

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: P534065

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39267 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

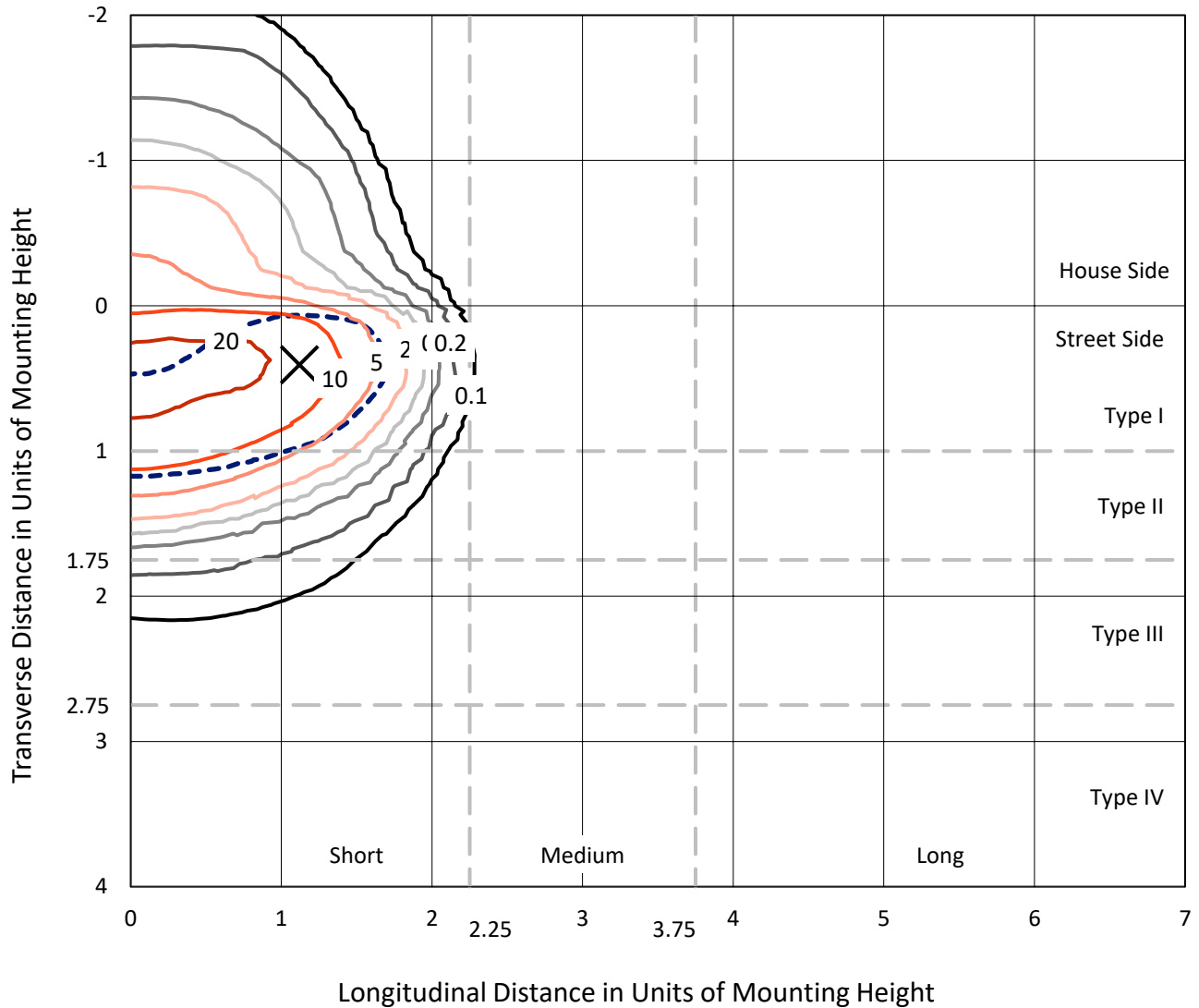
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

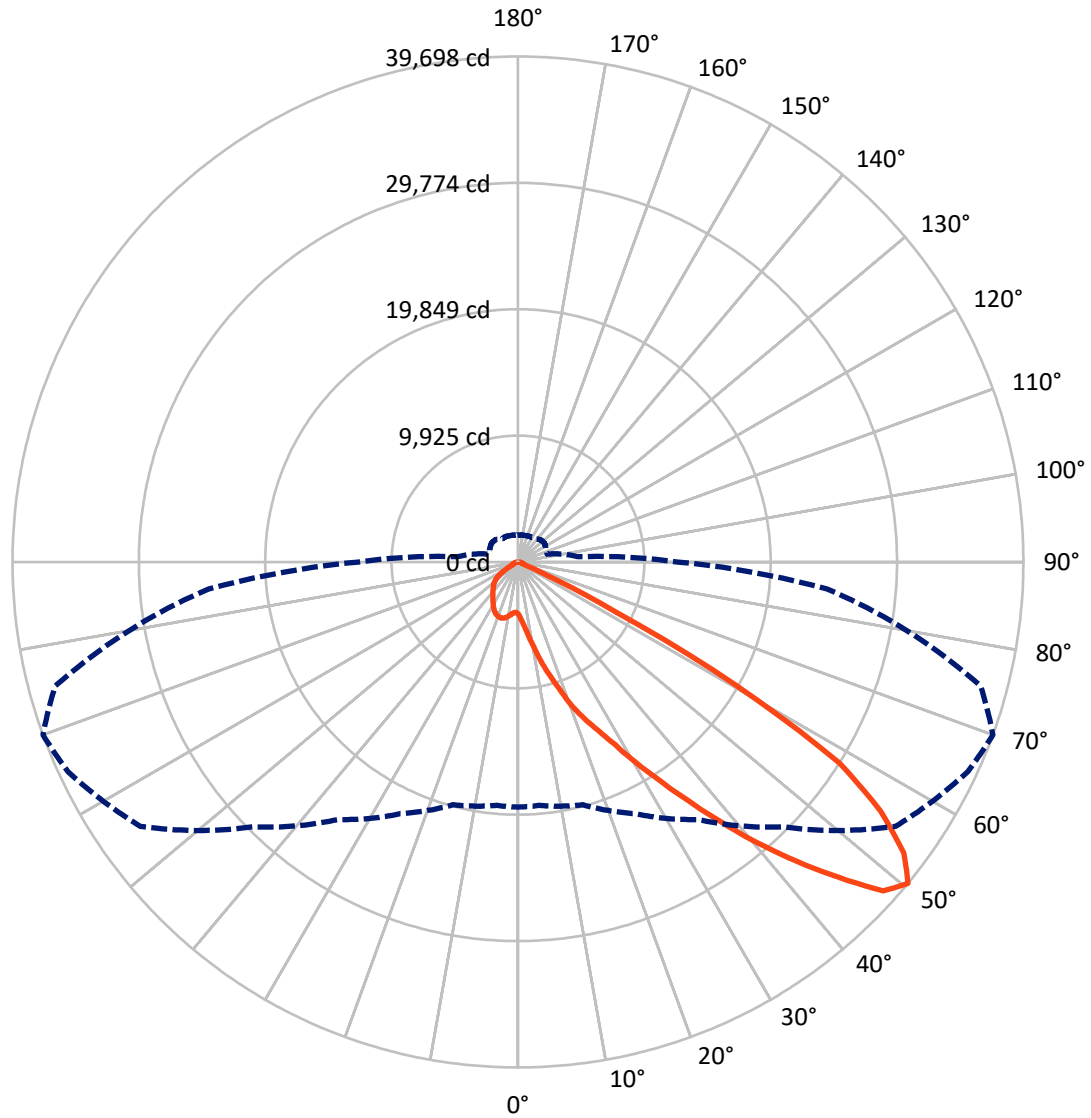
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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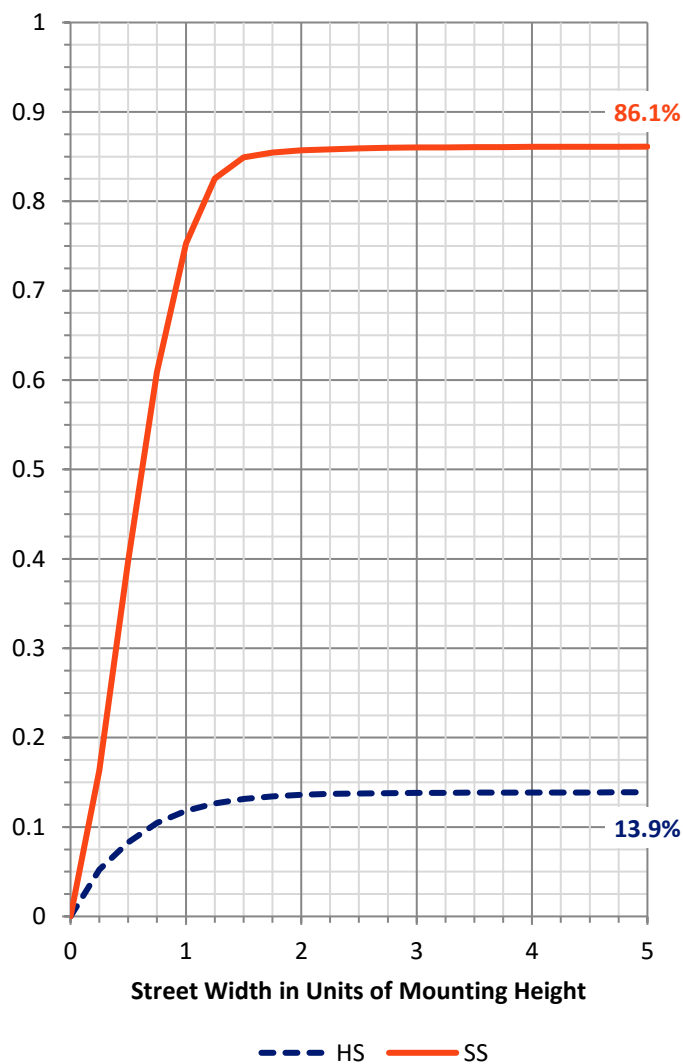
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5483.9	0.0	5483.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	33783.1	0.0	33783.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	39267.0	0.0	39267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.9	1.3
10°-20°	2287.8	5.8
20°-30°	4799.5	12.2
30°-40°	8272.6	21.1
40°-50°	12090.4	30.8
50°-60°	9416.4	24.0
60°-70°	1595.4	4.1
70°-80°	219.2	0.6
80°-90°	56.8	0.1
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°	39267.0	100.0
0°-180°	39267.0	100.0

Coefficient of Utilization



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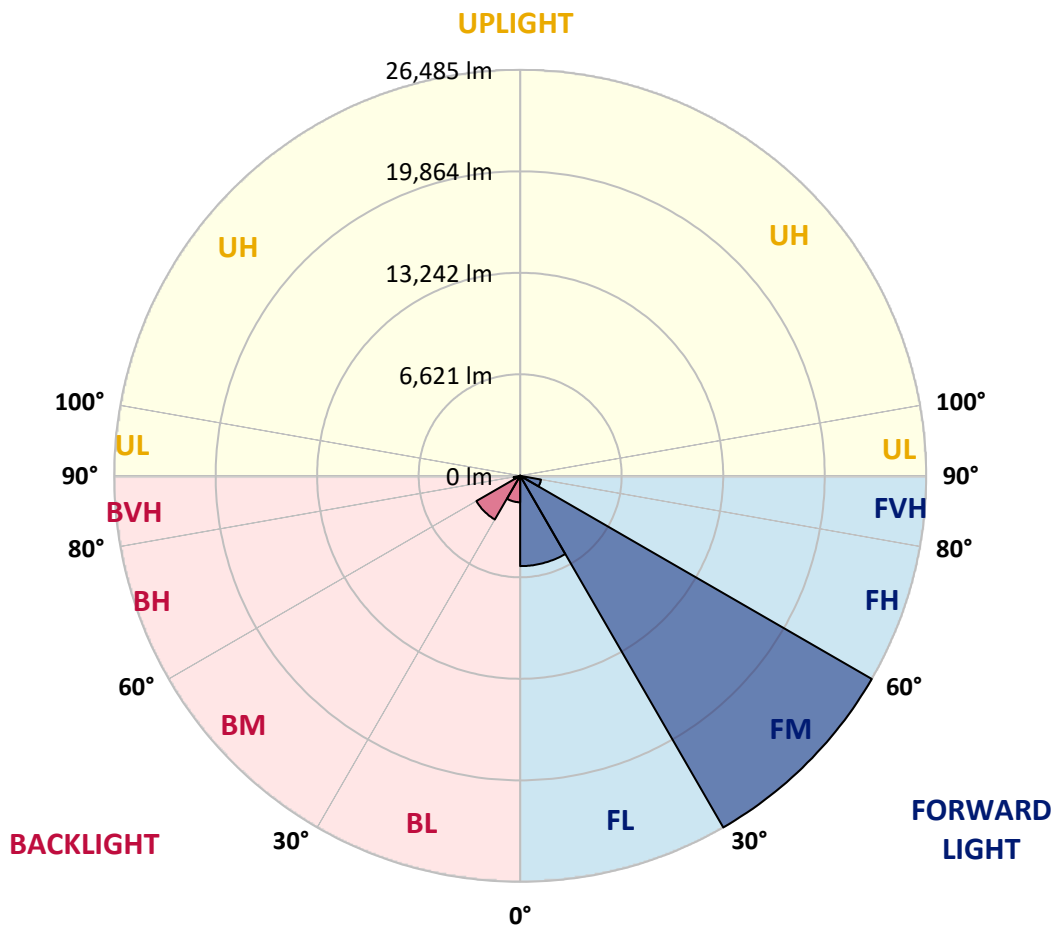
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5890.5	15.0			
FM (30°-60°)	26484.9	67.4			
