

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: P534066

Luminaire Tested: **GALN-SA9C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52173 lumens
Efficiency: N/A
Efficacy: 108.5 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

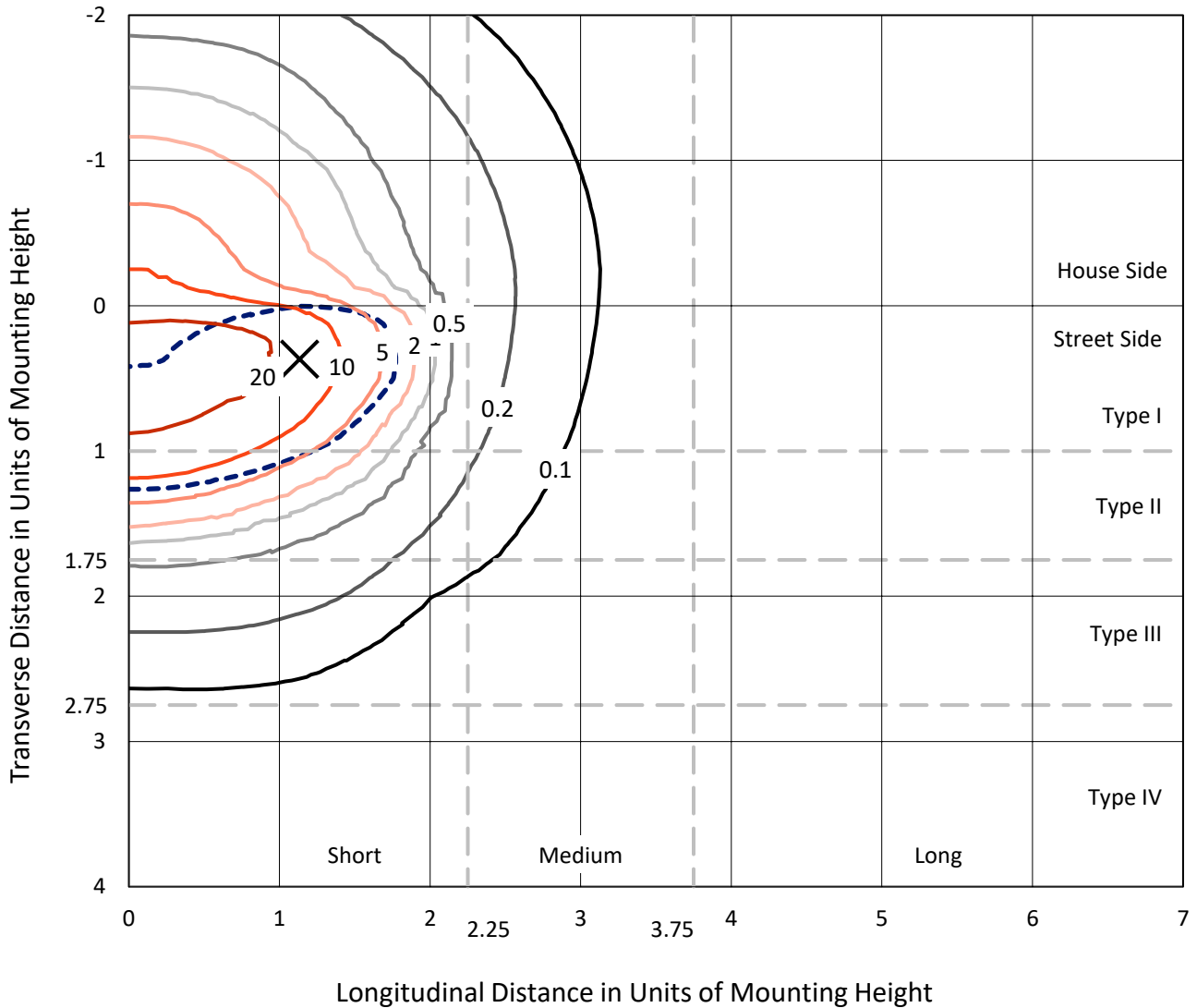
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

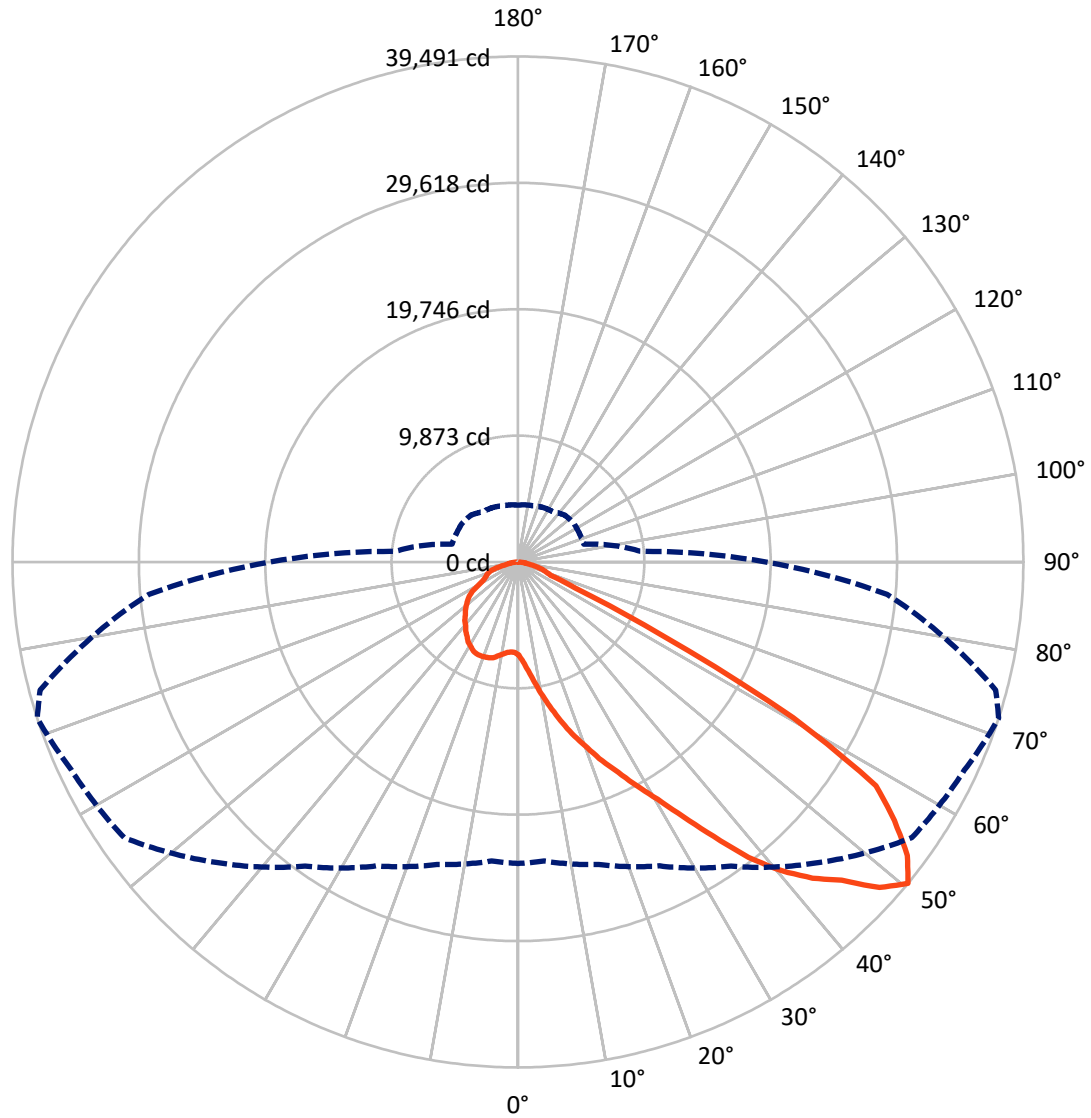
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9C-735-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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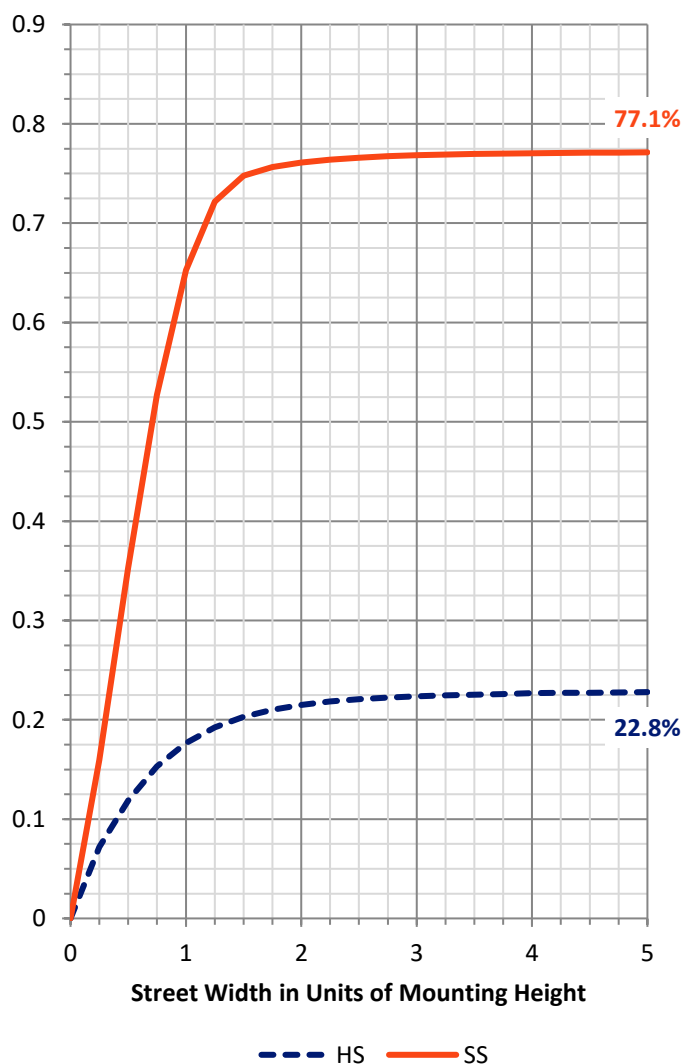
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11953.1	0.0	11953.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	40219.9	0.0	40219.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	52173.0	0.0	52173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.3	1.6
10°-20°	3193.7	6.1
20°-30°	6192.3	11.9
30°-40°	10258.5	19.7
40°-50°	14353.9	27.5
50°-60°	12109.4	23.2
60°-70°	3690.9	7.1
70°-80°	1294.9	2.5
80°-90°	225.1	0.4
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°	52173.0	100.0
0°-180°	52173.0	100.0

Coefficient of Utilization

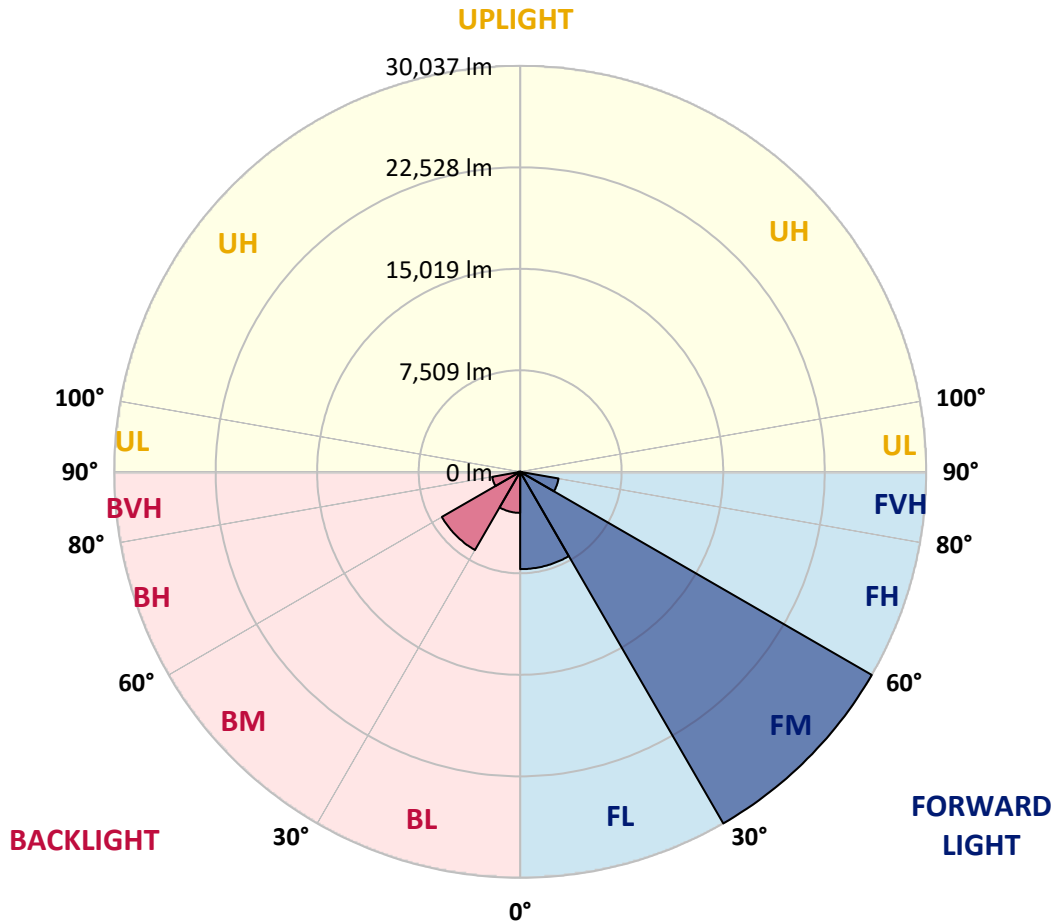


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7201.8	13.8			
FM (30°-60°)	30037.4	57.6			
