

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: P955926

Luminaire Tested: **GALN-SB8D-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74592 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

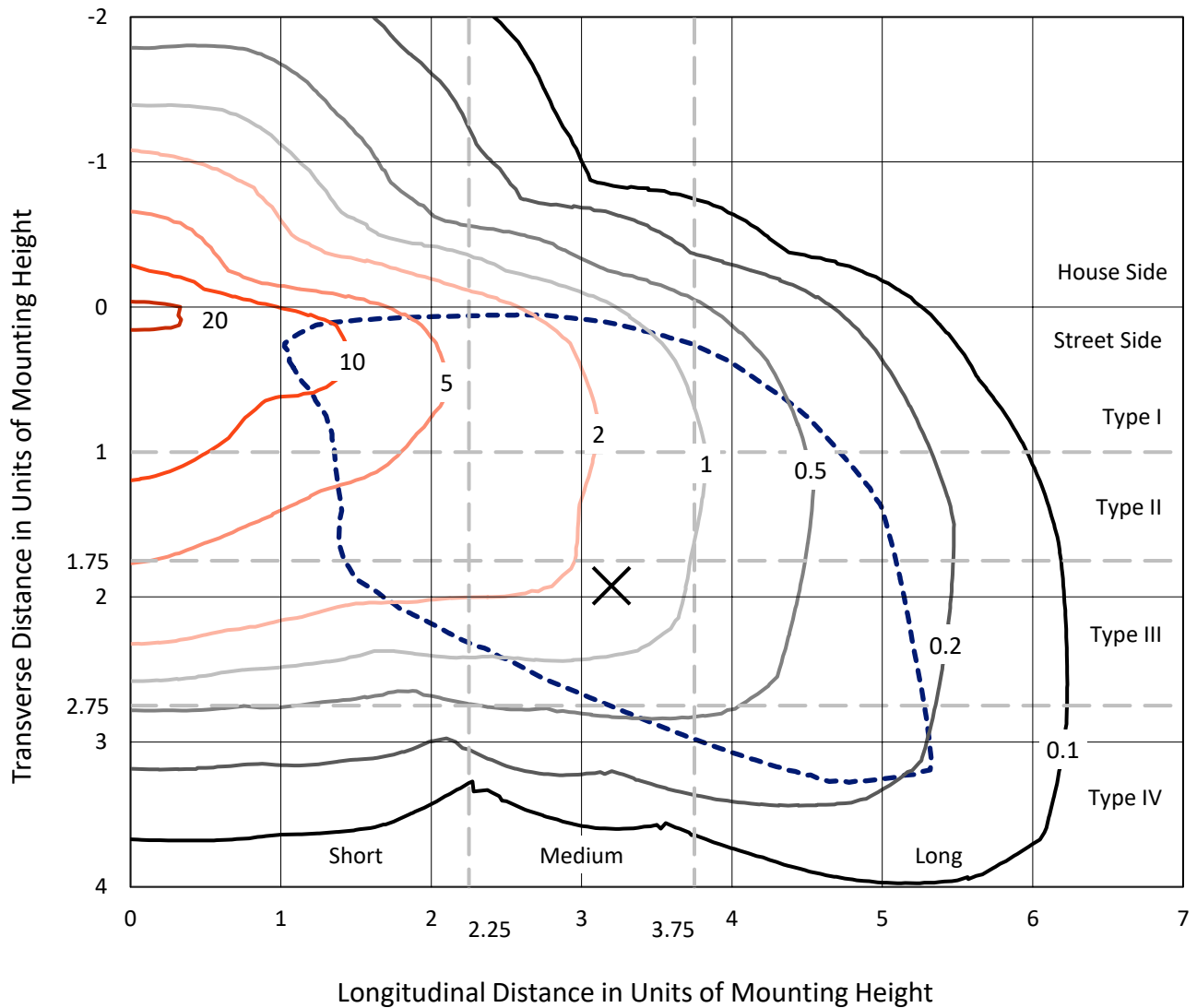
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

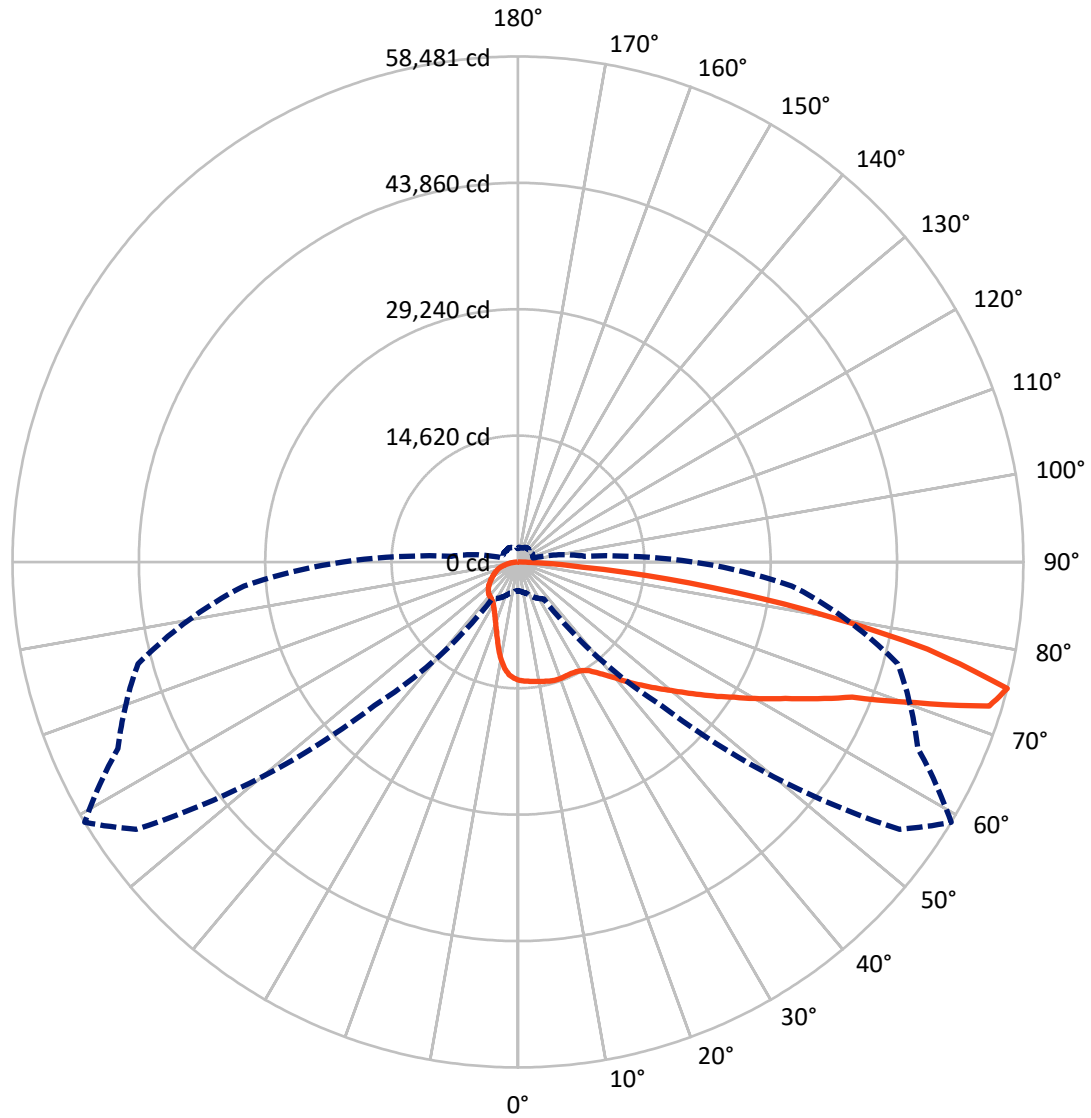
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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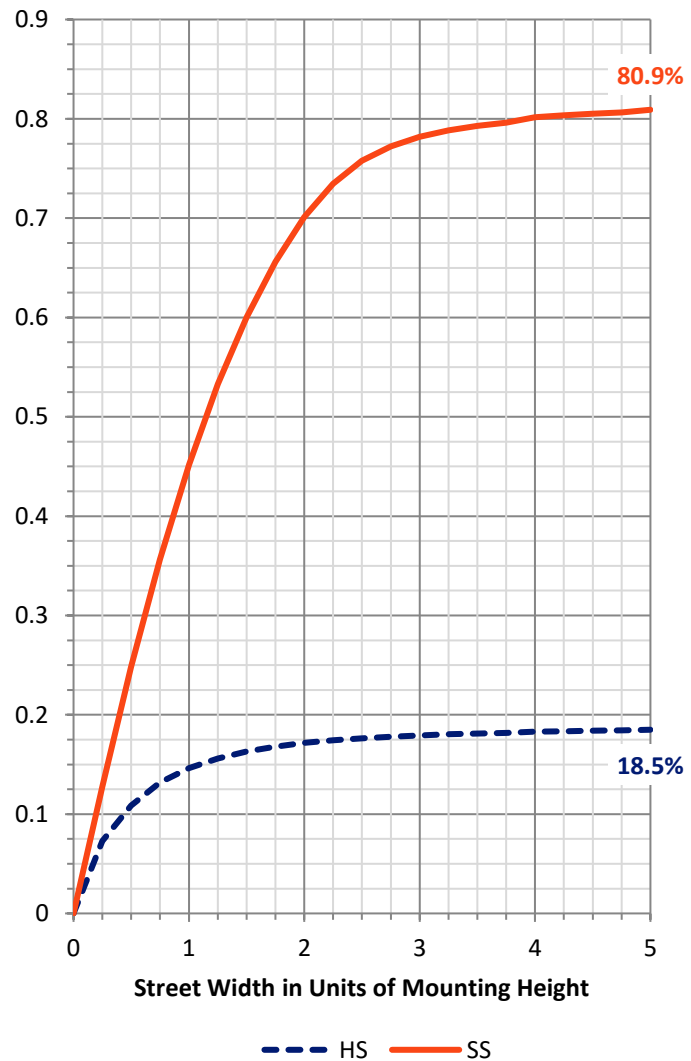
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13990.2	0.0	13990.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	60601.8	0.0	60601.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	74592.0	0.0	74592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1227.6	1.6
10°-20°	3137.9	4.2
20°-30°	4766.3	6.4
30°-40°	7084.9	9.5
40°-50°	10536.5	14.1
50°-60°	14302.0	19.2
60°-70°	17460.4	23.4
70°-80°	13702.7	18.4
80°-90°	2373.6	3.2
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°	74592.0	100.0
0°-180°	74592.0	100.0

Coefficient of Utilization



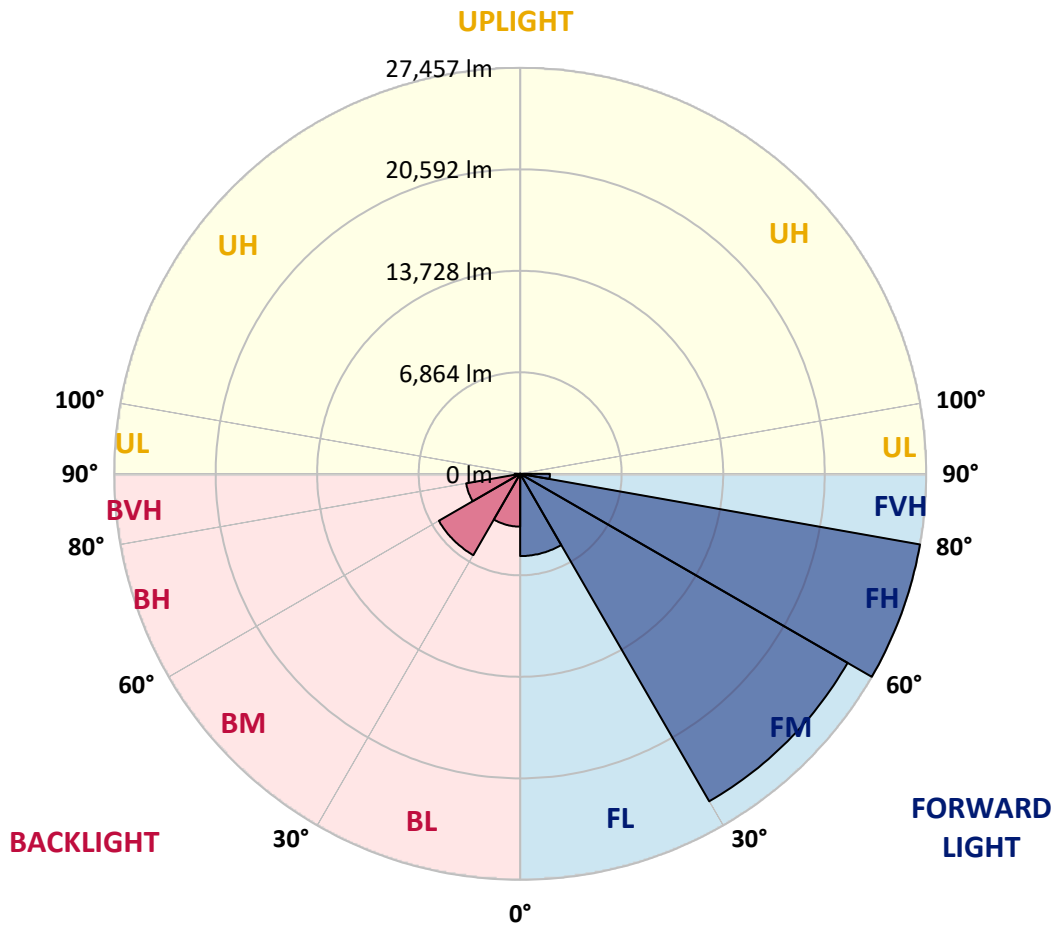
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5561.6	7.5			
FM	(30°-60°)	25573.2	34.3			
FH	(60°-80°)	27456.6	36.8			G5
FVH	(80°-90°)	2010.3	2.7			G5
BL	(0°-30°)	3570.2	4.8	B4/5000		
