

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: P532924

Luminaire Tested: **GALN-SA8B-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532924
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-SA8B-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 39175 lumens
Efficiency: N/A
Efficacy: 120.5 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

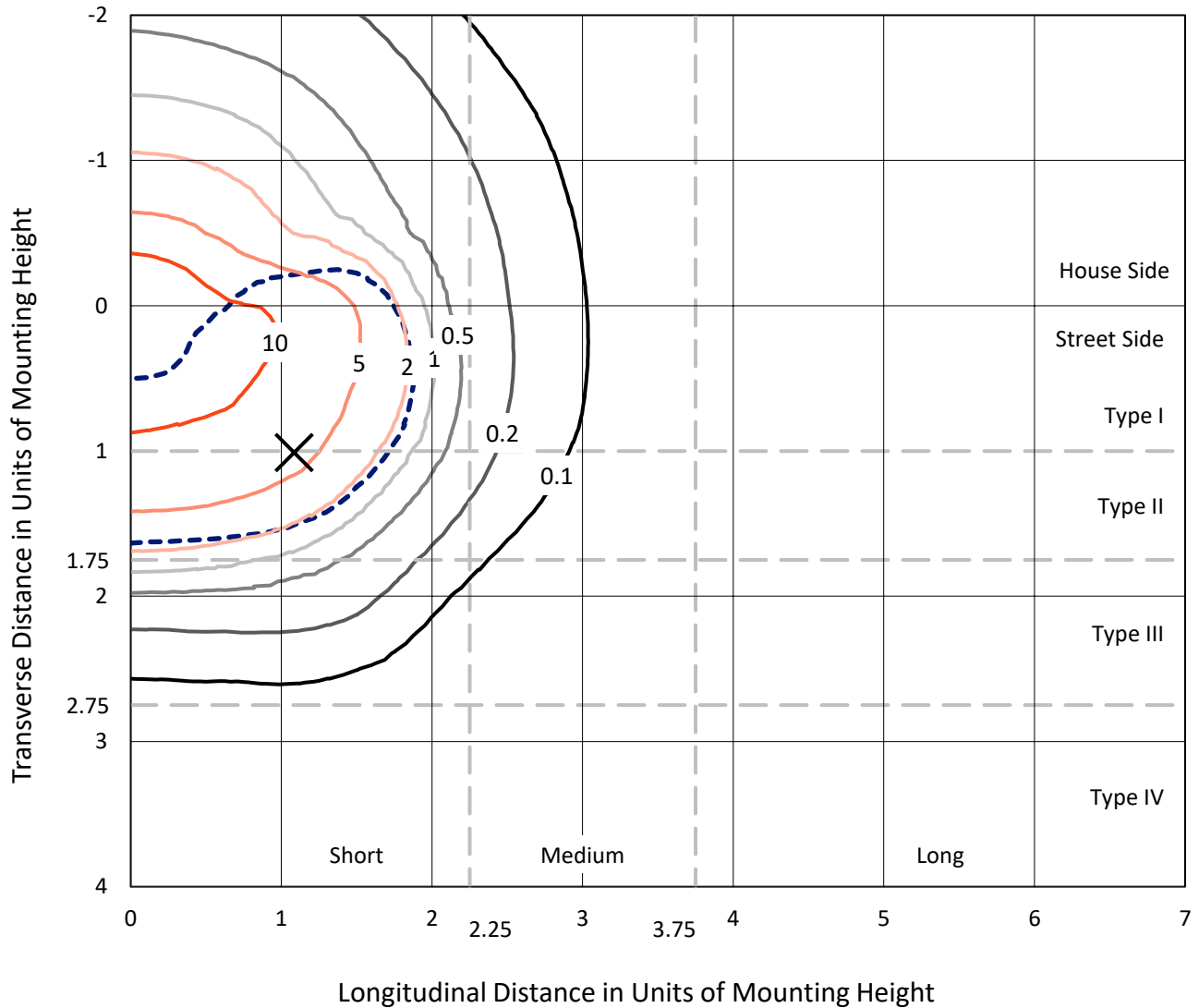
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

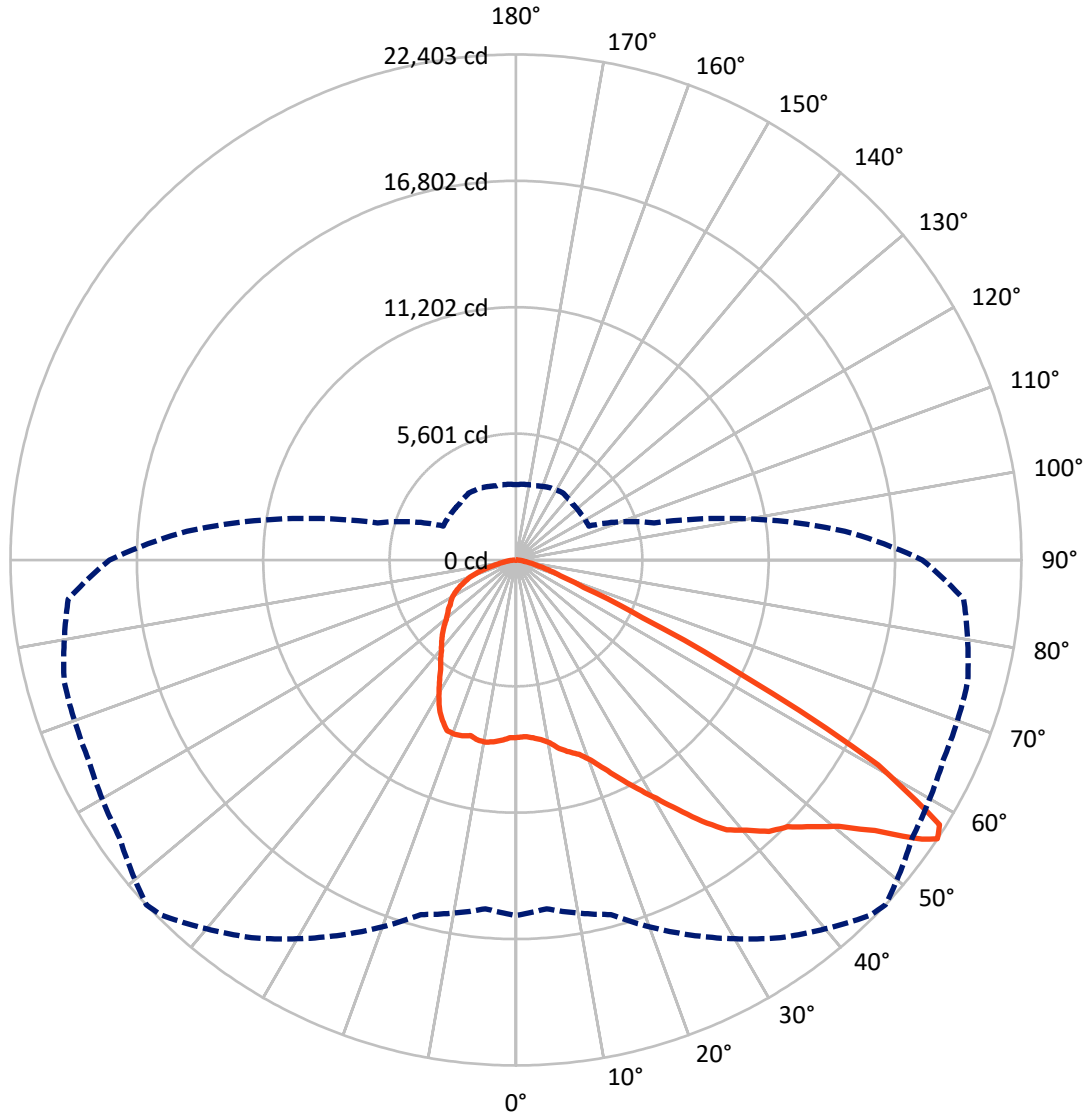
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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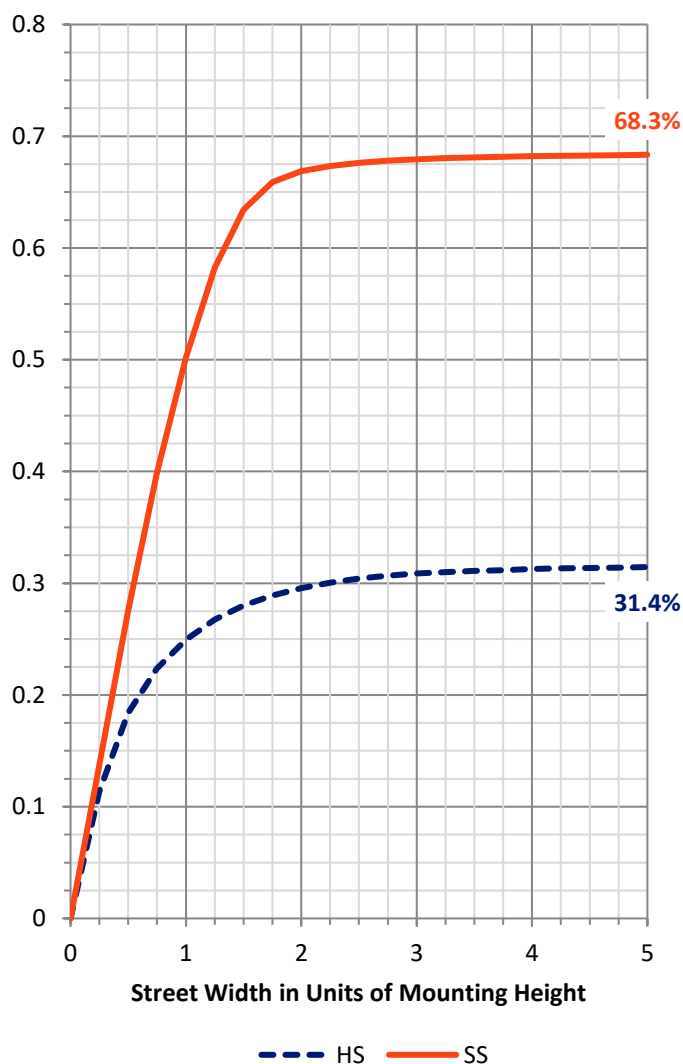
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12414.1	0.0	12414.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	26760.9	0.0	26760.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	39175.0	0.0	39175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.7	2.0
10°-20°	2418.7	6.2
20°-30°	4275.6	10.9
30°-40°	6421.8	16.4
40°-50°	8813.3	22.5
50°-60°	10499.9	26.8
60°-70°	4493.3	11.5
70°-80°	1271.6	3.2
80°-90°	214.0	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°	39175.0	100.0
0°-180°	39175.0	100.0

Coefficient of Utilization



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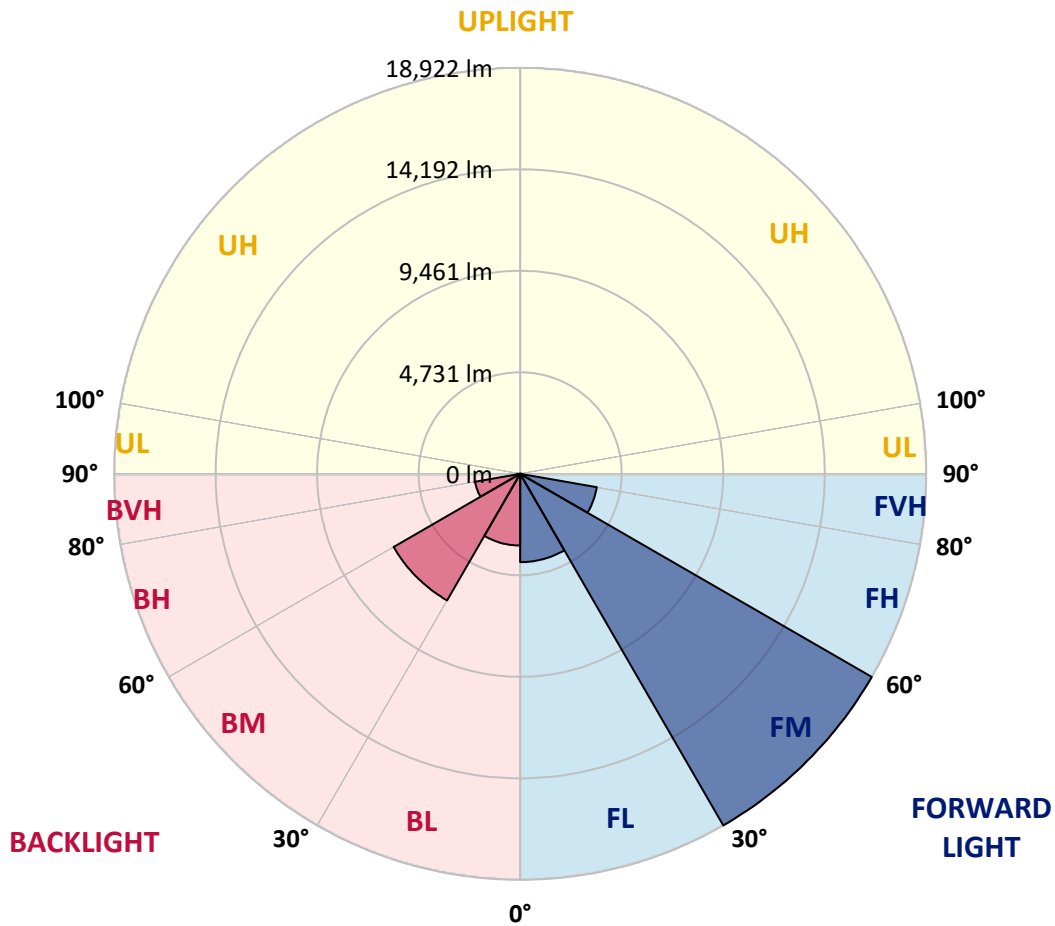