FH (60°-80°)	1381.4	3.5			G1/1800
FVH (80°-90°)	26.2	0.1			G1/100
BL (0°-30°)	1725.7	4.4	B3/2500		
BM (30°-60°)	3294.5	8.4	B3/5000		
BH (60°-80°)	433.2	1.1	B1/500		G1/500
BVH (80°-90°)	30.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3
2.5°	5326.2	5287.5	5203.5	5048.6	4984.0	4829.1	4738.7	4564.4	4454.6	4332.0	4196.4
5°	7501.9	7301.8	7179.1	7004.8	6494.7	6178.4	5655.5	5210.0	5003.4	4777.4	4467.6
7.5°	9748.6	9619.5	9451.6	9077.2	8728.5	8070.0	7172.6	6191.3	5771.7	5384.3	4771.0
10°	11607.9	11246.4	11227.0	10949.4	10568.5	9780.9	8702.7	7482.5	6733.6	6165.5	5203.5
12.5°	12905.6	12576.3	12724.8	12692.5	12337.4	11614.4	10368.4	8754.4	7973.2	7088.7	5649.0
15°	14087.0	13951.4	13906.3	13867.5	13725.5	13189.6	12072.7	10303.8	9174.0	8108.8	6152.6
17.5°	15242.6	14894.0	15061.9	15094.2	15081.2	14597.0	13551.2	11775.8	10445.8	9186.9	6682.0
20°	16269.2	16301.4	16075.5	16030.3	15991.5	15972.2	14952.1	13234.8	12008.2	10316.7	7372.8
22.5°	17586.2	17360.2	17560.4	17431.2	17179.4	17024.5	16243.3	14526.0	13363.9	11678.9	8076.5
25°	19142.1	19322.8	18851.6	18799.9	18522.3	17986.5	17282.7	15972.2	14668.1	12944.3	8838.3
27.5°	21059.5	20743.2	20620.5	20336.4	19832.9	19606.9	18780.5	17463.5	16243.3	14274.2	9574.3
