

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: P650931

Luminaire Tested: **GALN-SA5C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23182.2 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

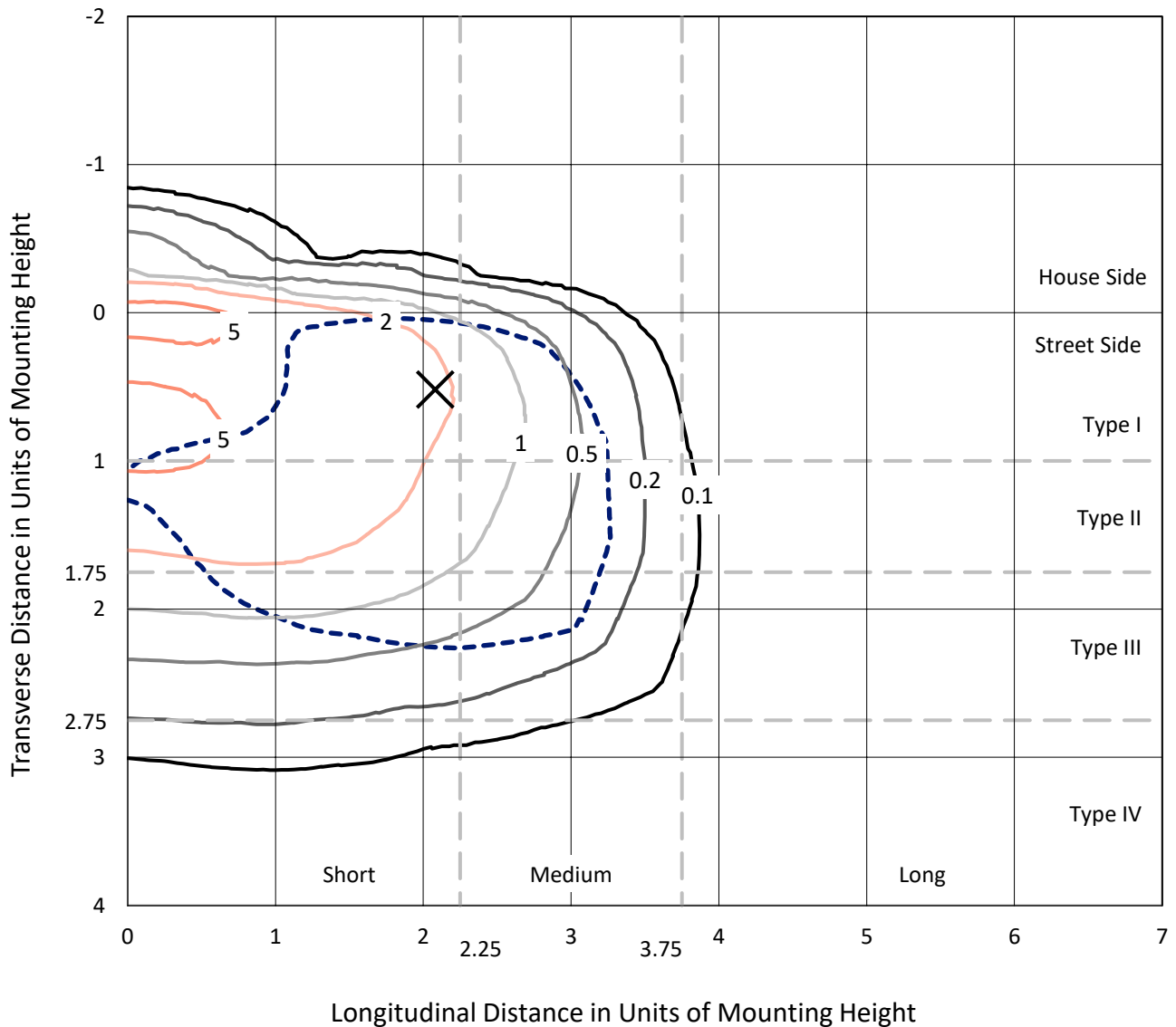
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

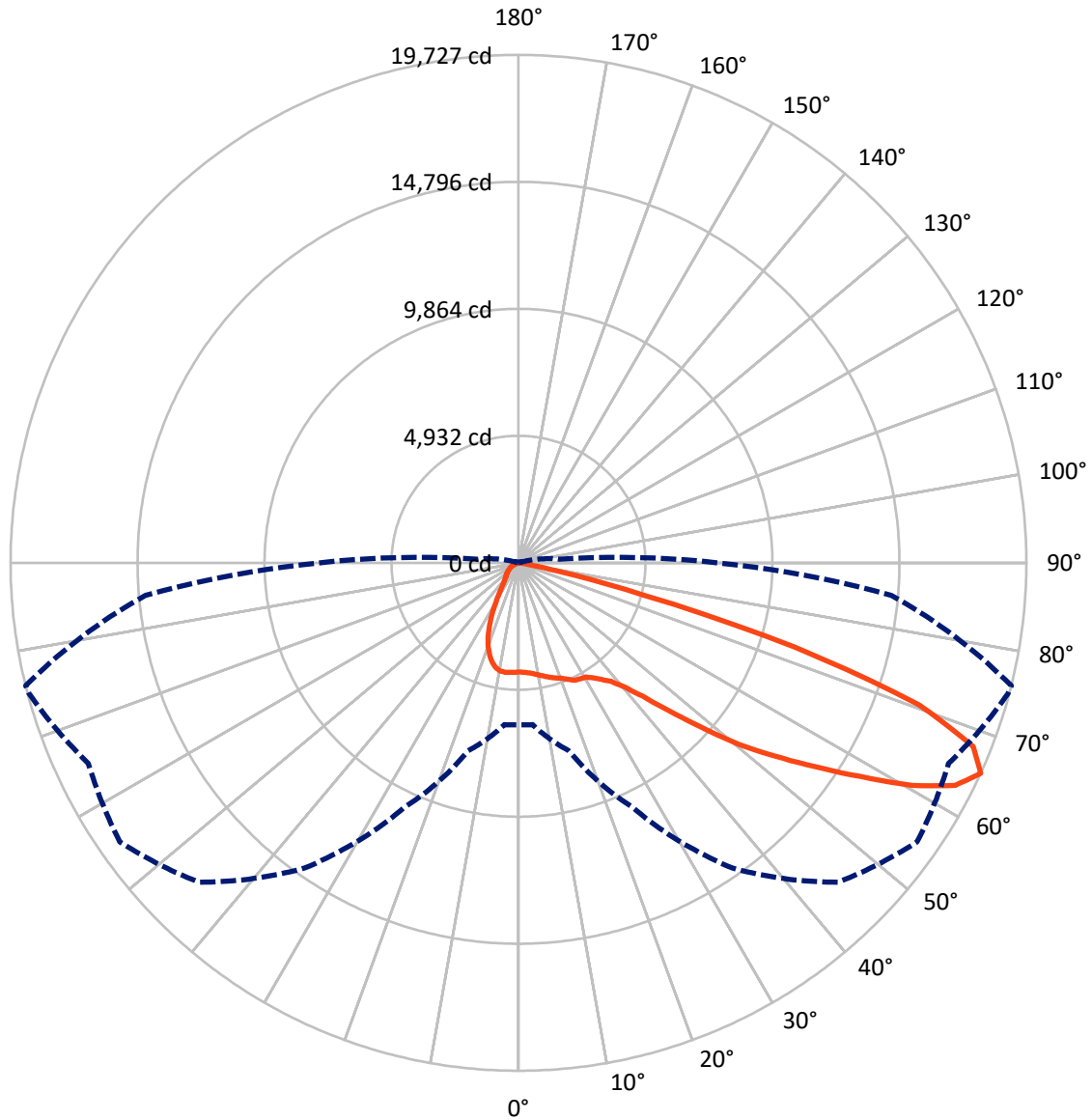
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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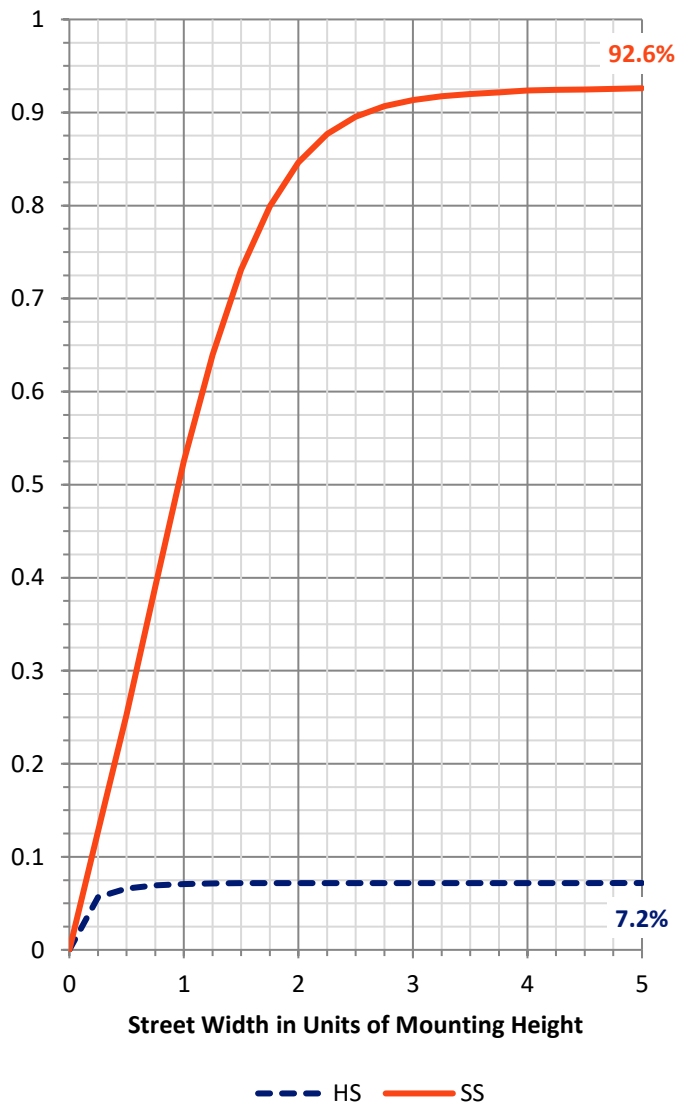
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.2	0.0	1674.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21508.0	0.0	21508.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	23182.2	0.0	23182.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	1.5
10°-20°	777.8	3.4
20°-30°	1253.4	5.4
30°-40°	2179.4	9.4
40°-50°	3601.3	15.5
50°-60°	5563.2	24.0
60°-70°	6793.5	29.3
70°-80°	2578.3	11.1
80°-90°	86.0	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°	23182.2	100.0
