137.4
67.5°	1365.1	1402.6	1651.2	2350.1	3011.6	3072.5	3058.5	3335.2	3410.3	2884.9	2542.5
70°	1069.5	1088.3	1271.2	1787.2	2242.3	2007.7	1965.5	1998.3	2218.8	2312.6	2200.0
72.5°	774.0	792.8	947.6	1205.6	1402.6	1369.7	1397.9	1580.8	1852.9	1951.4	1834.1
75°	516.0	530.1	614.5	736.5	830.3	896.0	947.6	1158.7	1412.0	1468.3	1412.0
77.5°	356.5	370.6	426.9	520.7	530.1	572.3	591.1	689.6	844.4	914.7	877.2
80°	201.7	201.7	229.9	267.4	328.4	384.7	394.0	473.8	544.1	591.1	600.4
82.5°	93.8	98.5	122.0	164.2	215.8	267.4	276.8	328.4	380.0	426.9	440.9
85°	46.9	51.6	70.4	98.5	131.3	159.5	154.8	159.5	168.9	159.5	164.2
87.5°	14.1	14.1	18.8	23.5	18.8	23.5	23.5	28.1	32.8	37.5	42.2
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°	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2	7388.2
2.5°	7430.4	7444.5	7350.7	7439.8	7406.9	7402.3	7467.9	7458.5	7482.0	7472.6	7416.3
5°	7435.1	7402.3	7500.8	7411.6	7453.9	7543.0	7482.0	7622.7	7552.4	7599.3	7496.1
7.5°	7580.5	7589.9	7571.1	7608.7	7589.9	7632.1	7599.3	7632.1	7575.8	7580.5	7674.3
10°	7707.2	7679.0	7711.9	7664.9	7697.8	7683.7	7608.7	7585.2	7604.0	7580.5	7641.5
12.5°	7941.7	7890.1	7866.7	7810.4	7772.8	7632.1	7514.8	7449.2	7538.3	7552.4	7524.2
15°	8180.9	8185.6	8077.7	7951.1	7716.5	7505.5	7533.6	7557.1	7557.1	7594.6	7524.2
17.5°	8331.1	8331.1	8232.5	7979.2	7740.0	7618.0	7589.9	7514.8	7449.2	7439.8	7435.1
20°	8593.7	8514.0	8288.8	7974.5	7730.6	7674.3	7463.2	7285.0	7148.9	7102.0	7097.3
22.5°	8894.0	8692.3	8378.0	7983.9	7716.5	7636.8	7242.8	6975.4	6731.5	6628.3	6642.3
25°	9170.7	8847.1	8429.6	7941.7	7664.9	7280.3	6839.3	6468.8	6215.5	6131.0	6088.8
27.5°	9363.1	9011.2	8429.6	7979.2	7472.6	6881.6	6431.2	5957.5	5737.0	5680.7	5690.1
30°	9621.1	9217.6	8575.0	7899.5	7088.0	6365.6	5826.1	5516.5	5385.2	5338.3	5371.1
32.5°	10226.2	9757.1	8776.7	7707.2	6632.9	5849.6	5413.3	5239.7	5047.4	4953.6	4920.8
35°	10882.9	10268.4	8973.7	7383.5	6121.6	5380.5	5108.4	4948.9	4719.1	4615.9	4634.6
37.5°	11811.7	10925.1	8987.8	6848.7	5568.1	5117.8	4869.2	4620.5	4432.9	4273.4	4226.5
40°	13064.2	11821.1	8954.9	6285.8	5122.5	4808.2	4625.2	4315.6	4104.5	3992.0	4015.4
42.5°	14166.6	12871.9	8818.9	5647.9	4719.1	4597.1	4390.7	4085.8	3879.4	3762.1	3752.7
45°	15095.4	13645.9	8560.9	5103.7	4381.3	4362.5	4123.3	3888.8	3724.6	3616.7	3663.6
47.5°	15953.8	14269.8	8171.6	4559.6	4071.7	4109.2	3879.4	3734.0	3630.8	3532.3	3527.6
50°	16263.4	14260.4	7829.1	4109.2	3823.1	3804.3	3794.9	3640.1	3532.3	3447.8	3485.3
52.5°	16779.4	14419.9	7458.5	3799.6	3597.9	3602.6	3635.5	3522.9	3400.9	3349.3	3396.2
55°	17520.6	14443.3	6642.3	3438.4	3410.3	3443.1	3443.1	3368.1	3264.9	3222.7	3199.2
56°	16915.4	13744.4	5957.5	3344.6	3316.5	3316.5	3405.6	3321.2	3194.5	3161.7	3133.5
57.5°	15602.0	12041.6	4986.4	3232.0	3189.8	3255.5	3302.4	3213.3	3096.0	3049.1	3077.2
60°	10761.0	8148.1	3748.0	2988.1	2988.1	3096.0	3133.5	3002.2	2950.6	2945.9	2908.4
62.5°	6281.1	4747.2	2931.8	2767.6	2777.0	2866.1	2894.3	2819.2	2753.6	2833.3	2870.8
65°	3330.5	2833.3	2514.3	2533.1	2537.8	2608.1	2730.1	2725.4	2720.7	2744.2	2748.9
67.5°	2411.1	2354.8	2284.5	2265.7	2275.1	2326.7	2448.7	2542.5	2537.8	2481.5	2439.3
70°	2148.4	2068.7	2026.5	2031.2	1993.6	2054.6	2153.1	2214.1	2106.2	2040.5	2012.4
72.5°	1787.2	1763.8	1735.6	1740.3	1665.3	1651.2	1538.6	1538.6	1510.5	1491.7	1524.5
75°	1365.1	1355.7	1369.7	1346.3	1266.5	1182.1	1116.4	1055.5	961.6	924.1	905.3
77.5°	863.1	891.3	924.1	872.5	839.7	778.7	713.0	652.0	577.0	534.8	534.8
80°	586.4	609.8	633.3	623.9	586.4	530.1	478.5	412.8	361.2	328.4	323.7
82.5°	445.6	464.4	497.2	459.7	422.2	375.3	333.1	286.1	239.2	201.7	201.7
85°	159.5	182.9	201.7	220.5	234.5	239.2	206.4	168.9	136.0	107.9	103.2
87.5°	42.2	46.9	51.6	46.9	46.9	46.9	51.6	46.9	42.2	32.8	32.8
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)