30°	22705.8	22621.9	22008.5	21672.8	21233.8	21227.4	20071.7	19484.2	18296.3	16359.5	10587.9
32.5°	24048.6	23680.7	23454.7	23222.3	22867.2	22964.0	21989.2	21679.3	20484.9	18296.3	11782.2
35°	24946.0	24681.3	24545.8	24190.7	24087.4	24519.9	24113.2	23984.1	23002.8	21020.8	13183.2
37.5°	25230.1	25314.0	25288.2	24842.7	25062.2	26230.8	26753.7	26418.0	25901.5	23893.7	14700.3
40°	25481.9	25540.0	25410.9	25933.8	26560.0	27890.0	29781.6	29226.4	29032.7	26805.4	16811.5
42.5°	25623.9	25578.7	25578.7	26482.6	27431.6	30104.4	32706.2	32338.2	32189.7	29904.3	19251.8
45°	25010.6	24571.6	25042.9	26269.5	28180.5	31195.5	35043.2	35553.3	35340.2	33590.6	22105.4
47.5°	22718.7	22989.9	23254.6	24894.4	27270.2	30859.7	36476.5	38213.1	38607.0	36689.5	23977.6
50°	19251.8	19193.7	19742.5	21808.4	24694.2	29413.6	36198.9	38981.4	39698.0	37619.2	24371.4
52.5°	14003.1	14429.2	15023.1	17076.2	20497.8	25669.1	32615.8	36999.4	37954.9	36476.5	24113.2
55°	8153.9	7682.7	9019.0	10755.7	13983.7	19361.6	27573.6	32796.5	34565.5	34397.6	22809.1
57.5°	3266.7	3163.4	3621.8	4880.7	7295.3	12001.7	20052.4	26947.4	29781.6	31505.3	20045.9
60°	1433.2	1401.0	1646.3	1988.5	2982.7	5532.8	10968.8	16759.8	19716.7	22015.0	13796.5
