

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: P533596

Luminaire Tested: **GALN-SA9A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533596
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-SA9A-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 32394 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

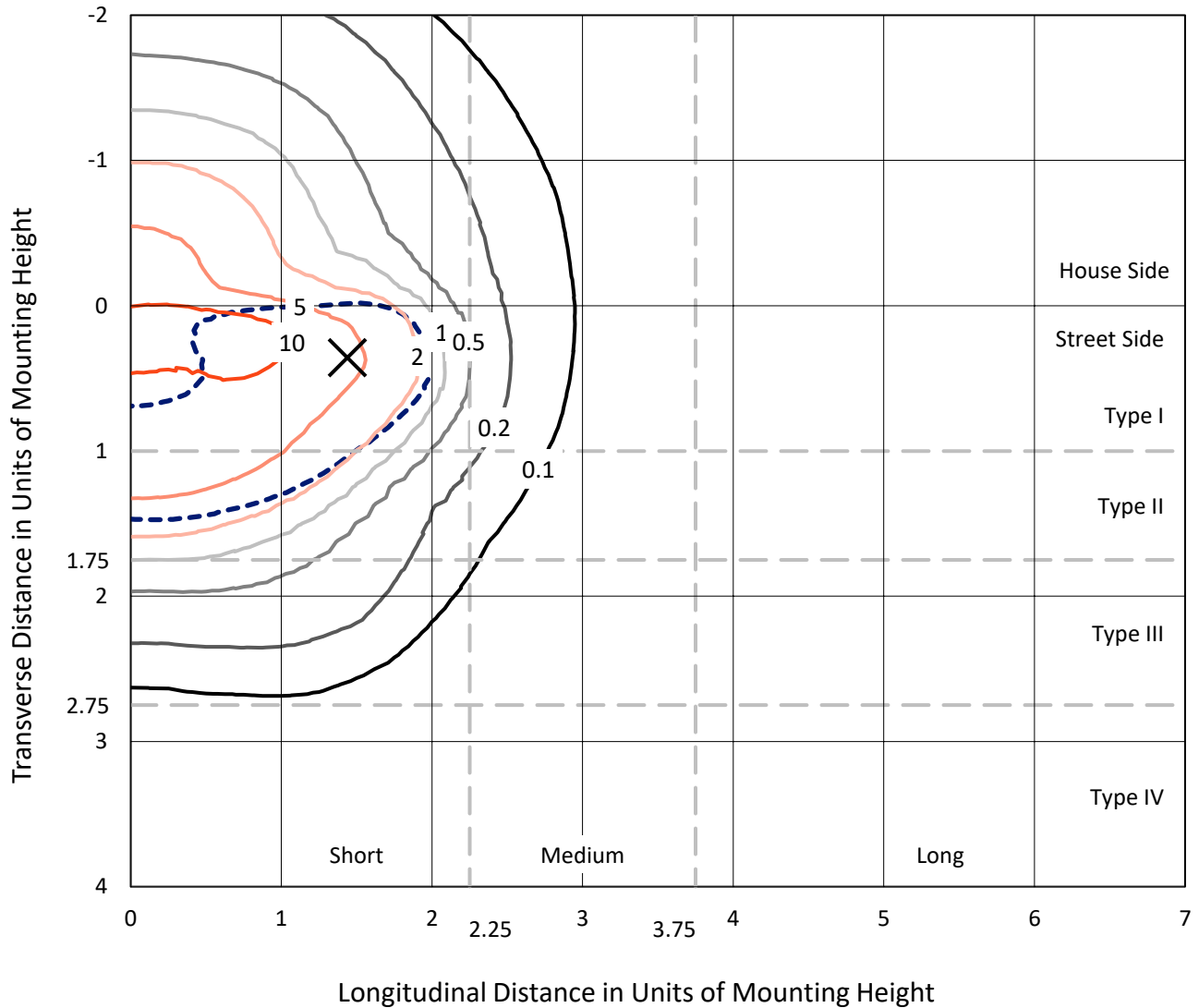
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

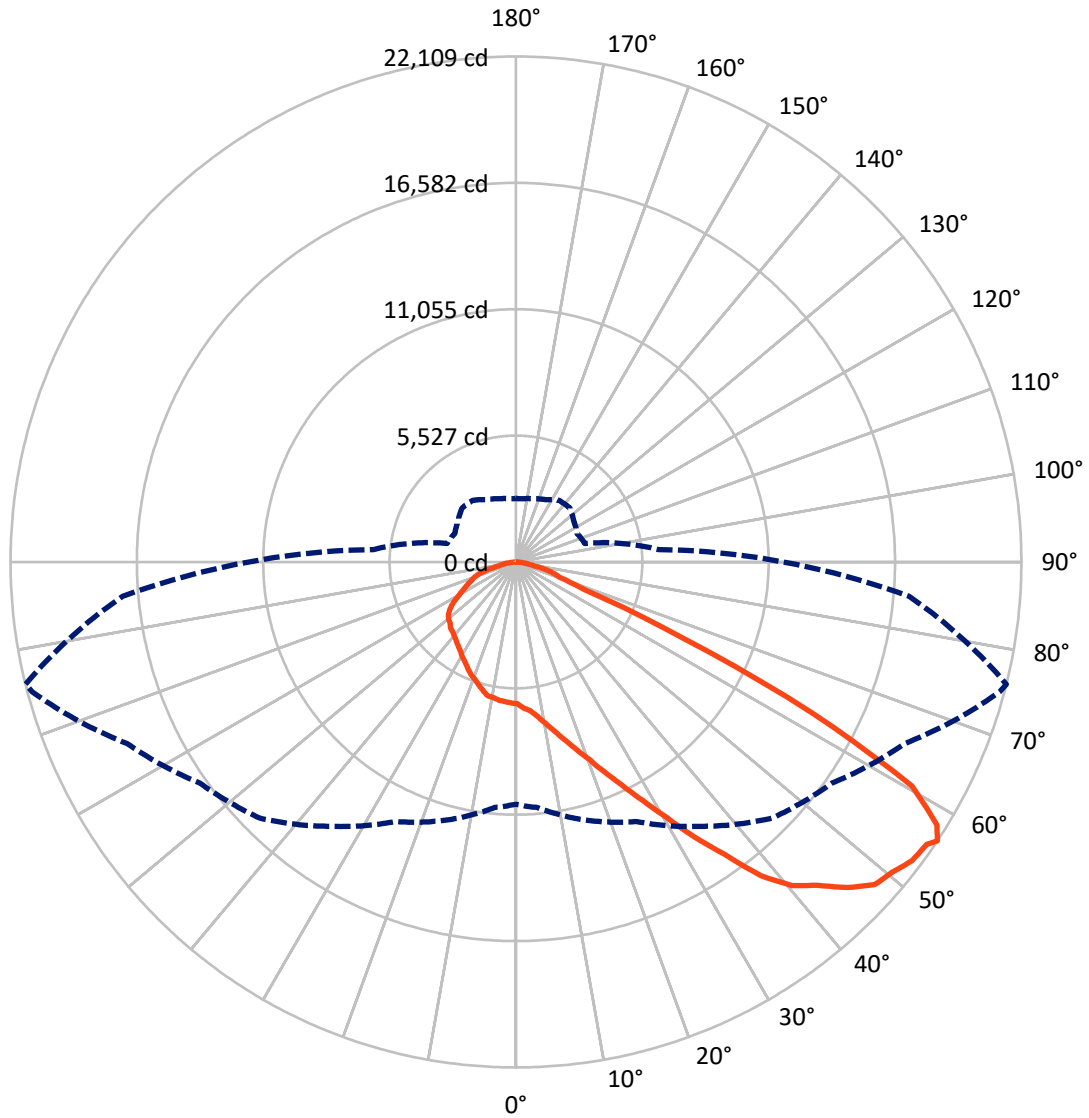
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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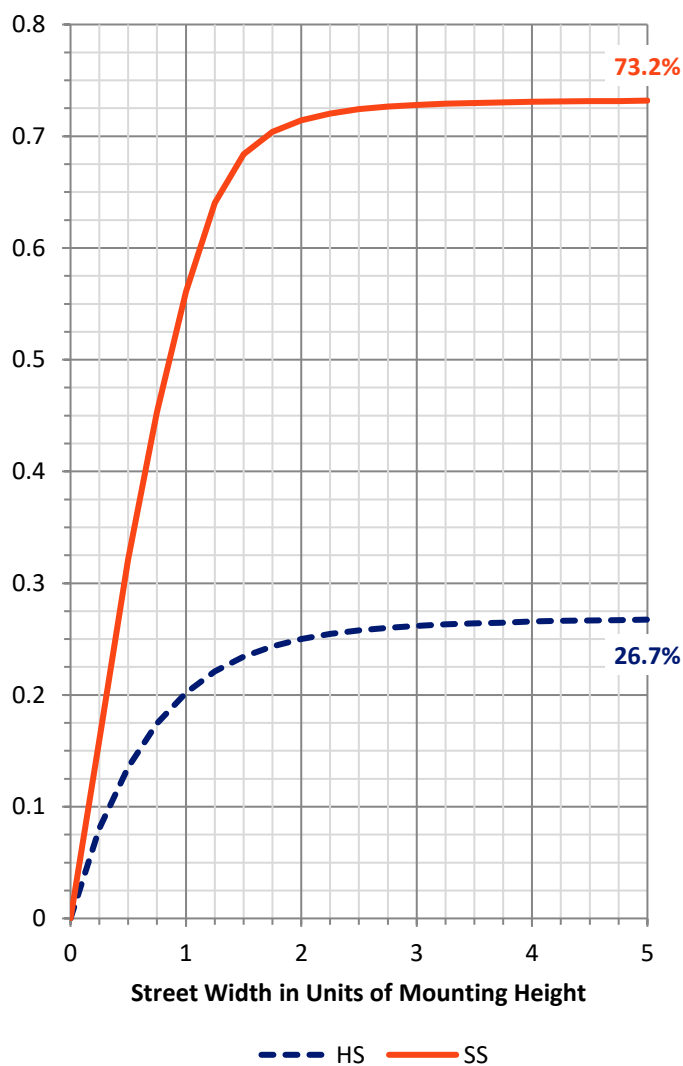
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8709.8	0.0	8709.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	23684.2	0.0	23684.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	32394.0	0.0	32394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.7	1.9
10°-20°	1930.9	6.0
20°-30°	3376.9	10.4
30°-40°	5287.2	16.3
40°-50°	7691.4	23.7
50°-60°	8453.3	26.1
60°-70°	3773.2	11.6
70°-80°	1089.8	3.4
80°-90°	176.8	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°	32394.0	100.0
0°-180°	32394.0	100.0

Coefficient of Utilization



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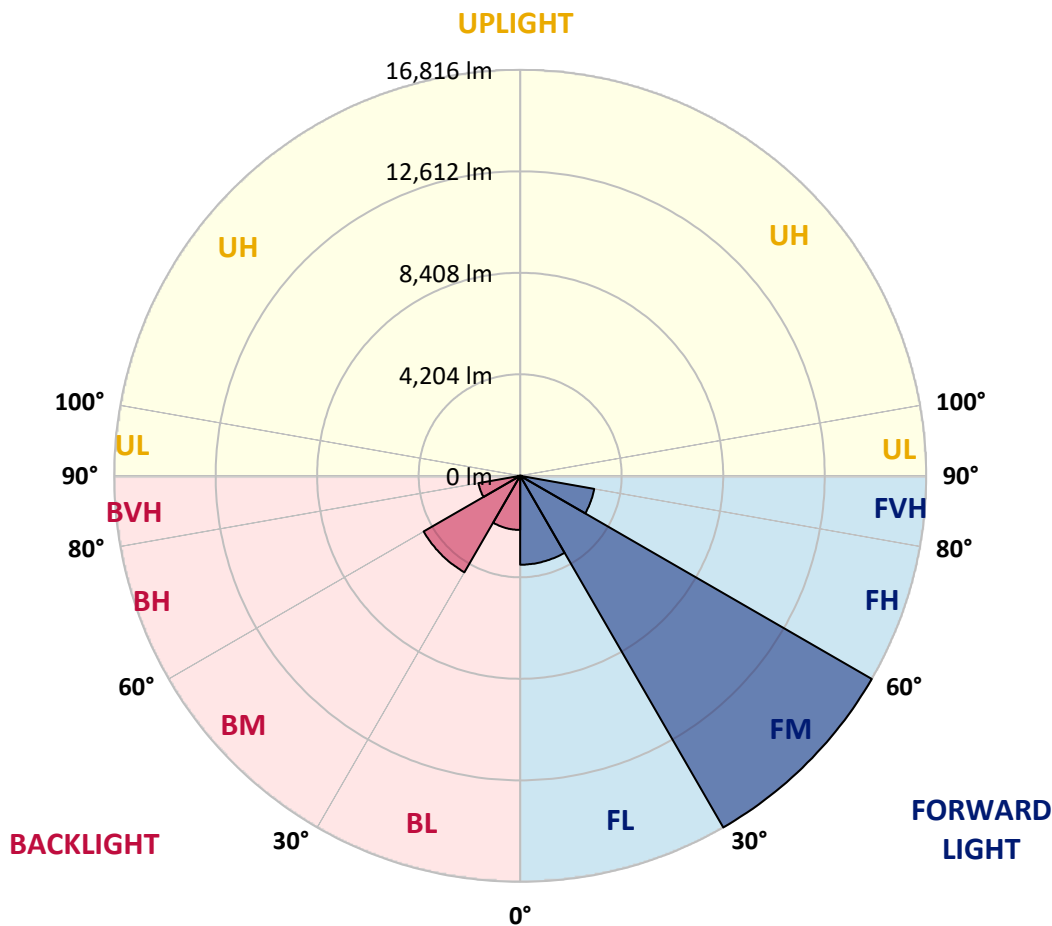