BM	(30°-60°)	6350.2	8.5	B4/8500		
BH	(60°-80°)	3706.6	5.0	B4/5000		G4/5000
BVH	(80°-90°)	363.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2
2.5°	13807.6	13759.4	13807.6	13787.5	13779.5	13763.4	13767.4	13795.5	13779.5	13799.5	13731.3
5°	13715.3	13687.2	13735.3	13723.3	13775.5	13783.5	13835.7	13867.8	13887.8	13891.8	13839.7
7.5°	13562.8	13534.7	13602.9	13659.1	13771.4	13803.5	13911.9	13964.1	13992.1	14040.3	13964.1
10°	13005.0	12993.0	13161.5	13374.2	13639.0	13803.5	13968.1	14056.3	14100.5	14228.9	14140.6
12.5°	12017.9	12034.0	12254.7	12664.0	13193.6	13723.3	14032.3	14160.7	14228.9	14389.4	14349.3
15°	11074.9	11070.9	11311.7	11749.1	12491.4	13370.2	14064.4	14285.1	14401.4	14638.2	14606.1
17.5°	10529.2	10513.2	10681.7	11014.8	11704.9	12828.5	13984.1	14353.3	14602.1	14899.0	14870.9
20°	10428.9	10396.8	10485.1	10649.6	11139.1	12234.6	13775.5	14353.3	14762.6	15147.8	15131.7
22.5°	10794.1	10741.9	10705.8	10685.7	10902.4	11745.1	13538.7	14305.1	14999.3	15504.9	15476.8
25°	11528.4	11448.1	11263.5	11083.0	11018.8	11524.4	13330.1	14293.1	15352.4	15986.4	15882.1
27.5°	12716.1	12615.8	12242.6	11809.3	11420.0	11636.7	13237.8	14365.3	15741.7	16496.0	16287.4
30°	14188.8	14080.4	13610.9	12944.8	12246.6	12054.0	13354.1	14578.0	16239.2	17174.2	16764.9