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4118.6	10.5			
FM (30°-60°)	18922.4	48.3			
FH (60°-80°)	3629.0	9.3			G2/5000
FVH (80°-90°)	90.8	0.2			G1/100
BL (0°-30°)	3342.4	8.5	B4/5000		
BM (30°-60°)	6812.6	17.4	B4/8500		
BH (60°-80°)	2135.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	123.2	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°	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1
2.5°	7839.1	7824.1	7814.1	7894.0	7864.1	7869.1	7839.1	7869.1	7889.1	7844.1	7909.0
5°	7824.1	7869.1	7829.1	7854.1	7919.0	7899.0	7919.0	7979.0	7964.0	7949.0	7929.0
7.5°	7964.0	7969.0	7999.0	8009.0	8028.9	8009.0	8038.9	8093.9	8078.9	7994.0	8004.0
10°	8163.8	8173.8	8178.8	8233.8	8268.8	8273.8	8238.8	8188.8	8183.8	8298.7	8218.8
12.5°	8393.7	8368.7	8428.6	8448.6	8488.6	8533.6	8578.5	8473.6	8538.6	8543.6	8448.6
15°	8728.4	8753.4	8683.5	8683.5	8698.4	8703.4	8828.3	8778.4	8768.4	8713.4	8753.4
17.5°	9228.0	9058.2	9053.2	8983.2	8973.2	9013.2	9058.2	9098.1	9233.0	9123.1	8908.3
20°	9592.8	9632.7	9487.8	9402.9	9417.9	9507.8	9462.9	9642.7	9737.7	9557.8	9348.0
22.5°	10237.3	10102.4	10137.4	9947.5	9962.5	10057.4	10052.4	10237.3	10292.2	10007.5	9702.7
25°	10672.0	10637.0	10667.0	10517.1	10537.1	10612.0	10731.9	11036.7	10946.7	10632.0	9927.5
27.5°	11306.5	11236.5	11211.5	11156.6	11136.6	11336.5	11476.3	11801.1	11736.2	11276.5	10327.2
