

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: P534406

Luminaire Tested: **GALN-SA9D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534406
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-SA9D-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 43954 lumens
Efficiency: N/A
Efficacy: 79.6 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

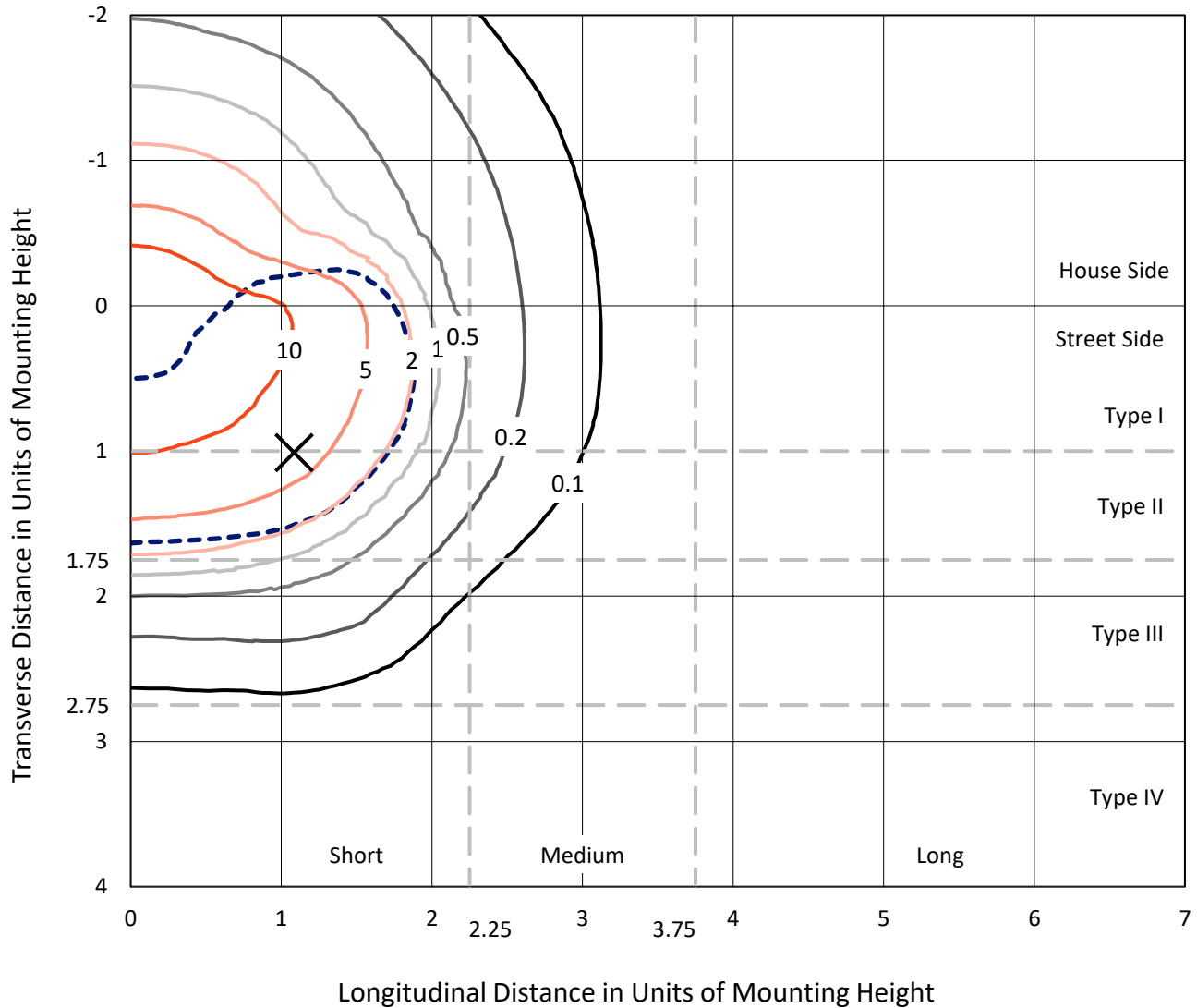
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

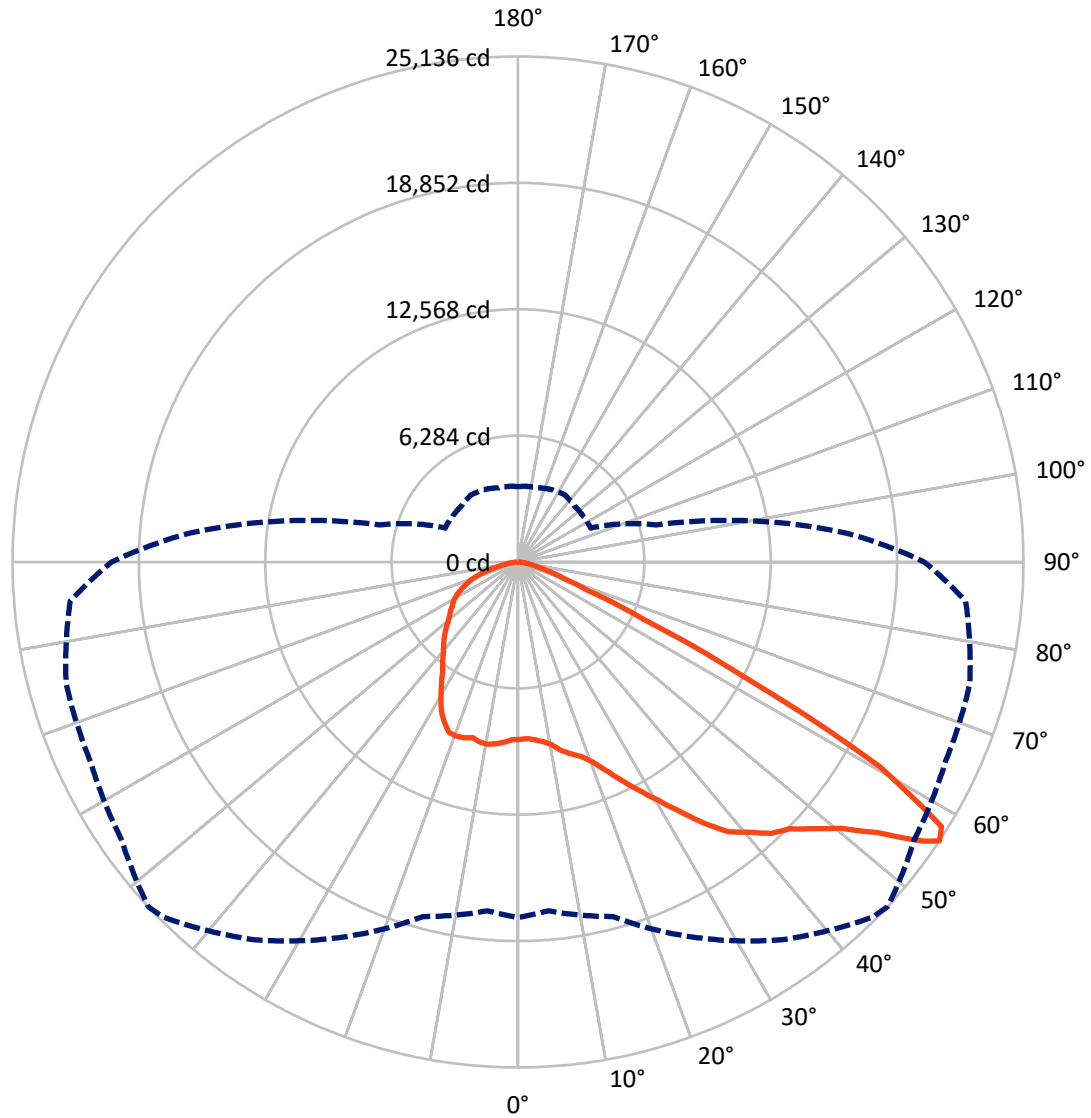
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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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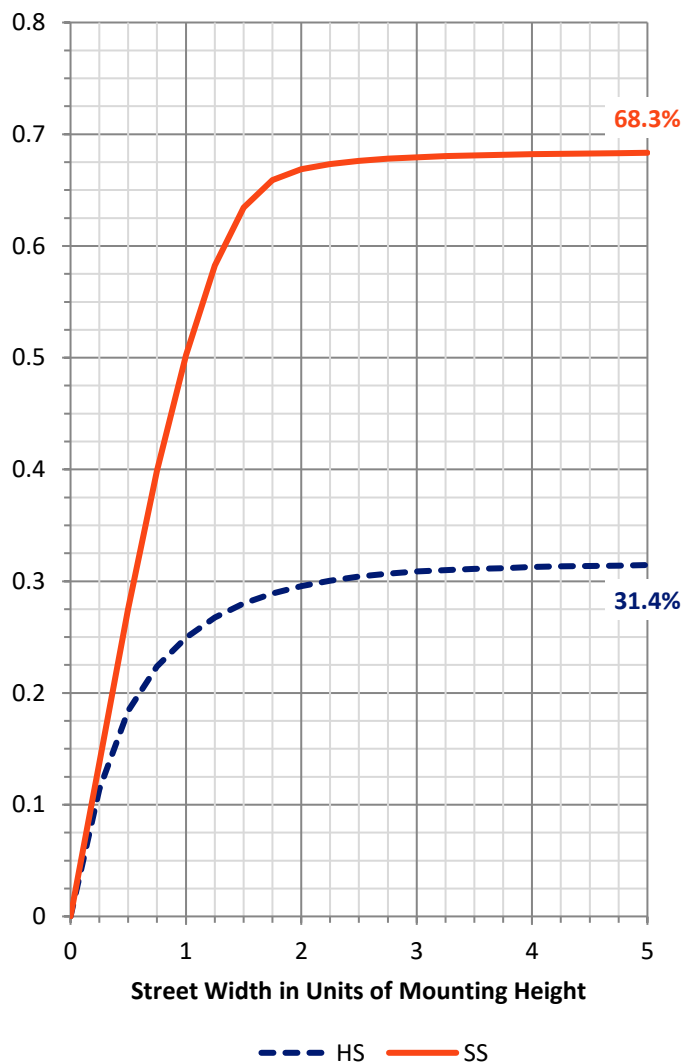
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13928.5	0.0	13928.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	30025.5	0.0	30025.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	43954.0	0.0	43954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.3	2.0
10°-20°	2713.7	6.2
20°-30°	4797.2	10.9
30°-40°	7205.2	16.4
40°-50°	9888.5	22.5
50°-60°	11780.8	26.8
60°-70°	5041.5	11.5
70°-80°	1426.7	3.2
80°-90°	240.1	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°	43954.0	100.0
0°-180°	43954.0	100.0

Coefficient of Utilization



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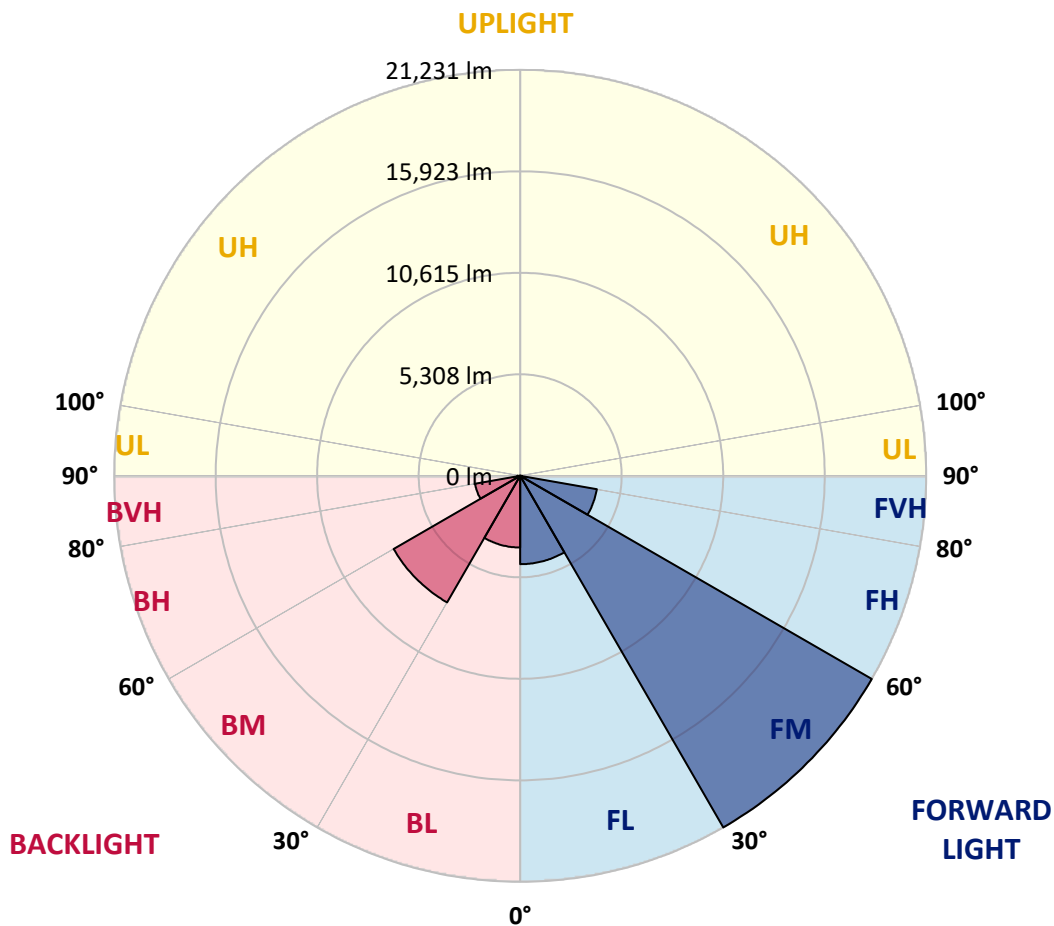