FH (60°-80°)	2879.9	5.5			G2/5000
FVH (80°-90°)	100.8	0.2			G2/225
BL (0°-30°)	3038.5	5.8	B4/5000		
BM (30°-60°)	6684.4	12.8	B4/8500		
BH (60°-80°)	2105.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	124.3	0.2			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°	72°	75°	85°
0°	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9
2.5°	9341.7	9283.6	9109.3	9051.2	8844.6	8470.2	8341.1	7960.2	7798.8	7650.3	7476.0
5°	11814.4	11543.2	11523.8	11194.6	10716.9	10439.2	9612.9	9057.7	8547.7	8289.4	7811.7
7.5°	13389.6	13396.1	13396.1	13124.9	12744.0	12040.3	11297.9	10297.2	9529.0	9148.1	8334.6
10°	14887.4	14758.3	14687.3	14661.4	14403.2	13718.9	12924.8	11685.2	10632.9	10187.5	8728.4
12.5°	15946.2	15836.4	15997.8	15913.9	15726.7	15281.2	14532.3	13118.5	11801.4	11201.0	9361.1
15°	16449.7	16527.2	16656.3	16888.7	16804.8	16636.9	15810.6	14590.4	13060.4	12382.5	9922.8
17.5°	17224.4	17011.4	17166.3	17456.8	17689.3	17611.8	17140.5	15655.6	14306.4	13473.5	10678.1
20°	17766.7	17644.1	17721.5	18057.2	18231.6	18670.6	18425.2	17050.1	15500.7	14622.7	11569.0
22.5°	19316.2	19135.4	18883.6	18935.3	18999.8	19309.7	19367.8	18580.2	16888.7	15959.1	12414.8
25°	21227.1	21059.3	20762.3	20458.9	20271.6	20213.5	20413.7	19781.0	18218.6	17256.7	13325.0