30°	11956.0	11911.0	11936.0	11711.2	11791.1	12215.8	12255.8	12700.4	12670.4	11861.1	10771.9
32.5°	12405.6	12430.6	12475.6	12350.7	12705.4	13045.2	13180.1	13684.7	13709.7	12865.3	11631.2
35°	13130.1	13045.2	13070.1	13215.0	13379.9	13999.4	14219.3	14554.0	14763.9	13919.5	12455.6
37.5°	13584.8	13674.7	13569.8	13799.6	14229.3	14973.7	15173.6	15518.3	15738.1	14958.7	13579.8
40°	14294.2	14149.3	14224.3	14389.2	14828.8	15798.1	15743.1	16097.9	16167.8	15843.1	14629.0
42.5°	15058.6	14988.7	14883.8	15258.5	15628.2	16332.7	16442.6	16277.7	16632.5	16707.4	16127.8
45°	15973.0	16057.9	16072.9	16082.9	16407.6	17022.2	16872.3	16727.4	17137.1	17681.7	17057.1
47.5°	16822.3	16552.5	16747.4	17017.2	17476.8	17481.8	17656.7	17311.9	17746.6	18231.3	17896.5
50°	17107.1	16977.2	17237.0	17746.6	18456.1	18531.0	18551.0	18061.4	18286.2	18670.9	18186.3
52.5°	16997.2	16952.2	17616.7	18406.1	19445.3	19825.1	19925.0	19320.4	19445.3	19270.5	18825.8
55°	16472.6	16607.5	17277.0	18885.8	20479.6	21653.7	21843.5	21079.1	20284.7	20419.6	19930.0
56°	15753.1	15518.3	16267.7	18341.2	20434.6	22248.2	22403.1	21448.8	20909.2	20734.4	19920.0
57.5°	13364.9	13060.2	14044.4	16502.6	19300.4	22023.4	22138.3	21603.7	20804.3	20449.6	18466.1
60°	7824.1	7974.0	9223.0	11381.4	14888.8	18056.4	18441.1	18830.8	18296.2	16707.4	13744.6