0°-180°	23182.2	100.0

Coefficient of Utilization



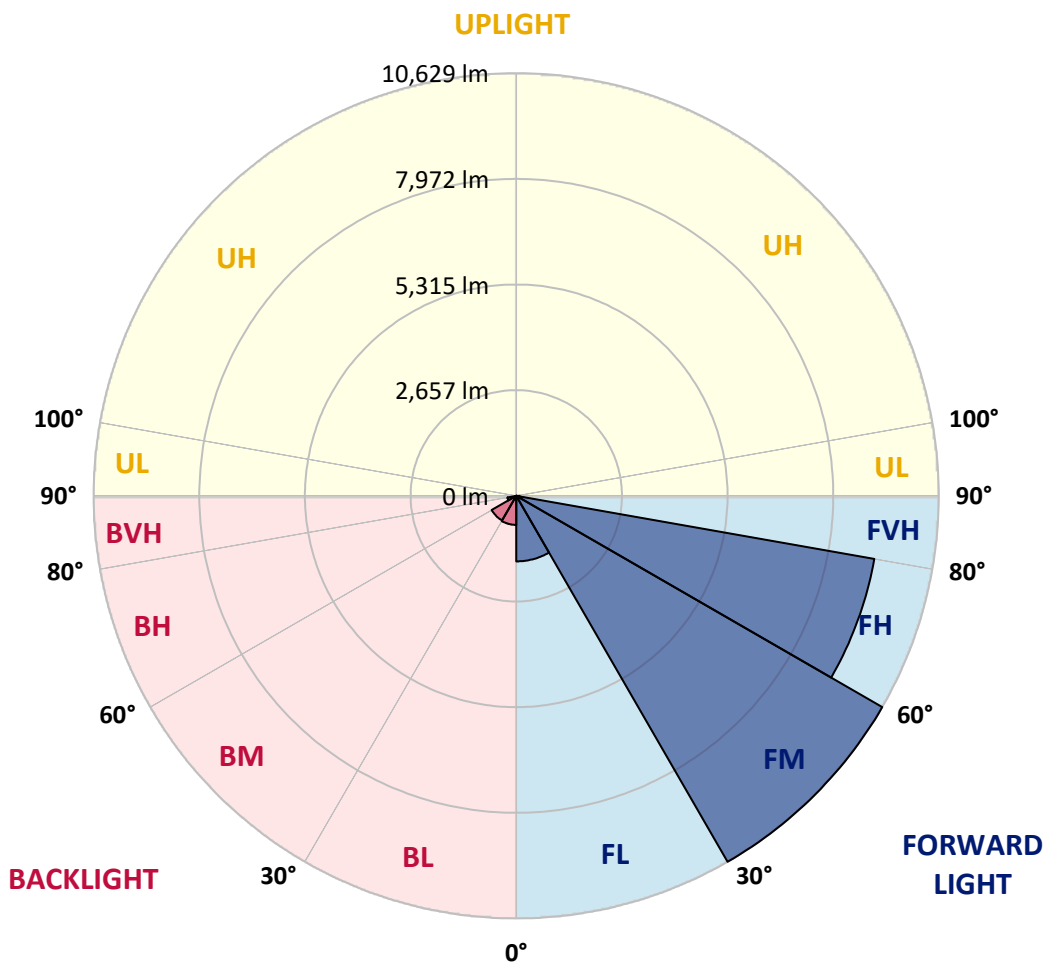
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.1	7.1			
FM (30°-60°)	10629.4	45.9			
FH (60°-80°)	9144.6	39.4			G4/12000
FVH (80°-90°)	84.9	0.4			G1/100
BL (0°-30°)	731.4	3.2	B2/1000		
BM (30°-60°)	714.4	3.1	B1/1000		
BH (60°-80°)	227.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7
2.5°	4052.5	4054.2	4064.0	4088.5	4126.2	4157.3	4183.5	4226.0	4255.5	4258.7	4268.6
5°	3772.6	3753.0	3772.6	3836.5	3893.7	3980.5	4086.9	4193.3	4288.3	4294.7	4340.6
7.5°	3458.4	3474.8	3505.9	3571.3	3679.4	3811.9	3965.8	4155.6	4335.7	4352.1	4442.1
10°	3139.2	3175.3	3226.0	3325.8	3476.4	3648.3	3857.8	4129.5	4411.0	4433.9	4589.4
12.5°	2844.6	2861.0	2923.2	3057.4	3244.0	3486.2	3775.9	4114.8	4494.5	4522.3	4746.5
15°	2618.8	2640.1	2694.1	2815.2	3023.1	3334.0	3708.8	4109.8	4576.3	4615.6	4903.6
17.5°	2576.2	2589.3	2612.2	2694.1	2875.7	3212.9	3648.3	4108.2	4654.9	4702.3	5049.3
