

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: P647988

Luminaire Tested: **GALN-SA6A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12417.6 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

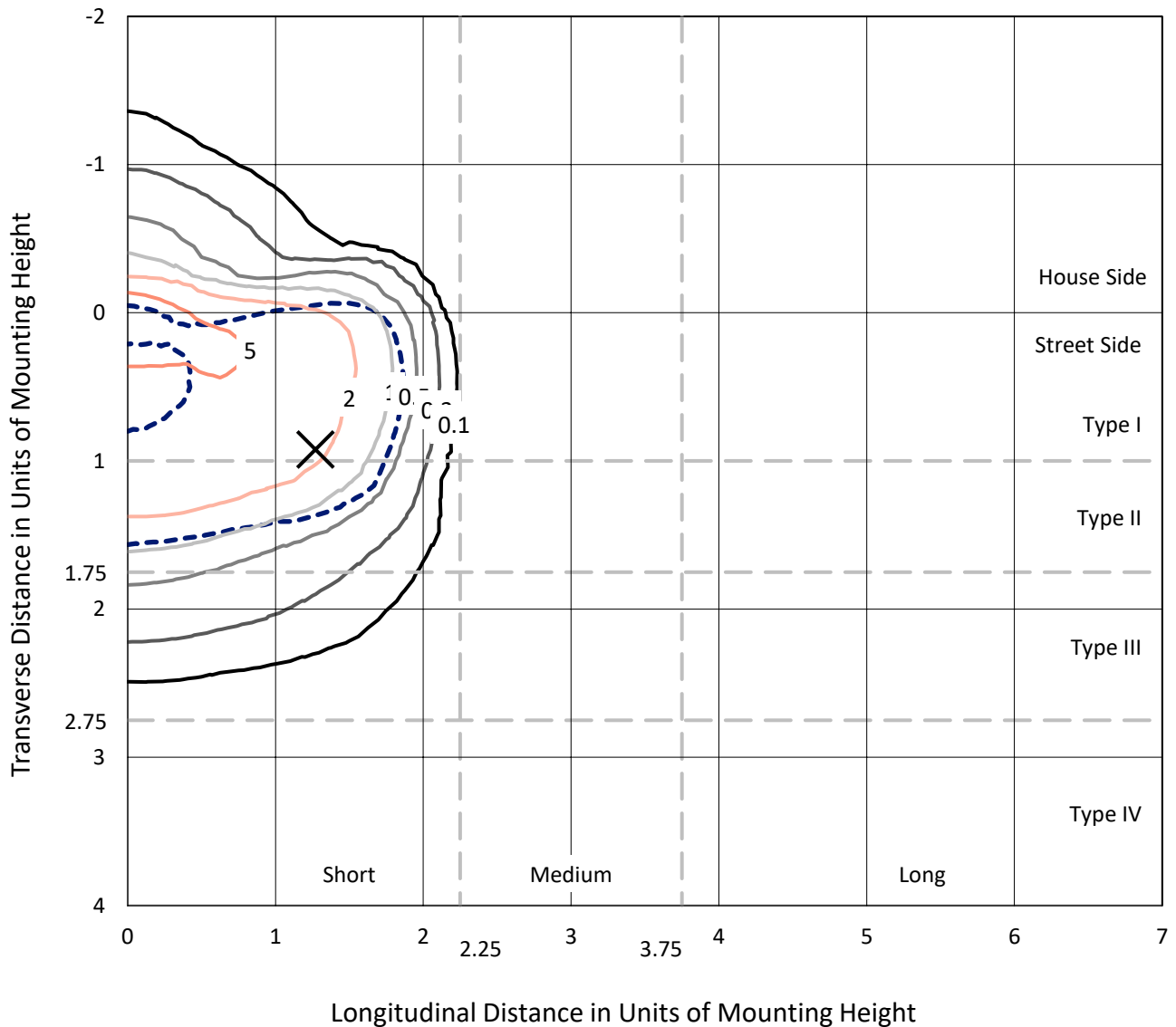
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

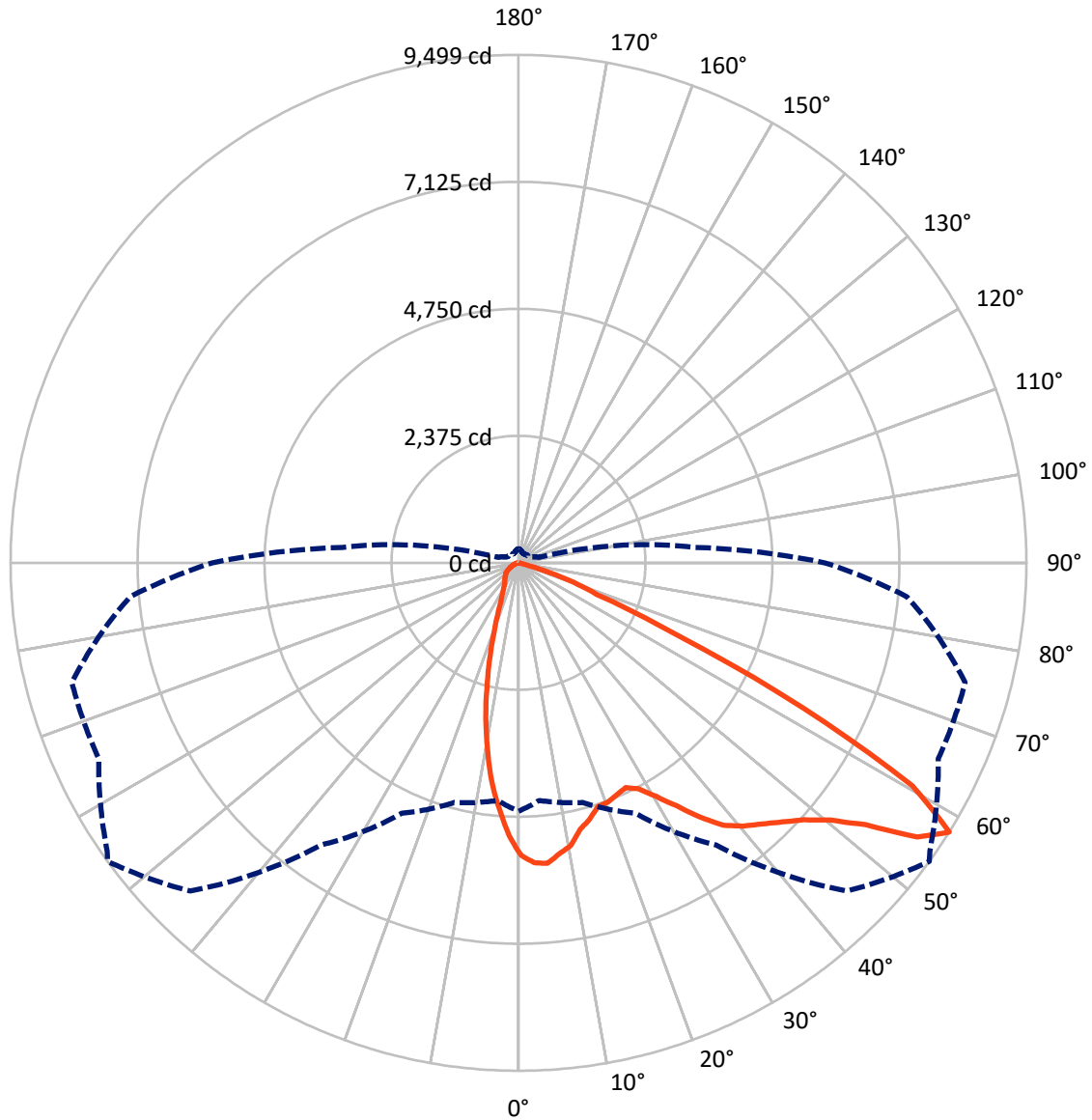
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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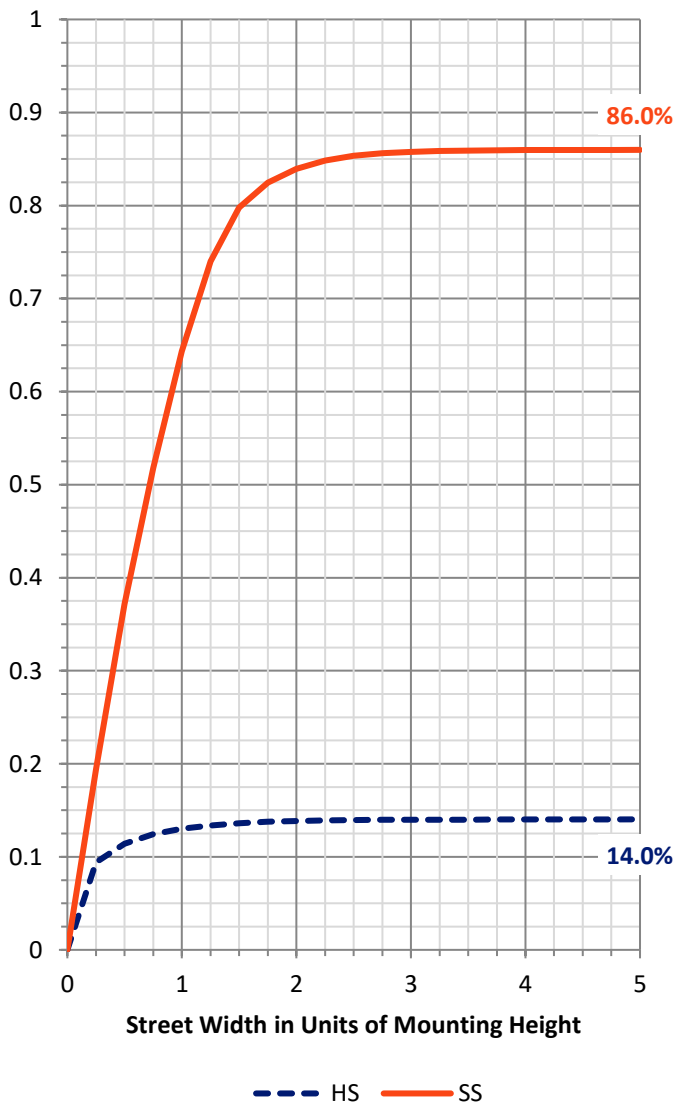
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1754.8	0.0	1754.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10662.8	0.0	10662.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	12417.6	0.0	12417.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.8	3.7
10°-20°	977.3	7.9
20°-30°	1295.1	10.4
30°-40°	1882.1	15.2
40°-50°	2791.0	22.5
50°-60°	3490.0	28.1
60°-70°	1376.6	11.1
70°-80°	137.1	1.1
80°-90°	10.6	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°	12417.6	100.0
0°-180°	12417.6	100.0

Coefficient of Utilization

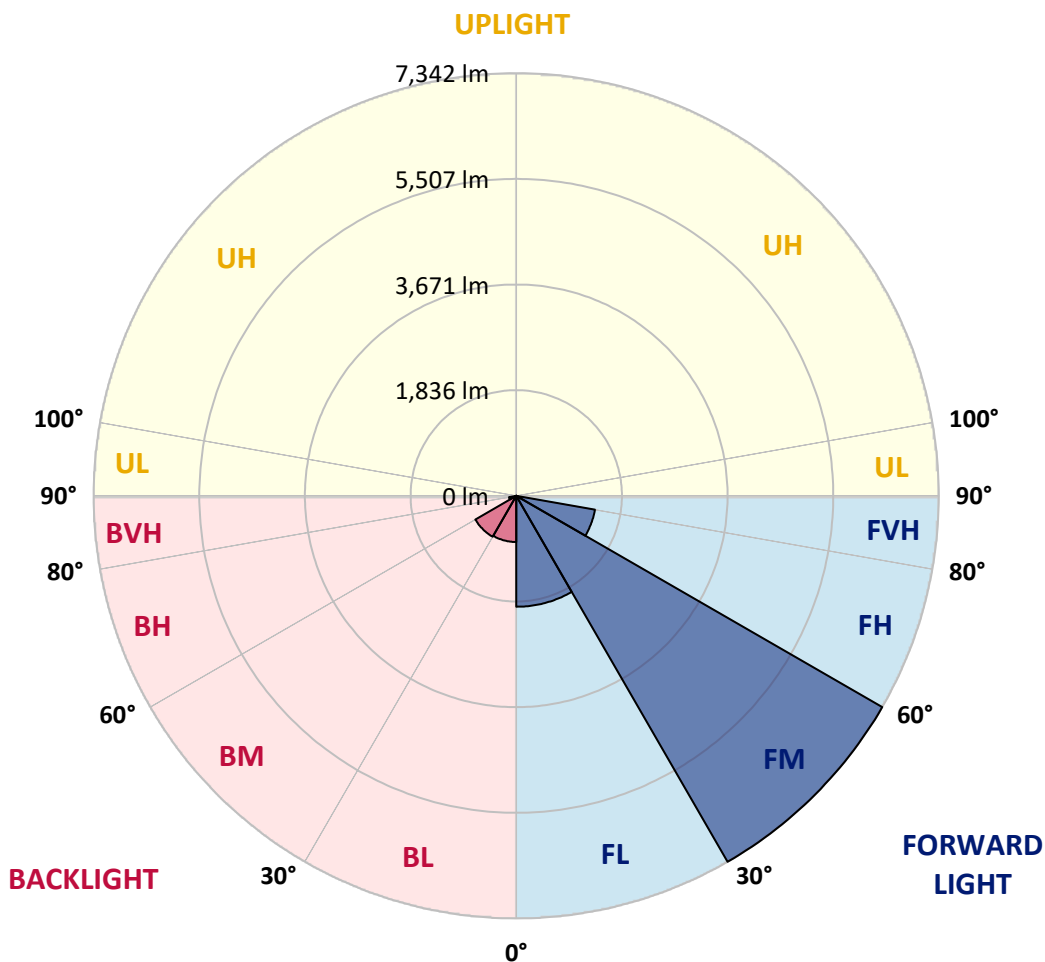