32.5°	15508.9	15388.6	14987.3	14309.1	13366.2	12776.3	13723.3	14983.3	17021.7	18117.2	17483.2
35°	16680.6	16540.2	16179.0	15553.1	14738.5	13791.5	14389.4	15701.5	18133.2	19650.0	18458.2
37.5°	17828.2	17663.7	17270.5	16608.4	16038.6	15143.8	15308.3	16624.4	19609.9	21511.9	19750.3
40°	19112.3	18875.6	18398.0	17744.0	17190.2	16728.8	16516.1	17756.0	21110.6	23590.4	21363.4
42.5°	20356.2	20131.5	19561.7	19004.0	18309.8	18177.3	17916.5	19080.2	22751.8	25873.6	23000.6
45°	21696.5	21427.6	20737.4	20031.2	19593.8	19140.4	19272.8	20404.4	24360.9	28201.0	24718.0
47.5°	22952.4	22651.5	21836.9	21050.4	20809.7	19950.9	20516.7	21861.0	26034.1	30560.4	26419.4
50°	23630.6	23333.6	22655.5	21945.2	21756.6	20950.1	21865.0	23462.0	27787.7	32911.8	28052.5
52.5°	24196.3	23875.3	22988.5	22595.3	22539.1	22037.5	23526.2	25291.8	29541.2	34990.4	29629.5
55°	24798.2	24441.1	23309.5	22956.4	23213.2	23257.4	25496.4	27366.3	31395.1	37016.8	31118.2
57.5°	25492.4	25039.0	23618.5	23261.4	23871.3	24685.9	27759.6	29517.1	33216.8	38894.7	32442.4
60°	26146.5	25689.0	24212.4	23746.9	24581.6	26343.1	30355.8	32121.3	35279.3	40568.0	33694.3
62.5°	26274.9	25897.7	24685.9	24681.9	25544.6	28277.2	33429.5	34749.6	37081.0	42221.2	34817.8
65°	24051.9	23815.1	23096.9	24645.8	26924.9	31062.0	36852.3	38112.2	39372.2	43665.8	35805.0
