

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: P647179

Luminaire Tested: **GALN-SA9C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41859.2 lumens
Efficiency: N/A
Efficacy: 87.0 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

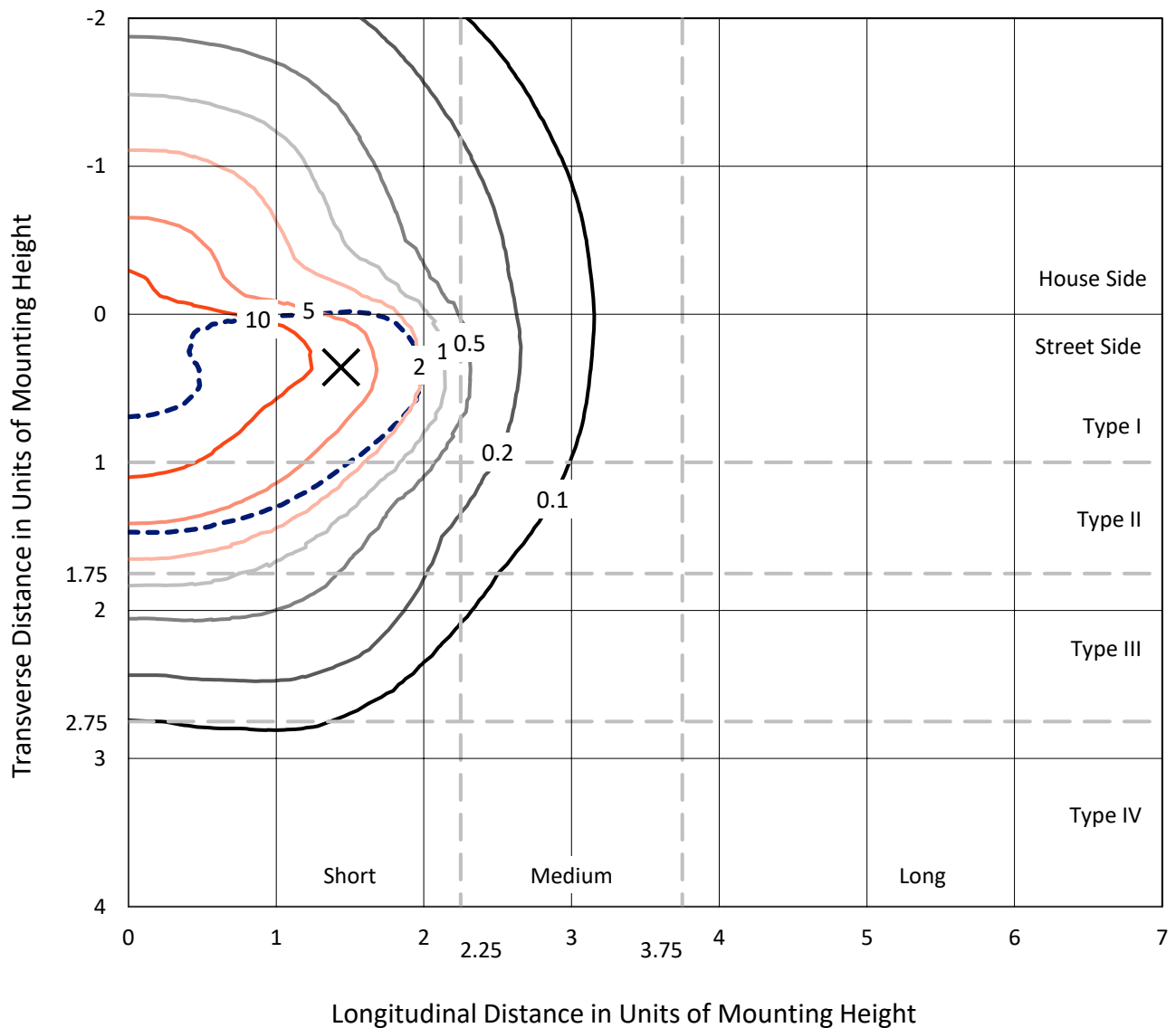
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

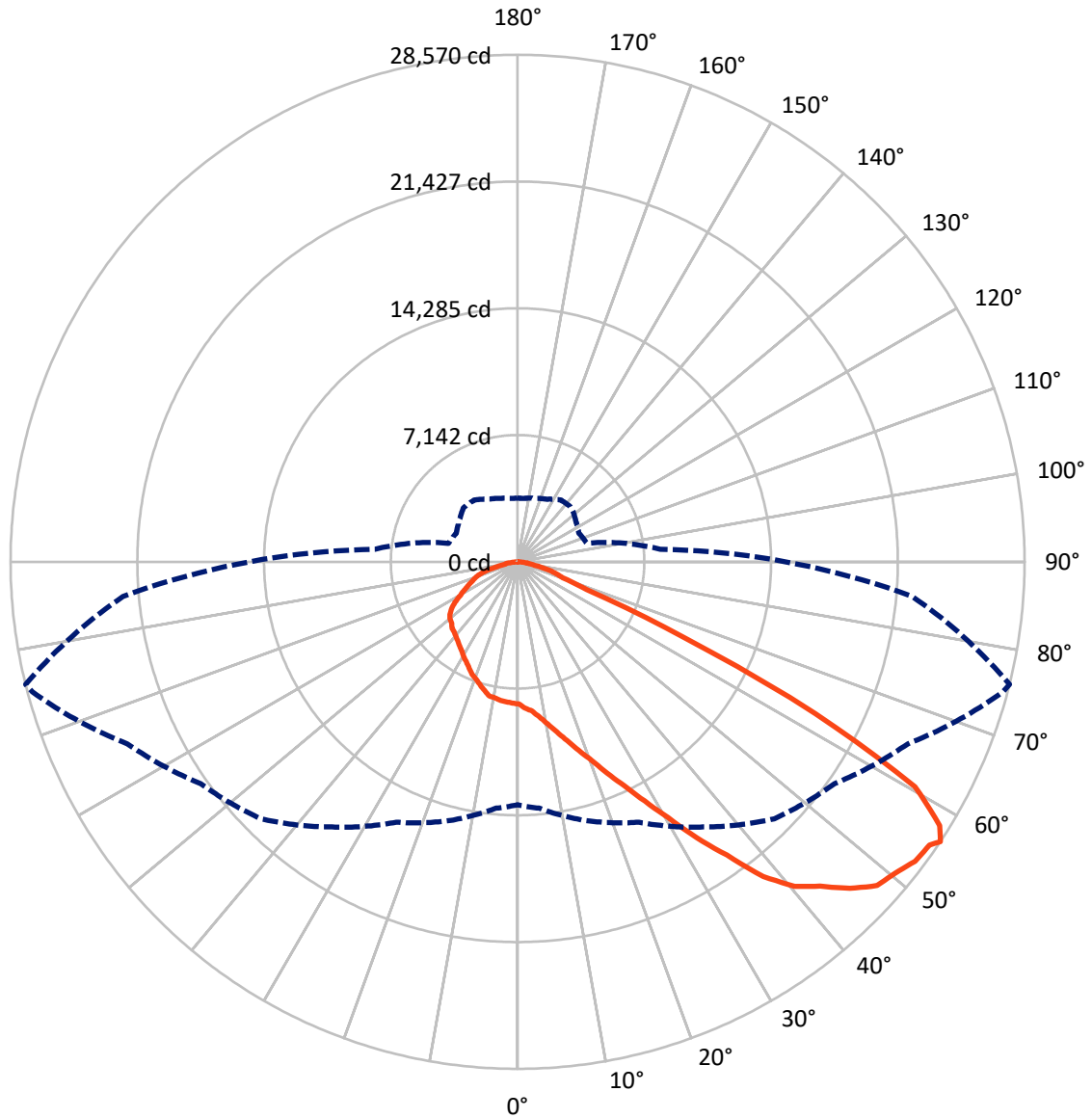
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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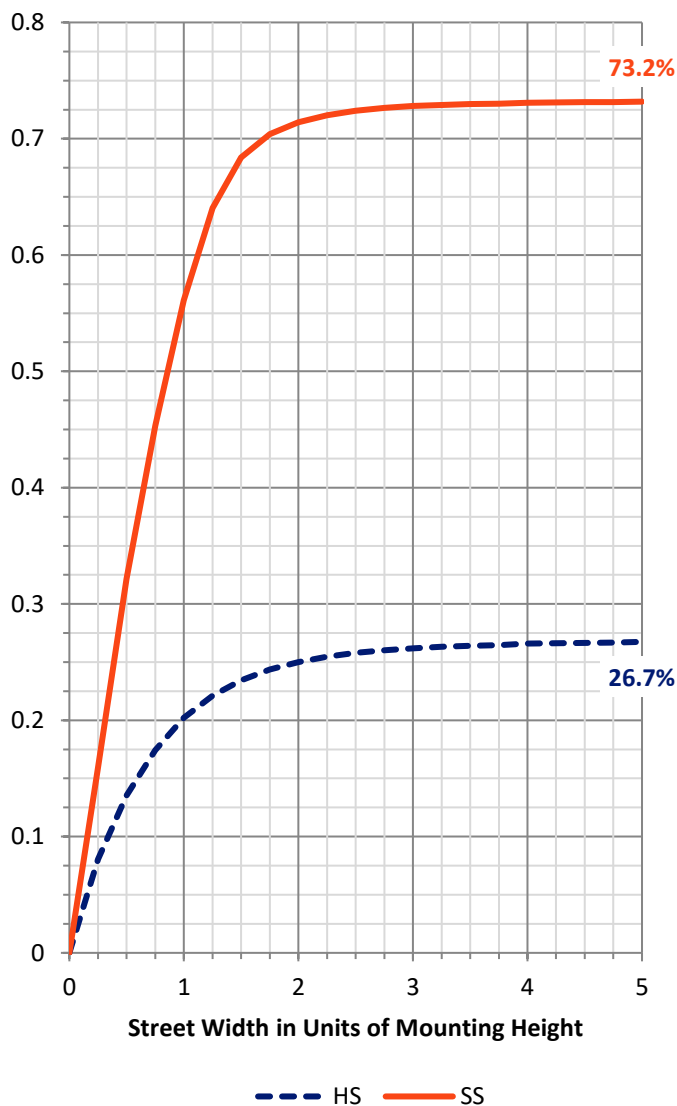
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11254.7	0.0	11254.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	30604.5	0.0	30604.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	41859.2	0.0	41859.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.3	1.9
10°-20°	2495.0	6.0
20°-30°	4363.6	10.4
30°-40°	6832.0	16.3
40°-50°	9938.7	23.7
50°-60°	10923.2	26.1
60°-70°	4875.7	11.6
70°-80°	1408.3	3.4
80°-90°	228.4	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°	41859.2	100.0
0°-180°	41859.2	100.0

Coefficient of Utilization



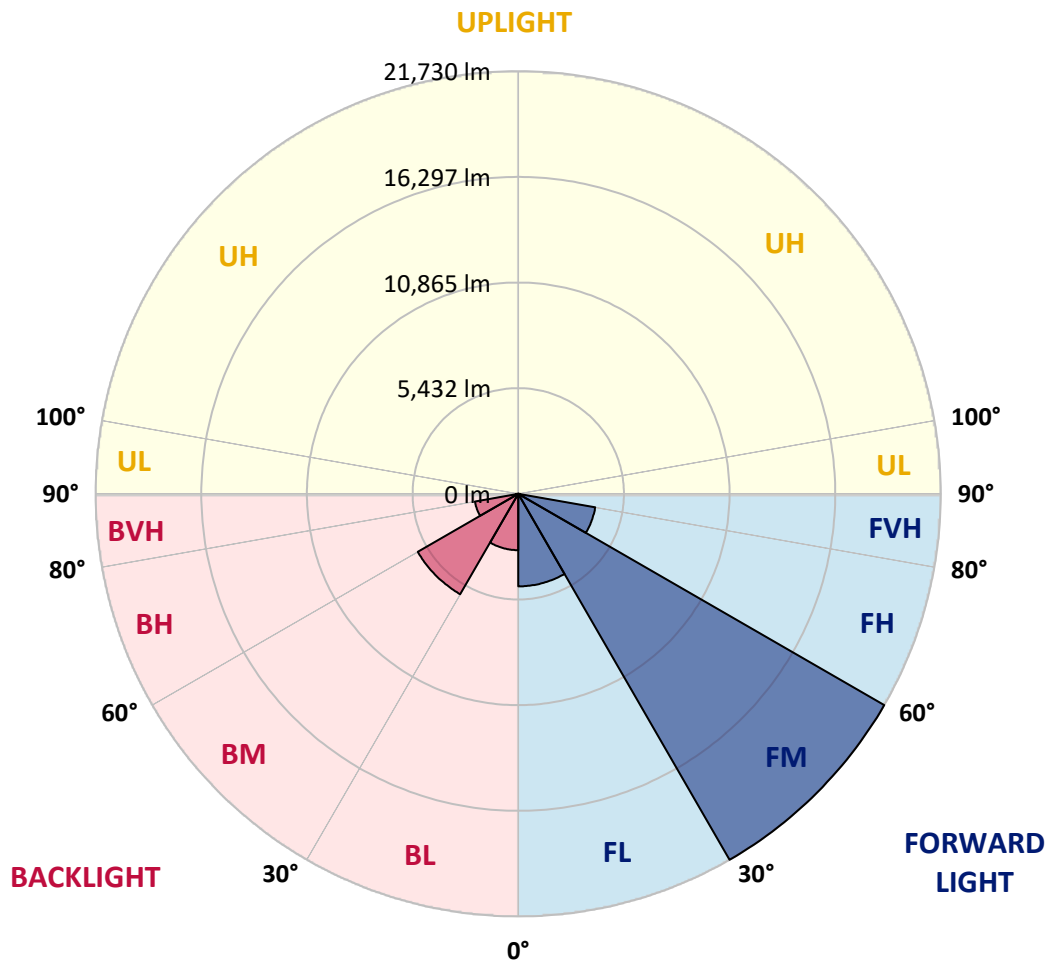
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4756.8	11.4			
FM (30°-60°)	21729.9	51.9			
FH (60°-80°)	4019.5	9.6			G2/5000
FVH (80°-90°)	98.3	0.2			G1/100