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3681.2	11.4			
FM (30°-60°)	16816.3	51.9			
FH (60°-80°)	3110.6	9.6			G2/5000
FVH (80°-90°)	76.1	0.2			G1/100
BL (0°-30°)	2241.2	6.9	B3/2500		
BM (30°-60°)	4615.5	14.2	B3/5000		
BH (60°-80°)	1752.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	100.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2
2.5°	6828.1	6718.9	6710.5	6681.1	6697.9	6622.3	6542.5	6437.5	6328.4	6395.5	6236.0
5°	7306.8	7159.8	7218.6	7117.8	7130.4	7029.6	6865.9	6744.1	6609.7	6529.9	6416.5
7.5°	7474.8	7487.4	7529.4	7512.6	7428.6	7428.6	7319.4	7105.2	6870.1	6823.9	6634.9
10°	7701.5	7705.7	7659.5	7672.1	7789.7	7735.1	7638.5	7546.2	7243.8	7189.2	6853.3
12.5°	7781.3	7705.7	7781.3	7848.5	7987.1	8062.7	8041.7	7974.5	7651.1	7613.3	7122.0
15°	7793.9	7747.7	7810.7	7961.9	8083.7	8402.8	8562.4	8516.2	8087.9	8092.1	7424.4
17.5°	7735.1	7798.1	7823.3	7953.5	8234.8	8533.0	8994.9	9057.9	8705.2	8650.6	7806.5
20°	7814.9	7768.7	7802.3	7919.9	8293.6	8759.8	9364.5	9780.2	9284.7	9246.9	8201.2
22.5°	8121.5	8058.5	8050.1	8125.7	8394.4	8877.3	9755.0	10502.5	9990.1	10011.1	8692.6
25°	8360.8	8394.4	8365.0	8360.8	8528.8	9053.7	10271.5	11363.3	10947.6	10825.8	9272.1
27.5°	8772.4	8852.1	8793.3	8873.1	8835.3	9318.3	10641.0	12316.6	11980.6	11816.8	9797.0