27.5°	23331.7	23047.7	22860.5	22234.2	21730.7	21653.2	21556.4	21214.2	19793.9	18754.5	14351.5
30°	25378.3	25152.3	24900.5	23899.9	23376.9	23293.0	22815.3	22912.1	21504.7	20349.1	15513.6
32.5°	26927.7	26947.1	26372.5	25617.1	25126.5	24681.0	24506.7	24784.3	23699.7	22770.1	16811.3
35°	28180.2	28238.3	27689.5	27005.2	26475.8	26785.7	26708.2	26837.3	26320.8	25184.6	18321.9
37.5°	29400.3	29109.8	28522.3	28193.1	27915.5	28425.5	29084.0	29193.7	29290.6	27954.2	20078.0
40°	29600.5	29626.3	29284.1	29516.5	29167.9	29936.2	31466.2	31324.2	31718.0	30549.5	21982.5
42.5°	29316.4	29374.5	29510.1	29839.3	30678.6	31601.8	33874.3	33293.3	33771.0	32731.6	23835.3
45°	28851.6	28612.7	28780.6	30033.0	31485.6	33538.6	36075.8	35623.8	35468.9	34597.4	26043.2
47.5°	26630.7	26876.1	27399.0	28942.0	31124.1	33874.3	37638.1	37534.8	37999.6	37386.3	28051.0
50°	23551.2	23454.4	24461.5	26198.2	29013.0	33215.8	37554.2	38490.3	39491.0	38638.8	28948.4
52.5°	17637.6	18154.1	19019.2	21175.5	25191.1	29626.3	35720.7	37283.0	38096.5	37915.7	28225.3
55°	11149.4	11304.3	11827.3	14390.3	18005.6	23777.2	30620.5	34242.3	35694.9	36372.7	27560.4
57.5°	5416.5	5126.0	5765.1	7824.6	10400.5	15991.4	23615.8	29826.4	32983.4	34210.0	26114.3
60°	2827.7	2937.5	3189.2	3925.2	5377.8	8302.3	14719.5	19877.8	24700.4	26585.5	19793.9