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.6	15.5			
FM (30°-60°)	7342.5	59.1			
FH (60°-80°)	1387.9	11.2			G1/1800
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	802.6	6.5	B2/1000		
BM (30°-60°)	820.6	6.6	B1/1000		
BH (60°-80°)	125.8	1.0	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1
2.5°	5788.8	5728.7	5733.4	5712.5	5684.9	5705.6	5615.6	5636.3	5634.1	5511.7	5430.9
5°	5643.3	5707.9	5641.0	5696.4	5643.3	5701.0	5645.6	5604.0	5537.1	5447.0	5296.9
7.5°	5396.2	5333.9	5352.4	5421.6	5433.2	5562.5	5493.2	5546.3	5518.6	5340.8	5135.3
10°	4899.8	4885.9	4978.3	5070.6	5183.8	5322.4	5375.5	5345.5	5324.6	5257.7	4982.9
12.5°	4518.8	4558.1	4555.7	4708.1	4899.8	4978.3	5116.8	5112.2	5227.7	5103.0	4839.7
15°	4156.2	4177.1	4274.0	4368.7	4581.2	4805.1	4976.0	4999.1	5137.7	5049.9	4728.9
17.5°	3934.6	3904.6	3980.8	4093.9	4311.0	4604.2	4793.6	4849.0	5038.3	5019.9	4601.9
20°	3715.3	3715.3	3777.6	3911.6	4110.1	4440.3	4777.4	4761.3	5038.3	4985.2	4465.7
22.5°	3641.3	3678.3	3694.4	3796.1	4031.6	4315.6	4708.1	4738.2	5077.6	4969.1	4405.6
25°	3743.0	3694.4	3699.0	3779.9	4001.6	4255.5	4657.4	4724.3	5149.2	5049.9	4357.2