67.5°	18305.8	18337.9	18285.7	21275.1	25809.4	35062.6	41807.9	41711.6	42201.1	45286.9	36940.5
70°	8370.4	8559.0	9786.9	14686.3	20677.2	35524.1	50001.8	48753.8	45752.3	47385.5	37923.6
72.5°	4522.3	4666.7	5168.3	7114.4	12431.2	31583.6	56125.1	57011.9	50475.2	48798.0	36844.2
75°	3318.5	3398.7	3747.8	4522.3	5220.5	23474.1	53930.1	58480.5	51065.1	45503.6	31816.4
77.5°	2483.8	2520.0	2804.8	3583.3	2672.4	12375.0	43092.0	48432.8	43713.9	37386.0	23502.1
80°	1801.7	1841.8	2054.5	2688.5	1873.9	4526.3	29589.4	33995.3	29938.5	23831.2	11713.0
82.5°	1243.9	1260.0	1352.3	1829.8	1308.1	1757.5	16789.0	19934.9	16712.7	8362.4	3162.0
85°	750.4	770.4	810.6	1067.4	742.3	834.6	7246.9	7495.6	4995.8	1998.3	983.1
87.5°	309.0	329.0	361.1	449.4	292.9	232.7	1195.8	1500.7	934.9	585.8	305.0
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°	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2	13691.2
2.5°	13711.3	13683.2	13606.9	13502.6	13406.3	13285.9	13233.8	13189.6	13149.5	13073.2	13037.1
5°	13795.5	13719.3	13514.6	13249.8	12948.9	12619.8	12298.8	12078.1	11889.5	11749.1	11632.7
7.5°	13923.9	13779.5	13406.3	12864.6	12174.4	11468.2	10830.2	10376.7	10035.7	9911.3	9694.6
10°	14056.3	13883.8	13233.8	12278.7	11087.0	9999.5	9152.9	8687.4	8414.5	8326.3	8189.8
12.5°	14212.8	13960.0	12964.9	11464.2	9871.1	8679.4	7941.1	7668.2	7527.7	7479.6	7491.6