62.5°	2343.5	2382.2	2550.1	2918.1	3576.6	4777.4	7514.7	9690.4	12595.5	14293.4	11259.2
65°	1988.4	2007.8	2188.6	2433.9	2853.5	3363.5	3867.1	4047.9	4900.1	5029.2	4002.7
67.5°	1659.2	1678.5	1872.2	2104.6	2375.8	2511.4	2640.5	2627.6	2724.4	2685.7	2679.2
70°	1278.3	1297.6	1497.8	1743.1	1878.7	1801.2	2201.5	2291.9	2330.6	2362.9	2414.5
72.5°	923.2	961.9	1116.9	1291.2	1220.2	1400.9	1814.1	1949.7	2001.3	2020.7	2085.3
75°	671.4	684.3	723.1	671.4	774.7	974.8	1278.3	1446.1	1510.7	1530.1	1626.9
77.5°	297.0	303.4	309.9	387.4	497.1	606.9	761.8	897.4	987.8	1013.6	1039.4
80°	154.9	161.4	200.1	264.7	355.1	445.5	555.2	632.7	690.8	697.2	723.1
82.5°	96.8	103.3	142.0	187.2	251.8	329.3	406.7	471.3	516.5	522.9	529.4
85°	45.2	58.1	83.9	116.2	167.9	213.0	219.5	187.2	200.1	206.6	193.7
87.5°	12.9	19.4	25.8	19.4	25.8	25.8	32.3	38.7	38.7	38.7	45.2
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°	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9	7262.9
2.5°	7379.1	7321.0	7095.1	7011.1	6791.6	6830.4	6714.2	6707.7	6681.9	6675.4	6669.0
5°	7559.9	7379.1	7108.0	6901.4	6778.7	6765.8	6681.9	6681.9	6707.7	6727.1	6681.9
7.5°	7856.9	7650.3	7191.9	6998.2	6888.5	6869.1	6811.0	6765.8	6823.9	6804.6	6752.9
10°	8199.0	7837.5	7353.3	7185.5	7004.7	6959.5	6959.5	6978.9	6882.0	6914.3	6862.7