27.5°	3759.1	3807.6	3821.4	3876.9	4024.6	4274.0	4784.4	4920.5	5327.0	5239.2	4371.0
30°	3900.0	3948.4	3946.2	4040.8	4142.4	4424.1	5068.4	5096.1	5694.1	5477.0	4456.4
32.5°	4070.8	4121.6	4137.8	4248.6	4329.4	4698.9	5414.7	5486.2	6047.3	5851.1	4680.5
35°	4283.2	4264.8	4338.7	4449.6	4622.7	5100.7	5837.3	5957.3	6428.4	6336.0	4911.4
37.5°	4548.8	4525.7	4597.3	4777.4	5012.9	5576.4	6227.5	6306.0	6705.5	6786.3	5338.5
40°	4735.8	4745.1	4962.1	5204.6	5454.0	6028.9	6474.5	6550.7	6899.4	7206.5	5661.8
42.5°	5047.5	5105.3	5366.2	5661.8	5922.7	6368.4	6675.5	6749.3	6989.4	7543.7	6098.2
45°	5500.1	5474.7	5763.3	6093.5	6382.2	6721.6	6913.3	6887.9	7042.5	7878.5	6372.9
47.5°	6082.0	6086.7	6278.3	6560.0	6860.2	7028.8	7178.8	7088.7	7153.4	8231.8	6740.1
50°	6479.2	6513.8	6668.5	6957.1	7107.2	7365.8	7557.5	7502.1	7481.3	8444.2	6971.0
52.5°	6580.8	6684.7	6767.8	7128.0	7479.0	7887.7	8132.5	8250.2	7880.7	8515.8	7264.3
55°	5814.2	5906.6	6199.8	6693.9	7619.8	8714.3	9051.5	9053.8	8402.6	8834.4	7469.7
57.5°	4648.1	4461.1	4641.2	5165.3	6442.2	8679.7	9499.4	9390.8	8663.5	8647.4	7291.9