62.5°	1033.0	1020.0	1142.7	1265.4	1575.3	2408.1	4609.6	6753.0	8418.6	10168.2	6178.4
65°	832.8	865.1	949.0	1013.6	1162.1	1336.4	1626.9	1878.7	2304.8	2388.7	1362.2
67.5°	677.9	703.7	781.2	852.2	878.0	723.1	748.9	658.5	658.5	587.5	471.3
70°	497.1	503.6	594.0	677.9	542.3	290.5	510.0	510.0	458.4	439.0	400.3
72.5°	368.0	374.4	445.5	419.6	213.0	180.8	374.4	413.2	374.4	355.1	322.8
75°	271.2	277.6	232.4	96.8	90.4	116.2	219.5	284.1	271.2	264.7	245.3
77.5°	51.6	38.7	32.3	45.2	64.6	96.8	142.0	174.3	180.8	193.7	180.8
80°	6.5	6.5	19.4	38.7	71.0	103.3	148.5	167.9	174.3	180.8	167.9
82.5°	0.0	6.5	19.4	38.7	71.0	96.8	129.1	148.5	161.4	167.9	161.4
85°	0.0	6.5	12.9	32.3	58.1	71.0	64.6	45.2	38.7	45.2	32.3
87.5°	0.0	0.0	6.5	6.5	12.9	12.9	12.9	12.9	12.9	12.9	12.9
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°	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3	4067.3
2.5°	4118.9	4093.1	4002.7	3905.9	3822.0	3860.7	3822.0	3789.7	3802.6	3789.7	3776.8
5°	4344.9	4228.7	4035.0	3951.1	3880.1	3873.6	3854.2	3847.8	3854.2	3854.2	3796.1
7.5°	4557.9	4370.7	4164.1	4073.7	3989.8	3996.3	3951.1	3951.1	3944.6	3912.3	3899.4
10°	4880.7	4629.0	4364.3	4202.9	4099.6	4080.2	4035.0	3989.8	3989.8	3989.8	3925.3