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4621.1	10.5			
FM (30°-60°)	21230.8	48.3			
FH (60°-80°)	4071.7	9.3			G2/5000
FVH (80°-90°)	101.9	0.2			G2/225
BL (0°-30°)	3750.1	8.5	B4/5000		
BM (30°-60°)	7643.7	17.4	B4/8500		
BH (60°-80°)	2396.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	138.2	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°	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0
2.5°	8795.4	8778.6	8767.4	8857.1	8823.4	8829.0	8795.4	8829.0	8851.4	8801.0	8873.9
5°	8778.6	8829.0	8784.2	8812.2	8885.1	8862.7	8885.1	8952.3	8935.5	8918.7	8896.3
7.5°	8935.5	8941.1	8974.8	8986.0	9008.4	8986.0	9019.6	9081.3	9064.5	8969.2	8980.4
10°	9159.8	9171.0	9176.6	9238.2	9277.5	9283.1	9243.8	9187.8	9182.2	9311.1	9221.4
12.5°	9417.6	9389.6	9456.9	9479.3	9524.1	9574.6	9625.0	9507.3	9580.2	9585.8	9479.3
15°	9793.2	9821.2	9742.8	9742.8	9759.6	9765.2	9905.3	9849.3	9838.1	9776.4	9821.2
17.5°	10353.8	10163.2	10157.6	10079.1	10067.9	10112.7	10163.2	10208.0	10359.4	10236.1	9995.0
20°	10763.0	10807.8	10645.3	10550.0	10566.8	10667.7	10617.3	10819.1	10925.6	10723.8	10488.3
22.5°	11486.1	11334.8	11374.0	11161.0	11177.8	11284.3	11278.7	11486.1	11547.8	11228.3	10886.3
25°	11973.8	11934.6	11968.2	11800.1	11822.5	11906.6	12041.1	12383.1	12282.2	11929.0	11138.6