BL (0°-30°)	2896.0	6.9	B4/5000		
BM (30°-60°)	5964.1	14.2	B4/8500		
BH (60°-80°)	2264.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	130.1	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°	55°	65°	75°	76°	85°
0°	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2
2.5°	8823.2	8682.1	8671.3	8633.3	8655.0	8557.3	8454.2	8318.5	8177.4	8264.3	8058.1
5°	9441.7	9251.8	9327.8	9197.6	9213.9	9083.7	8872.0	8714.6	8541.0	8437.9	8291.4
7.5°	9658.8	9675.1	9729.3	9707.6	9599.1	9599.1	9458.0	9181.3	8877.4	8817.8	8573.5
10°	9951.9	9957.3	9897.6	9913.9	10065.8	9995.2	9870.4	9751.1	9360.4	9289.8	8855.7
12.5°	10054.9	9957.3	10054.9	10141.7	10320.8	10418.5	10391.3	10304.5	9886.7	9837.8	9203.0
15°	10071.2	10011.5	10092.9	10288.2	10445.6	10858.0	11064.3	11004.5	10451.0	10456.5	9593.7
17.5°	9995.2	10076.7	10109.2	10277.4	10641.0	11026.2	11623.2	11704.5	11248.7	11178.2	10087.5
20°	10098.4	10038.7	10082.1	10234.0	10716.9	11319.3	12100.6	12637.9	11997.5	11948.7	10597.6
22.5°	10494.5	10413.0	10402.2	10499.9	10847.1	11471.2	12605.3	13571.2	12909.2	12936.3	11232.4
25°	10803.8	10847.1	10809.2	10803.8	11020.8	11699.1	13272.7	14683.6	14146.4	13989.0	11981.2
27.5°	11335.6	11438.6	11362.7	11465.8	11416.9	12041.0	13750.3	15915.3	15481.2	15269.6	12659.5