62.5°	3777.2	3682.2	4576.5	6525.1	9073.2	11526.3	11411.4	12505.6	13105.1	11871.1	8678.5
65°	1978.5	1968.5	2498.1	3562.3	4986.2	6055.4	6160.4	6749.9	7574.3	6115.4	4406.7
67.5°	1453.9	1493.9	1758.7	2503.1	3207.6	3272.5	3257.5	3552.3	3632.3	3072.7	2708.0
70°	1139.1	1159.1	1354.0	1903.6	2388.2	2138.4	2093.4	2128.4	2363.2	2463.1	2343.2
72.5°	824.4	844.4	1009.2	1284.0	1493.9	1458.9	1488.9	1683.7	1973.5	2078.4	1953.5
75°	549.6	564.6	654.5	784.4	884.3	954.3	1009.2	1234.1	1503.9	1563.8	1503.9
77.5°	379.7	394.7	454.7	554.6	564.6	609.5	629.5	734.4	899.3	974.3	934.3
80°	214.8	214.8	244.8	284.8	349.7	409.7	419.7	504.6	579.6	629.5	639.5
82.5°	99.9	104.9	129.9	174.9	229.8	284.8	294.8	349.7	404.7	454.7	469.6
85°	50.0	55.0	74.9	104.9	139.9	169.9	164.9	169.9	179.9	169.9	174.9
87.5°	15.0	15.0	20.0	25.0	20.0	25.0	25.0	30.0	35.0	40.0	45.0
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°	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1	7869.1
2.5°	7914.0	7929.0	7829.1	7924.0	7889.1	7884.1	7954.0	7944.0	7969.0	7959.0	7899.0
5°	7919.0	7884.1	7989.0	7894.0	7939.0	8033.9	7969.0	8118.9	8043.9	8093.9	7984.0
7.5°	8073.9	8083.9	8063.9	8103.9	8083.9	8128.9	8093.9	8128.9	8068.9	8073.9	8173.8
10°	8208.8	8178.8	8213.8	8163.8	8198.8	8183.8	8103.9	8078.9	8098.9	8073.9	8138.9