60°	3214.2	3168.0	3179.5	3387.3	4458.8	6904.0	8464.9	8605.8	7977.8	7495.1	5772.6
62.5°	2546.9	2507.6	2456.8	2433.7	2768.5	4301.7	5971.2	6169.7	5578.6	4860.6	3422.0
65°	1995.0	1971.9	1978.9	2071.2	2068.9	2440.7	3265.0	3184.1	2549.2	1884.2	1076.0
67.5°	1346.1	1380.8	1408.5	1687.9	1831.0	1699.4	1577.0	1530.9	829.0	348.7	237.8
70°	757.4	762.0	792.0	1055.2	1390.1	1318.5	1087.6	1087.6	413.3	127.0	136.2
72.5°	413.3	399.5	371.8	454.8	618.8	628.0	484.9	422.6	122.4	83.2	76.2
75°	200.9	198.6	170.9	140.9	133.9	110.9	85.4	78.5	55.4	53.1	46.2
77.5°	41.6	39.2	20.7	20.7	23.1	25.4	32.3	32.3	39.2	39.2	32.3
80°	0.0	0.0	2.3	9.2	16.1	23.1	27.7	27.7	32.3	32.3	25.4
82.5°	0.0	0.0	2.3	6.9	13.9	20.7	25.4	27.7	32.3	34.6	27.7
85°	0.0	0.0	0.0	4.6	11.5	16.1	13.9	13.9	11.5	9.2	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1	5470.1
2.5°	5389.3	5384.7	5278.4	5218.5	5109.9	5015.3	4939.0	4883.6	4883.6	4849.0	4816.6
5°	5236.9	5197.6	4971.3	4825.9	4620.4	4468.0	4364.1	4283.2	4156.2	4190.9	4054.7
7.5°	5047.5	4948.2	4648.1	4426.5	4142.4	3925.3	3703.7	3507.4	3318.1	3232.7	3278.8