30°	9343.5	9385.4	9330.9	9330.9	9217.5	9687.8	10977.0	13311.8	13173.2	12950.7	10414.3
32.5°	10095.1	10158.1	10048.9	9986.0	9969.2	10237.9	11581.7	14294.4	14529.6	14340.6	11233.1
35°	11090.4	11052.6	10922.4	10863.6	10636.8	11082.0	12480.3	15424.1	16041.3	15705.4	12224.2
37.5°	11968.0	11909.2	11900.8	11573.3	11627.9	11993.2	13244.6	16280.7	17506.9	17410.3	13269.8
40°	12786.9	12841.5	12929.7	12744.9	12660.9	13064.0	14134.9	16935.8	18644.9	18607.1	14076.1
42.5°	13664.5	13614.2	13769.5	13614.2	13488.2	14059.3	15100.7	17389.3	19644.4	19333.6	14920.1
45°	14936.9	14777.4	14831.9	14844.5	14752.2	14962.1	15499.6	17716.9	20345.6	20312.0	15537.4
47.5°	15999.4	16003.6	15911.2	15839.8	15558.4	15768.4	15944.8	17922.6	21151.9	21097.3	15776.8
50°	16394.1	16339.5	16608.3	16763.6	16780.4	16352.1	16293.3	18036.0	21576.0	21336.7	16016.2
52.5°	14974.7	15025.1	15449.2	16373.1	16906.4	16952.6	16700.6	18271.2	21748.2	21697.8	16209.3
55°	12052.0	12295.6	12992.7	14059.3	15323.3	16713.2	17141.6	18514.7	21840.6	21798.6	17066.0
56°	10594.8	10783.8	11690.9	12526.5	14113.9	15844.0	16864.4	18775.1	21912.0	22109.3	17267.5
57.5°	8528.8	8747.2	9398.0	10347.1	12220.0	14189.5	16100.1	18456.0	21634.8	21710.4	17414.5
60°	5333.1	5354.1	6135.2	6760.9	8079.5	10002.7	12287.2	16058.1	20022.3	19913.1	15642.4