30°	12073.5	12127.8	12057.3	12057.3	11910.8	12518.4	14184.4	17201.3	17022.3	16734.7	13457.2
32.5°	13044.9	13126.2	12985.1	12903.8	12882.0	13229.3	14965.7	18471.1	18775.0	18530.8	14515.3
35°	14330.9	14282.0	14113.8	14037.9	13744.8	14320.0	16127.0	19930.8	20728.4	20294.3	15795.9
37.5°	15465.0	15389.0	15378.1	14954.9	15025.5	15497.5	17114.6	21037.7	22622.2	22497.5	17147.1
40°	16523.1	16593.6	16707.6	16468.8	16360.3	16881.2	18264.9	21884.2	24092.8	24043.9	18188.9
42.5°	17657.2	17592.1	17792.8	17592.1	17429.3	18167.2	19513.0	22470.3	25384.2	24982.7	19279.7
45°	19301.3	19095.2	19165.6	19181.9	19062.6	19333.9	20028.4	22893.6	26290.4	26247.0	20077.3
47.5°	20674.2	20679.7	20560.2	20468.0	20104.5	20375.8	20603.6	23159.4	27332.3	27261.7	20386.6
50°	21184.3	21113.8	21461.0	21661.8	21683.5	21130.0	21054.0	23305.9	27880.4	27571.0	20695.9
52.5°	19350.2	19415.3	19963.4	21157.1	21846.2	21906.0	21580.4	23609.8	28102.8	28037.7	20945.5
55°	15573.5	15888.2	16788.9	18167.2	19800.6	21596.7	22150.1	23924.6	28222.2	28167.9	22052.5
56°	13690.5	13934.7	15106.8	16186.6	18237.8	20473.4	21792.0	24260.9	28314.5	28569.5	22312.9
57.5°	11020.8	11303.0	12144.1	13370.4	15790.5	18335.4	20804.5	23848.6	27956.3	28054.0	22502.9
60°	6891.4	6918.5	7927.8	8736.3	10440.2	12925.5	15877.4	20750.1	25872.6	25731.5	20213.0