15°	14441.6	14024.2	12559.6	10445.0	8711.5	7716.3	7238.8	7050.2	6978.0	6974.0	6990.1
17.5°	14614.1	14036.3	11929.6	9353.5	7820.7	7134.5	6741.3	6669.0	6717.2	6789.4	6817.5
20°	14806.7	13927.9	11103.0	8358.4	7194.7	6624.9	6460.4	6508.5	6624.9	6729.2	6765.3
22.5°	14943.1	13731.3	10103.9	7583.9	6653.0	6332.0	6324.0	6424.3	6488.5	6540.6	6568.7
25°	15063.5	13398.3	9044.5	6933.9	6207.6	6155.4	6243.7	6211.6	6167.5	6211.6	6239.7
27.5°	15151.8	12872.6	8097.5	6364.1	5894.6	6035.0	5982.9	5910.6	5906.6	5930.7	5970.8
30°	15123.7	12170.4	7319.1	5822.4	5673.9	5810.3	5685.9	5673.9	5661.9	5673.9	5718.0
32.5°	15123.7	11371.9	6721.2	5449.2	5533.5	5481.3	5469.3	5441.2	5393.0	5389.0	5441.2
35°	15208.0	10573.4	6207.6	5248.6	5417.1	5292.7	5300.7	5232.5	5132.2	5084.0	5132.2
37.5°	15380.5	9931.3	5698.0	5152.3	5212.4	5208.4	5176.3	5060.0	4883.4	4730.9	4783.1
40°	15797.8	9742.7	5348.9	5108.1	5116.1	5164.3	5080.0	4855.3	4454.1	4205.3	4237.4
42.5°	16451.9	10059.7	5272.6	4999.8	5051.9	5100.1	4935.6	4413.9	4129.0	3980.6	3980.6
45°	17282.5	10613.5	5437.2	4843.3	4899.5	4983.7	4494.2	4245.4	4117.0	4121.0	4141.1
47.5°	18333.8	11195.3	5742.1	4706.8	4678.8	4726.9	4201.3	4048.8	3872.2	3916.4	4028.7
50°	19549.7	11785.2	6031.0	4522.3	4434.0	4277.5	4012.7	3868.2	3643.5	3539.2	3567.3