10°	4844.3	4671.2	4267.1	3916.1	3562.9	3165.7	2907.0	2593.1	2399.1	2387.5	2336.8
12.5°	4629.6	4433.3	3941.5	3456.6	2992.5	2514.5	2119.7	1826.4	1694.8	1549.4	1577.0
15°	4468.0	4177.1	3579.0	2994.8	2378.3	1895.7	1498.6	1272.3	1147.6	1113.0	1101.4
17.5°	4292.5	3980.8	3209.6	2503.0	1865.7	1364.6	1078.3	969.8	921.3	921.3	914.4
20°	4110.1	3759.1	2842.4	2045.8	1399.3	1018.3	863.6	829.0	826.6	824.3	824.3
22.5°	3990.0	3505.1	2509.9	1625.6	1055.2	815.1	750.4	736.6	745.8	773.5	773.5
25°	3863.0	3260.3	2142.8	1253.8	817.4	699.6	662.7	671.9	695.0	720.4	711.2
27.5°	3733.7	3101.1	1796.4	983.7	669.6	611.9	598.1	618.8	644.3	667.4	660.4
30°	3703.7	2930.1	1468.5	745.8	575.0	533.4	542.6	561.1	586.5	595.7	604.9
32.5°	3749.9	2796.2	1203.0	611.9	501.0	489.5	489.5	498.8	514.9	535.7	528.8
35°	3881.5	2720.1	951.3	531.1	459.5	448.0	445.7	454.8	464.1	471.1	464.1
37.5°	4082.4	2660.0	778.1	471.1	431.8	413.3	408.7	406.4	415.6	418.0	422.6
40°	4338.7	2692.3	660.4	434.1	404.1	383.3	369.4	369.4	369.4	376.4	378.7
42.5°	4615.8	2736.2	570.3	413.3	378.7	353.3	339.4	334.8	339.4	348.7	346.3
45°	4906.7	2821.6	512.6	381.0	355.6	323.3	304.8	300.2	311.7	330.2	327.9