62.5°	3498.0	3502.2	4211.9	4724.2	5324.7	5765.6	7231.2	10649.4	14773.2	14580.0	11136.6
65°	2456.6	2511.2	3061.3	3745.8	3989.3	3758.4	3712.2	5614.5	8251.6	7974.5	5984.0
67.5°	1797.3	1801.5	2288.6	3023.5	3376.2	2859.7	2322.2	2742.1	3267.1	3258.7	2771.5
70°	1188.4	1238.8	1612.5	2259.2	2662.4	2297.0	1898.1	1961.1	2078.7	2078.7	2061.9
72.5°	692.9	739.1	986.8	1432.0	1495.0	1436.2	1503.4	1679.7	1755.3	1751.1	1730.1
75°	394.7	415.7	470.3	596.3	743.3	877.7	1104.4	1272.4	1348.0	1394.2	1339.6
77.5°	231.0	243.6	277.2	340.1	386.3	474.5	600.5	718.1	818.9	806.3	814.7
80°	121.8	121.8	155.4	201.6	268.8	335.9	398.9	466.1	520.7	533.3	545.9
82.5°	71.4	75.6	100.8	147.0	193.2	239.4	306.5	352.7	403.1	407.3	415.7
85°	37.8	42.0	63.0	96.6	130.2	147.0	151.2	142.8	155.4	147.0	168.0
87.5°	12.6	12.6	21.0	16.8	16.8	21.0	25.2	25.2	33.6	33.6	33.6
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°	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2	6198.2
2.5°	6231.8	6231.8	6160.4	6026.0	6005.0	5950.4	5900.0	5895.8	5858.0	5824.4	5807.6
5°	6349.4	6219.2	6114.2	5992.4	5849.6	5782.4	5706.9	5622.9	5589.3	5622.9	5618.7
7.5°	6483.7	6374.5	6059.6	5832.8	5669.1	5601.9	5517.9	5429.7	5438.1	5438.1	5379.3
10°	6613.9	6466.9	5963.0	5673.3	5433.9	5383.5	5337.3	5370.9	5412.9	5421.3	5383.5
12.5°	6832.3	6500.5	5916.8	5513.7	5362.5	5253.3	5282.7	5375.1	5463.3	5438.1	5467.5