12.5°	5235.8	4919.5	4557.9	4370.7	4248.1	4151.2	4080.2	4067.3	3996.3	3983.4	3951.1
15°	5545.7	5145.4	4687.1	4428.8	4273.9	4144.8	4035.0	3964.0	3931.7	3912.3	3886.5
17.5°	5849.1	5339.1	4758.1	4428.8	4261.0	4112.5	3996.3	3931.7	3854.2	3867.2	3815.5
20°	6255.9	5545.7	4777.4	4344.9	4138.3	3996.3	3841.3	3809.0	3763.9	3725.1	3738.0
22.5°	6649.7	5694.2	4719.3	4241.6	3944.6	3776.8	3699.3	3660.6	3641.2	3608.9	3563.7
25°	7004.8	5855.6	4629.0	4054.4	3738.0	3615.4	3544.4	3537.9	3492.7	3492.7	3408.8
27.5°	7366.3	5913.7	4474.0	3834.9	3557.3	3486.2	3454.0	3441.1	3421.7	3376.5	3318.4
30°	7779.5	5933.1	4248.1	3608.9	3395.9	3318.4	3363.6	3395.9	3311.9	3228.0	3253.8
32.5°	8121.7	5887.9	3976.9	3395.9	3279.7	3240.9	3331.3	3363.6	3266.7	3176.4	3131.2
35°	8534.8	5778.1	3712.2	3228.0	3163.4	3240.9	3318.4	3318.4	3124.7	3015.0	2989.1
37.5°	9161.1	5655.5	3466.9	3086.0	3040.8	3202.2	3305.5	3234.5	2931.0	2795.5	2763.2
40°	9832.5	5578.0	3228.0	2943.9	2976.2	3137.6	3195.7	2976.2	2666.3	2582.4	2556.6
42.5°	10807.4	5423.1	3015.0	2821.3	2918.1	3047.2	3047.2	2653.4	2537.2	2492.0	2485.6
45°	12021.1	5313.3	2827.7	2718.0	2834.2	2866.5	2763.2	2485.6	2401.6	2388.7	2395.2
47.5°	12615.0	5100.2	2634.1	2595.3	2679.2	2685.7	2414.5	2350.0	2279.0	2259.6	2246.7