27.5°	12685.8	12607.3	12579.3	12517.6	12495.2	12719.4	12876.4	13240.7	13167.9	12652.1	11587.0
30°	13414.5	13364.1	13392.1	13139.8	13229.5	13706.0	13750.9	14249.8	14216.1	13308.0	12086.0
32.5°	13919.0	13947.1	13997.5	13857.4	14255.4	14636.6	14787.9	15354.1	15382.1	14434.8	13050.1
35°	14731.9	14636.6	14664.6	14827.2	15012.1	15707.3	15953.9	16329.5	16564.9	15617.6	13975.1
37.5°	15242.0	15342.9	15225.2	15483.0	15965.1	16800.4	17024.6	17411.4	17658.0	16783.6	15236.4
40°	16038.0	15875.4	15959.5	16144.5	16637.8	17725.3	17663.7	18061.7	18140.1	17775.8	16413.6
42.5°	16895.7	16817.2	16699.5	17119.9	17534.7	18325.1	18448.5	18263.5	18661.5	18745.6	18095.3
45°	17921.5	18016.8	18033.6	18044.8	18409.2	19098.7	18930.5	18768.0	19227.7	19838.7	19138.0
47.5°	18874.5	18571.8	18790.4	19093.1	19608.8	19614.4	19810.6	19423.9	19911.5	20455.3	20079.7
50°	19194.0	19048.3	19339.8	19911.5	20707.6	20791.6	20814.1	20264.7	20517.0	20948.6	20404.9
52.5°	19070.7	19020.2	19765.8	20651.5	21817.5	22243.5	22355.6	21677.4	21817.5	21621.3	21122.4
55°	18482.1	18633.4	19384.6	21189.7	22977.9	24295.2	24508.2	23650.6	22759.3	22910.6	22361.3
56°	17674.9	17411.4	18252.3	20578.6	22927.4	24962.3	25136.1	24065.4	23460.0	23263.8	22350.0
57.5°	14995.3	14653.4	15757.7	18515.7	21654.9	24710.1	24839.0	24239.2	23342.3	22944.2	20718.8
60°	8778.6	8946.7	10348.2	12769.9	16705.1	20259.1	20690.7	21128.0	20528.2	18745.6	15421.4