15°	6996.0	6529.9	5706.9	5349.9	5160.9	5211.3	5316.3	5379.3	5526.3	5509.5	5538.9
17.5°	7155.6	6546.7	5501.1	5131.6	5051.8	5190.3	5270.1	5450.7	5496.9	5597.7	5635.5
20°	7483.2	6580.3	5291.1	4997.2	4972.0	5131.6	5270.1	5354.1	5454.9	5543.1	5543.1
22.5°	7651.1	6563.5	5152.5	4820.8	4900.6	5001.4	5127.4	5270.1	5270.1	5354.1	5358.3
25°	7861.1	6496.3	4934.2	4736.8	4795.6	4892.2	5035.0	4984.6	5039.2	5039.2	5106.4
27.5°	8100.5	6353.6	4745.2	4585.6	4703.2	4808.2	4829.2	4795.6	4732.6	4724.2	4699.0
30°	8293.6	6177.2	4606.6	4535.3	4631.8	4690.6	4623.4	4552.0	4442.9	4434.5	4375.7
32.5°	8558.2	5958.8	4434.5	4409.3	4518.5	4522.7	4501.7	4392.5	4232.9	4165.7	4098.5
35°	9003.3	5832.8	4304.3	4342.1	4375.7	4363.1	4325.3	4207.7	4048.1	4018.7	3993.5
37.5°	9330.9	5740.5	4169.9	4216.1	4245.5	4262.3	4148.9	4018.7	4022.9	3964.1	3947.3
40°	9700.4	5681.7	4060.7	4081.7	4085.9	4140.5	4001.9	3938.9	3968.3	3930.6	3955.7
42.5°	10174.9	5698.5	3947.3	3930.6	4010.3	3989.3	3922.2	3838.2	3855.0	3741.6	3758.4
45°	10426.9	5811.8	3880.2	3804.6	3892.8	3888.6	3800.4	3720.6	3619.8	3401.4	3409.8
47.5°	10594.8	5841.2	3720.6	3670.2	3762.6	3817.2	3716.4	3531.6	3388.8	3233.5	3195.7
50°	10767.0	5895.8	3645.0	3540.0	3577.8	3708.0	3582.0	3405.6	3267.1	3128.5	3149.5