20°	2751.3	2739.9	2716.9	2708.8	2808.6	3119.6	3604.1	4121.2	4730.1	4784.1	5203.2
22.5°	3190.0	3204.7	3070.5	2911.7	2879.0	3104.9	3597.5	4183.5	4849.6	4913.5	5375.0
25°	4121.2	4008.4	3798.9	3419.1	3132.7	3194.9	3671.2	4330.8	4988.7	5059.1	5530.5
27.5°	5150.8	5116.4	4790.7	4165.5	3631.9	3384.8	3802.1	4443.7	5034.6	5106.6	5618.9
30°	6162.3	6203.2	5830.0	5139.4	4357.0	3736.6	3924.9	4486.2	5075.5	5150.8	5731.8
32.5°	7100.1	7149.3	6821.9	6137.7	5211.3	4345.5	4136.0	4651.6	5247.3	5324.3	5920.1
35°	7838.3	7844.8	7597.7	7052.6	6144.3	5085.3	4592.6	4941.3	5479.8	5569.8	6119.7
37.5°	8515.9	8506.0	8216.4	7746.6	6921.7	5820.2	5167.1	5275.2	5744.9	5838.2	6407.7
40°	9018.4	9024.9	8931.6	8489.7	7646.8	6499.4	5622.2	5587.8	6190.1	6335.8	6826.8
42.5°	9353.9	9414.5	9460.2	9236.0	8558.4	7335.8	6321.0	6257.2	6962.6	7083.7	7419.3
45°	9625.6	9733.6	9962.7	9951.3	9434.1	8362.1	7280.2	7149.3	8057.6	8186.9	8173.8
47.5°	9823.6	9933.3	10313.0	10542.2	10257.3	9357.1	8486.4	8373.5	9365.4	9506.1	9006.9