12.5°	8579.9	8095.7	7559.9	7366.2	7153.2	7127.4	7114.4	6972.4	7024.1	6998.2	6869.1
15°	9064.1	8392.7	7824.6	7495.3	7314.6	7198.4	7030.5	7004.7	6972.4	6907.9	6849.7
17.5°	9587.1	8715.5	7947.3	7534.1	7262.9	7179.0	7049.9	6914.3	6817.5	6830.4	6785.2
20°	10032.5	9012.5	7992.4	7572.8	7224.2	7062.8	6862.7	6778.7	6675.4	6669.0	6662.5
22.5°	10561.9	9412.8	8057.0	7469.5	7108.0	6940.1	6804.6	6656.1	6585.1	6494.7	6539.9
25°	11194.6	9567.7	8069.9	7411.4	7024.1	6727.1	6656.1	6494.7	6468.8	6339.7	6365.6
27.5°	11653.0	9651.6	7966.6	7230.6	6830.4	6604.4	6475.3	6359.1	6313.9	6217.1	6191.2
30°	12266.3	9780.7	7747.1	7004.7	6636.7	6384.9	6307.4	6281.6	6152.5	6049.2	6036.3
32.5°	12963.5	9864.7	7605.1	6772.3	6436.6	6242.9	6281.6	6159.0	5997.6	5907.2	5881.4
35°	13518.7	9896.9	7250.0	6507.6	6301.0	6178.3	6133.1	6107.3	5874.9	5791.0	5726.4
37.5°	14364.5	9825.9	6953.0	6320.4	6152.5	6107.3	6068.6	5894.3	5629.6	5506.9	5416.5
40°	15352.2	9806.6	6572.1	6055.7	6010.5	6062.1	5945.9	5674.8	5306.8	5171.2	5106.6
42.5°	16301.2	9942.1	6333.3	5913.6	5855.5	5874.9	5713.5	5306.8	5126.0	5048.5	4945.2
45°	17889.4	10226.2	5939.5	5694.1	5668.3	5655.4	5461.7	5035.6	4932.3	4835.5	4816.1
47.5°	19322.6	10039.0	5687.7	5468.2	5494.0	5423.0	5009.8	4874.2	4758.0	4661.2	4628.9