62.5°	4520.1	4525.5	5442.6	6104.6	6880.5	7450.3	9344.1	13761.1	19089.7	18840.1	14390.5
65°	3174.4	3244.9	3955.8	4840.3	5155.0	4856.6	4796.8	7255.0	10662.7	10304.5	7732.4
67.5°	2322.5	2327.9	2957.3	3906.9	4362.7	3695.3	3000.8	3543.4	4221.6	4210.8	3581.4
70°	1535.6	1600.8	2083.7	2919.3	3440.3	2968.2	2452.7	2534.1	2686.0	2686.0	2664.3
72.5°	895.4	955.0	1275.2	1850.4	1931.7	1855.8	1942.6	2170.6	2268.2	2262.8	2235.6
75°	510.0	537.2	607.8	770.6	960.4	1134.1	1427.1	1644.1	1741.9	1801.5	1731.0
77.5°	298.5	314.7	358.1	439.5	499.2	613.2	776.0	927.9	1058.1	1041.9	1052.7
80°	157.4	157.4	200.8	260.4	347.3	434.1	515.5	602.3	672.8	689.1	705.4
82.5°	92.2	97.6	130.2	190.0	249.6	309.3	396.1	455.8	520.9	526.3	537.2
85°	48.9	54.3	81.4	124.8	168.2	190.0	195.4	184.5	200.8	190.0	217.0
87.5°	16.3	16.3	27.2	21.7	21.7	27.2	32.6	32.6	43.4	43.4	43.4
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°	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2	8009.2
2.5°	8052.6	8052.6	7960.4	7786.7	7759.6	7689.1	7623.9	7618.5	7569.7	7526.3	7504.6
5°	8204.6	8036.3	7900.7	7743.3	7558.8	7472.0	7374.4	7265.8	7222.4	7265.8	7260.4
7.5°	8378.2	8237.2	7830.2	7537.2	7325.5	7238.7	7130.2	7016.2	7027.0	7027.0	6951.1
10°	8546.4	8356.5	7705.3	7330.9	7021.6	6956.5	6896.8	6940.2	6994.5	7005.3	6956.5
12.5°	8828.6	8399.9	7645.7	7124.8	6929.4	6788.3	6826.3	6945.7	7059.6	7027.0	7065.0