12.5°	8458.6	8403.7	8378.7	8318.7	8278.8	8128.9	8004.0	7934.0	8028.9	8043.9	8014.0
15°	8713.4	8718.4	8603.5	8468.6	8218.8	7994.0	8024.0	8048.9	8048.9	8088.9	8014.0
17.5°	8873.3	8873.3	8768.4	8498.6	8243.8	8113.9	8083.9	8004.0	7934.0	7924.0	7919.0
20°	9153.1	9068.2	8828.3	8493.6	8233.8	8173.8	7949.0	7759.2	7614.3	7564.3	7559.3
22.5°	9472.9	9258.0	8923.3	8503.6	8218.8	8133.9	7714.2	7429.4	7169.6	7059.7	7074.7
25°	9767.6	9422.9	8978.2	8458.6	8163.8	7754.2	7284.5	6889.8	6620.0	6530.1	6485.1
27.5°	9972.5	9597.8	8978.2	8498.6	7959.0	7329.5	6849.8	6345.2	6110.4	6050.4	6060.4
30°	10247.3	9817.6	9133.1	8413.7	7549.3	6779.9	6205.3	5875.6	5735.7	5685.7	5720.7
32.5°	10891.8	10392.2	9348.0	8208.8	7064.7	6230.3	5765.7	5580.8	5375.9	5276.0	5241.0
35°	11591.3	10936.8	9557.8	7864.1	6520.1	5730.7	5440.9	5271.0	5026.2	4916.3	4936.3
37.5°	12580.5	11636.2	9572.8	7294.5	5930.5	5450.9	5186.1	4921.3	4721.4	4551.6	4501.6
40°	13914.5	12590.5	9537.8	6695.0	5455.9	5121.1	4926.3	4596.5	4371.7	4251.8	4276.8
42.5°	15088.6	13709.7	9392.9	6015.5	5026.2	4896.3	4676.5	4351.7	4131.9	4007.0	3997.0
45°	16077.9	14534.0	9118.1	5435.9	4666.5	4646.5	4391.7	4141.9	3967.0	3852.1	3902.1
47.5°	16992.2	15198.5	8703.4	4856.3	4336.7	4376.7	4131.9	3977.0	3867.1	3762.2	3757.2
50°	17321.9	15188.5	8338.7	4376.7	4071.9	4051.9	4042.0	3877.1	3762.2	3672.2	3712.2