62.5°	4237.9	4131.4	5134.8	7321.1	10180.0	12932.4	12803.5	14031.1	14703.8	13319.2	9737.2
65°	2219.9	2208.7	2802.9	3996.9	5594.5	6794.1	6911.9	7573.3	8498.3	6861.4	4944.3
67.5°	1631.3	1676.1	1973.2	2808.5	3598.9	3671.8	3654.9	3985.7	4075.4	3447.5	3038.3
70°	1278.1	1300.5	1519.2	2135.8	2679.5	2399.3	2348.8	2388.0	2651.5	2763.6	2629.1
72.5°	924.9	947.4	1132.4	1440.7	1676.1	1636.9	1670.5	1889.1	2214.3	2332.0	2191.8
75°	616.6	633.4	734.4	880.1	992.2	1070.7	1132.4	1384.6	1687.3	1754.6	1687.3
77.5°	426.0	442.9	510.1	622.2	633.4	683.9	706.3	824.0	1009.0	1093.1	1048.3
80°	241.0	241.0	274.7	319.5	392.4	459.7	470.9	566.2	650.3	706.3	717.5
82.5°	112.1	117.7	145.7	196.2	257.9	319.5	330.7	392.4	454.1	510.1	526.9
85°	56.1	61.7	84.1	117.7	157.0	190.6	185.0	190.6	201.8	190.6	196.2
87.5°	16.8	16.8	22.4	28.0	22.4	28.0	28.0	33.6	39.2	44.8	50.5
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°	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0	8829.0
2.5°	8879.5	8896.3	8784.2	8890.7	8851.4	8845.8	8924.3	8913.1	8941.1	8929.9	8862.7
5°	8885.1	8845.8	8963.6	8857.1	8907.5	9014.0	8941.1	9109.3	9025.2	9081.3	8958.0
7.5°	9058.9	9070.1	9047.6	9092.5	9070.1	9120.5	9081.3	9120.5	9053.3	9058.9	9171.0
10°	9210.2	9176.6	9215.8	9159.8	9199.0	9182.2	9092.5	9064.5	9086.9	9058.9	9131.7