15°	9040.2	8437.9	7374.4	6913.1	6668.9	6734.0	6869.7	6951.1	7141.0	7119.3	7157.3
17.5°	9246.4	8459.6	7108.5	6630.9	6527.9	6706.9	6810.0	7043.3	7103.1	7233.3	7282.1
20°	9669.7	8503.0	6837.2	6457.3	6424.7	6630.9	6810.0	6918.5	7048.8	7162.7	7162.7
22.5°	9886.7	8481.3	6658.1	6229.4	6332.5	6462.7	6625.5	6810.0	6810.0	6918.5	6924.0
25°	10158.0	8394.5	6375.9	6120.9	6196.8	6321.6	6506.1	6441.0	6511.6	6511.6	6598.3
27.5°	10467.3	8210.0	6131.8	5925.5	6077.5	6213.1	6240.3	6196.8	6115.5	6104.6	6072.0
30°	10716.9	7982.1	5952.7	5860.4	5985.2	6061.2	5974.4	5882.1	5741.0	5730.2	5654.2
32.5°	11058.8	7699.9	5730.2	5697.6	5838.7	5844.2	5817.0	5675.9	5469.7	5382.9	5296.1
35°	11634.0	7537.2	5562.0	5610.8	5654.2	5637.9	5589.1	5437.2	5231.0	5192.9	5160.4
37.5°	12057.3	7417.8	5388.3	5448.0	5486.0	5507.7	5361.2	5192.9	5198.4	5122.5	5100.7
40°	12534.7	7341.8	5247.2	5274.4	5279.8	5350.3	5171.2	5089.9	5127.9	5079.0	5111.6
42.5°	13147.9	7363.5	5100.7	5079.0	5182.1	5155.0	5068.1	4959.6	4981.4	4834.9	4856.6
45°	13473.5	7510.0	5013.9	4916.2	5030.1	5024.7	4910.8	4807.7	4677.5	4395.3	4406.2
47.5°	13690.5	7548.0	4807.7	4742.6	4862.0	4932.5	4802.3	4563.5	4379.0	4178.2	4129.4
50°	13913.0	7618.5	4710.1	4574.4	4623.2	4791.4	4628.6	4400.7	4221.6	4042.6	4069.7