50°	12524.7	4719.3	2382.3	2433.9	2550.1	2485.6	2201.5	2214.4	2149.9	2143.4	2111.1
52.5°	11892.0	4118.9	2130.5	2253.1	2382.3	2195.0	2027.2	2014.3	2014.3	1930.3	1898.1
55°	10542.7	3318.4	1827.1	1982.0	2136.9	1846.4	1801.2	1788.3	1756.0	1678.6	1659.2
57.5°	8347.6	2433.9	1375.1	1543.0	1814.1	1568.8	1562.4	1504.3	1420.3	1362.2	1362.2
60°	4964.7	1401.0	865.1	942.6	1200.8	1271.8	1413.9	1388.0	1246.0	1155.6	1129.8
62.5°	2266.1	723.1	548.8	561.7	645.6	826.4	1110.4	1284.7	1084.6	929.7	916.8
65°	761.8	535.8	451.9	432.6	445.5	497.1	665.0	910.3	865.1	716.6	690.8
67.5°	464.8	477.7	426.1	393.8	393.8	387.4	380.9	413.2	510.0	497.1	503.6
70°	400.3	439.0	393.8	355.1	342.2	322.8	271.2	226.0	193.7	226.0	238.9
72.5°	322.8	348.6	335.7	303.4	271.2	245.3	193.7	148.5	109.8	96.8	96.8
75°	238.9	258.2	271.2	232.4	206.6	174.3	142.0	96.8	58.1	38.7	38.7
77.5°	174.3	193.7	200.1	180.8	154.9	122.7	90.4	64.6	32.3	12.9	12.9
80°	148.5	174.3	193.7	180.8	161.4	116.2	83.9	45.2	25.8	6.5	6.5
82.5°	142.0	174.3	193.7	174.3	154.9	109.8	83.9	51.6	19.4	6.5	6.5
85°	32.3	45.2	58.1	71.0	83.9	83.9	64.6	38.7	19.4	6.5	6.5
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	6.5	6.5	0.0
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)