50°	19406.5	9593.5	5332.6	5293.9	5300.3	5177.7	4783.8	4693.5	4545.0	4480.4	4435.2
52.5°	18967.5	8864.0	5003.3	5016.3	5035.6	4835.5	4506.2	4441.7	4319.0	4228.6	4202.8
55°	17734.5	7727.8	4680.6	4732.2	4783.8	4402.9	4299.7	4138.3	4041.4	3912.3	3918.8
57.5°	15623.4	6223.5	4228.6	4312.6	4422.3	4002.7	3925.2	3725.1	3583.0	3479.7	3466.8
60°	10471.5	4428.8	3550.8	3583.0	3828.4	3660.5	3654.1	3453.9	3260.2	3169.9	3118.2
62.5°	6178.3	3382.9	3066.6	3034.3	3027.8	3124.7	3286.1	3215.1	2963.3	2789.0	2840.6
65°	3234.4	2924.5	2853.5	2743.8	2679.2	2653.4	2776.1	2808.3	2640.5	2453.3	2440.3
67.5°	2717.9	2717.9	2659.8	2621.1	2530.7	2421.0	2343.5	2240.2	2214.4	2162.7	2098.2
70°	2472.6	2537.2	2517.8	2427.4	2350.0	2227.3	2027.2	1859.3	1697.9	1639.8	1678.5
72.5°	2156.3	2220.8	2220.8	2175.6	2072.4	1885.1	1691.5	1497.8	1362.2	1258.9	1246.0
75°	1659.2	1691.5	1768.9	1717.3	1581.7	1465.5	1265.4	1065.2	936.1	839.3	819.9
77.5°	1058.8	1110.4	1110.4	1104.0	1007.1	897.4	768.3	626.2	529.4	458.4	439.0
80°	703.7	736.0	761.8	736.0	671.4	587.5	490.7	393.8	322.8	264.7	251.8
82.5°	516.5	555.2	574.6	548.8	484.2	419.6	348.6	277.6	206.6	161.4	148.5
85°	200.1	206.6	232.4	277.6	271.1	264.7	213.0	154.9	116.2	83.9	77.5
87.5°	51.6	45.2	51.6	51.6	45.2	38.7	38.7	38.7	38.7	19.4	25.8
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)