12.5°	9490.5	9428.8	9400.8	9333.5	9288.7	9120.5	8980.4	8901.9	9008.4	9025.2	8991.6
15°	9776.4	9782.0	9653.1	9501.7	9221.4	8969.2	9002.8	9030.8	9030.8	9075.7	8991.6
17.5°	9955.8	9955.8	9838.1	9535.3	9249.5	9103.7	9070.1	8980.4	8901.9	8890.7	8885.1
20°	10269.7	10174.4	9905.3	9529.7	9238.2	9171.0	8918.7	8705.7	8543.1	8487.1	8481.5
22.5°	10628.5	10387.4	10011.8	9541.0	9221.4	9126.1	8655.2	8335.7	8044.2	7920.9	7937.7
25°	10959.2	10572.4	10073.5	9490.5	9159.8	8700.1	8173.2	7730.3	7427.6	7326.7	7276.2
27.5°	11189.0	10768.6	10073.5	9535.3	8929.9	8223.6	7685.5	7119.3	6855.8	6788.5	6799.7
30°	11497.4	11015.3	10247.3	9440.0	8470.3	7607.0	6962.3	6592.3	6435.4	6379.3	6418.6
32.5°	12220.5	11659.9	10488.3	9210.2	7926.5	6990.3	6469.0	6261.6	6031.8	5919.6	5880.4
35°	13005.3	12270.9	10723.8	8823.4	7315.5	6429.8	6104.6	5914.0	5639.4	5516.0	5538.5
37.5°	14115.2	13055.7	10740.6	8184.4	6654.0	6115.9	5818.7	5521.6	5297.4	5106.8	5050.8
40°	15612.0	14126.4	10701.3	7511.7	6121.5	5745.9	5527.2	5157.3	4905.0	4770.5	4798.5
42.5°	16929.3	15382.1	10538.8	6749.3	5639.4	5493.6	5247.0	4882.6	4635.9	4495.8	4484.6
45°	18039.2	16307.1	10230.5	6099.0	5235.8	5213.3	4927.4	4647.1	4450.9	4322.0	4378.1
47.5°	19065.1	17052.6	9765.2	5448.8	4865.8	4910.6	4635.9	4462.2	4338.8	4221.1	4215.5
50°	19435.1	17041.4	9356.0	4910.6	4568.7	4546.2	4535.0	4350.0	4221.1	4120.2	4165.1