52.5°	10918.2	6000.8	3498.0	3342.6	3409.8	3552.6	3485.4	3271.3	3120.1	3006.7	2973.1
55°	11590.1	6236.0	3250.3	3048.7	3208.3	3388.8	3351.0	3090.7	2926.9	2868.1	2859.7
56°	11695.1	6244.4	3120.1	2947.9	3094.9	3334.2	3288.1	3010.9	2863.9	2771.5	2775.7
57.5°	11711.9	6143.6	2935.3	2855.5	2981.5	3254.5	3195.7	2947.9	2746.3	2662.4	2637.2
60°	10305.1	4795.6	2704.4	2654.0	2800.9	3010.9	2989.9	2775.7	2549.0	2452.4	2498.6
62.5°	7025.4	3514.8	2523.8	2515.4	2591.0	2796.7	2742.1	2549.0	2360.0	2297.0	2267.6
65°	4090.1	2666.6	2347.4	2313.8	2376.8	2486.0	2523.8	2322.2	2124.8	2082.9	2070.3
67.5°	2414.6	2204.6	2120.6	2066.1	2045.1	2112.3	2141.6	2024.1	1826.7	1767.9	1818.3
70°	2019.9	1961.1	1965.3	1872.9	1822.5	1776.3	1751.1	1646.1	1482.4	1406.8	1385.8
72.5°	1742.7	1717.5	1700.7	1616.7	1570.5	1465.6	1356.4	1251.4	1129.6	1066.6	1070.8
75°	1331.2	1322.8	1331.2	1289.2	1209.4	1125.4	1024.6	890.3	797.9	718.1	734.9
77.5°	793.7	818.9	831.5	814.7	781.1	705.5	642.5	554.3	466.1	403.1	394.7
80°	545.9	566.9	587.9	566.9	533.3	478.7	411.5	344.3	281.4	247.8	239.4
82.5°	415.7	436.7	449.3	428.3	386.3	327.5	281.4	235.2	184.8	151.2	142.8
85°	151.2	172.2	168.0	201.6	218.4	210.0	180.6	138.6	105.0	75.6	71.4
87.5°	42.0	37.8	42.0	42.0	42.0	37.8	33.6	33.6	33.6	21.0	16.8
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)