52.5°	20865.8	12355.0	6147.4	4297.6	4169.2	3988.6	3884.3	3707.7	3434.8	3262.3	3258.3
55°	22113.8	12872.6	6019.0	4028.7	3904.3	3763.9	3747.8	3639.5	3346.6	3105.8	3105.8
57.5°	23293.5	13306.0	5698.0	3755.8	3635.5	3551.2	3659.5	3607.4	3238.2	2929.2	2913.2
60°	24292.6	13602.9	5232.5	3479.0	3394.7	3350.6	3515.1	3499.0	3085.7	2740.6	2728.6
62.5°	25087.1	13719.3	4718.9	3214.1	3194.1	3113.8	3314.5	3314.5	2893.1	2556.1	2544.0
65°	25709.1	13606.9	4197.2	2953.3	2993.4	2873.1	3069.7	3045.6	2688.5	2391.5	2375.5
67.5°	26258.8	13237.8	3619.4	2696.5	2788.8	2636.3	2812.9	2756.7	2463.8	2227.0	2211.0
70°	26503.6	12379.1	2961.3	2439.7	2552.1	2403.6	2556.1	2451.7	2211.0	2050.5	2018.4
72.5°	24537.4	10288.5	2331.4	2170.8	2267.2	2146.8	2279.2	2158.8	1938.1	1865.9	1805.7
75°	20300.0	7720.4	1793.7	1877.9	1950.2	1857.9	1946.1	1857.9	1657.2	1709.4	1560.9
77.5°	14742.5	5212.4	1372.3	1568.9	1601.1	1552.9	1629.1	1528.8	1348.3	1336.2	1276.0
80°	7331.1	3053.6	1075.4	1239.9	1227.9	1195.8	1284.1	1235.9	1083.4	1147.6	1135.6
82.5°	2122.7	1308.1	782.5	870.7	846.7	854.7	918.9	943.0	1412.5	1400.4	1432.5
85°	666.1	513.6	469.5	485.5	461.5	473.5	541.7	1075.4	995.1	581.8	630.0
87.5°	172.5	176.6	116.4	124.4	128.4	152.5	172.5	654.1	313.0	204.6	216.7
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)