52.5°	17871.5	15358.4	7944.0	4046.9	3832.1	3837.1	3872.1	3752.2	3622.3	3567.3	3617.3
55°	18660.9	15383.4	7074.7	3662.2	3632.3	3667.2	3667.2	3587.3	3477.4	3432.4	3407.4
56°	18016.4	14639.0	6345.2	3562.3	3532.3	3532.3	3627.3	3537.3	3402.4	3367.5	3337.5
57.5°	16617.5	12825.3	5311.0	3442.4	3397.4	3467.4	3517.3	3422.4	3297.5	3247.6	3277.5
60°	11461.4	8678.5	3992.0	3182.6	3182.6	3297.5	3337.5	3197.6	3142.6	3137.6	3097.7
62.5°	6690.0	5056.2	3122.6	2947.8	2957.8	3052.7	3082.7	3002.7	2932.8	3017.7	3057.7
65°	3547.3	3017.7	2678.0	2698.0	2703.0	2777.9	2907.8	2902.8	2897.8	2922.8	2927.8
67.5°	2568.1	2508.1	2433.2	2413.2	2423.2	2478.1	2608.0	2708.0	2703.0	2643.0	2598.0
70°	2288.3	2203.3	2158.4	2163.4	2123.4	2188.4	2293.3	2358.2	2243.3	2173.4	2143.4
72.5°	1903.6	1878.6	1848.6	1853.6	1773.7	1758.7	1638.8	1638.8	1608.8	1588.8	1623.8
75°	1453.9	1443.9	1458.9	1433.9	1349.0	1259.1	1189.1	1124.2	1024.2	984.3	964.3
77.5°	919.3	949.3	984.3	929.3	894.3	829.4	759.4	694.5	614.5	569.6	569.6
80°	624.5	649.5	674.5	664.5	624.5	564.6	509.6	439.7	384.7	349.7	344.7
82.5°	474.6	494.6	529.6	489.6	449.7	399.7	354.7	304.8	254.8	214.8	214.8
85°	169.9	194.9	214.8	234.8	249.8	254.8	219.8	179.9	144.9	114.9	109.9
87.5°	45.0	50.0	55.0	50.0	50.0	50.0	55.0	50.0	45.0	35.0	35.0
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)