52.5°	14108.4	7754.2	4520.1	4319.3	4406.2	4590.7	4503.8	4227.1	4031.7	3885.2	3841.8
55°	14976.6	8058.1	4199.9	3939.5	4145.7	4379.0	4330.2	3993.8	3782.1	3706.2	3695.3
56°	15112.2	8068.9	4031.7	3809.3	3999.2	4308.5	4248.8	3890.6	3700.8	3581.4	3586.8
57.5°	15134.0	7938.7	3793.0	3689.9	3852.7	4205.4	4129.4	3809.3	3548.8	3440.3	3407.7
60°	13316.2	6196.8	3494.5	3429.4	3619.3	3890.6	3863.6	3586.8	3293.8	3169.0	3228.6
62.5°	9078.2	4541.8	3261.2	3250.4	3348.0	3613.9	3543.4	3293.8	3049.6	2968.2	2930.2
65°	5285.2	3445.7	3033.3	2989.9	3071.3	3212.3	3261.2	3000.8	2745.7	2691.4	2675.2
67.5°	3120.1	2848.8	2740.3	2669.7	2642.6	2729.5	2767.4	2615.5	2360.4	2284.5	2349.6
70°	2610.1	2534.1	2539.5	2420.1	2355.0	2295.3	2262.8	2127.1	1915.5	1817.8	1790.6
72.5°	2251.9	2219.3	2197.6	2089.1	2029.5	1893.8	1752.7	1617.1	1459.7	1378.3	1383.7
75°	1720.2	1709.3	1720.2	1665.9	1562.8	1454.3	1324.1	1150.4	1031.0	927.9	949.6
77.5°	1025.6	1058.1	1074.4	1052.7	1009.3	911.6	830.2	716.3	602.3	520.9	510.0
80°	705.4	732.6	759.7	732.6	689.1	618.6	531.8	445.0	363.5	320.2	309.3
82.5°	537.2	564.3	580.6	553.5	499.2	423.3	363.5	303.9	238.7	195.4	184.5
85°	195.4	222.5	217.0	260.4	282.2	271.3	233.3	179.1	135.7	97.6	92.2
87.5°	54.3	48.9	54.3	54.3	54.3	48.9	43.4	43.4	43.4	27.2	21.7
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)