47.5°	5179.2	2944.0	468.7	360.2	332.5	302.5	279.4	274.8	295.6	321.0	323.3
50°	5451.6	3156.4	452.6	344.1	316.3	281.7	260.9	256.3	279.4	311.7	318.7
52.5°	5765.7	3385.1	441.1	323.3	297.9	265.5	242.4	237.8	263.2	304.8	307.1
55°	5971.2	3579.0	431.8	286.3	263.2	240.1	221.7	219.4	247.0	284.0	293.2
57.5°	5731.0	3308.9	399.5	249.4	223.9	212.4	196.3	196.3	219.4	254.0	260.9
60°	4345.7	2177.4	284.0	200.9	189.3	182.4	175.5	175.5	193.9	219.4	221.7
62.5°	2544.6	1173.0	182.4	161.6	161.6	154.7	143.1	143.1	161.6	175.5	177.8
65°	755.0	376.4	147.8	138.5	136.2	124.7	113.1	110.9	124.7	131.6	129.3
67.5°	217.0	173.2	122.4	115.4	113.1	94.7	87.8	85.4	87.8	83.2	80.8
70°	129.3	117.8	94.7	97.0	85.4	69.3	62.3	60.1	55.4	48.5	43.8
72.5°	71.6	71.6	69.3	73.9	60.1	46.2	39.2	32.3	25.4	20.7	18.5
75°	43.8	46.2	48.5	50.8	39.2	30.0	25.4	16.1	9.2	4.6	4.6
77.5°	30.0	32.3	34.6	37.0	32.3	27.7	20.7	11.5	2.3	0.0	0.0
80°	23.1	25.4	30.0	32.3	34.6	37.0	27.7	11.5	2.3	0.0	0.0
82.5°	25.4	27.7	34.6	32.3	32.3	32.3	25.4	11.5	2.3	0.0	0.0
85°	4.6	6.9	11.5	11.5	16.1	20.7	16.1	4.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)