52.5°	20051.7	17232.0	8913.1	4540.6	4299.6	4305.2	4344.4	4209.9	4064.2	4002.5	4058.5
55°	20937.4	17260.0	7937.7	4109.0	4075.4	4114.6	4114.6	4024.9	3901.6	3851.1	3823.1
56°	20214.3	16424.8	7119.3	3996.9	3963.3	3963.3	4069.8	3968.9	3817.5	3778.3	3744.6
57.5°	18644.7	14389.9	5958.9	3862.3	3811.9	3890.4	3946.4	3839.9	3699.8	3643.7	3677.4
60°	12859.5	9737.2	4479.0	3570.8	3570.8	3699.8	3744.6	3587.7	3526.0	3520.4	3475.6
62.5°	7506.1	5673.0	3503.6	3307.4	3318.6	3425.1	3458.7	3369.0	3290.6	3385.9	3430.7
65°	3980.1	3385.9	3004.7	3027.1	3032.7	3116.8	3262.5	3256.9	3251.3	3279.4	3285.0
67.5°	2881.3	2814.1	2730.0	2707.6	2718.8	2780.4	2926.2	3038.3	3032.7	2965.4	2915.0
70°	2567.4	2472.1	2421.7	2427.3	2382.4	2455.3	2573.0	2645.9	2517.0	2438.5	2404.9
72.5°	2135.8	2107.8	2074.1	2079.7	1990.0	1973.2	1838.7	1838.7	1805.0	1782.6	1821.9
75°	1631.3	1620.1	1636.9	1608.8	1513.5	1412.6	1334.2	1261.3	1149.2	1104.3	1081.9
77.5°	1031.5	1065.1	1104.3	1042.7	1003.4	930.6	852.1	779.2	689.5	639.1	639.1
80°	700.7	728.7	756.8	745.6	700.7	633.4	571.8	493.3	431.6	392.4	386.8
82.5°	532.5	555.0	594.2	549.4	504.5	448.5	398.0	341.9	285.9	241.0	241.0
85°	190.6	218.6	241.0	263.5	280.3	285.9	246.7	201.8	162.6	128.9	123.3
87.5°	50.5	56.1	61.7	56.1	56.1	56.1	61.7	56.1	50.5	39.2	39.2
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)