50°	9925.1	10056.0	10540.5	10984.0	10900.6	10316.3	9861.3	9867.8	10944.8	11080.6	9972.6
52.5°	9687.8	9858.0	10661.6	11460.4	11622.4	11234.5	11149.4	11365.4	12350.8	12467.0	10844.9
55°	8930.0	9144.4	10496.4	11866.3	12458.7	12318.0	12612.6	12941.6	13887.6	13962.9	11740.3
57.5°	8450.5	8677.9	10008.6	12211.7	13463.7	13679.8	14146.2	14386.8	15473.6	15665.1	12768.1
60°	8046.2	8224.6	9607.6	12285.2	14485.0	15346.0	15799.3	16048.1	17431.2	17555.5	13899.0
62.5°	7373.5	7578.1	8930.0	11771.3	14999.0	16679.9	17619.4	17508.0	18945.1	19031.8	14593.0
65°	6291.6	6309.6	7555.1	10480.0	14468.6	17545.7	18897.6	18431.2	19668.6	19727.4	14539.0
67.5°	4695.8	4869.2	5812.0	8237.7	12221.4	16805.9	19311.7	18455.7	19211.9	19048.2	13385.2
70°	3024.7	3157.3	3939.6	5712.2	8812.2	14025.1	17938.5	17190.5	16861.5	16498.2	10956.2
72.5°	1396.1	1566.4	2340.5	3263.7	5226.1	9990.6	14561.9	13966.2	12136.3	11239.4	6964.2
75°	608.9	651.4	1155.5	1721.9	2450.2	5283.3	9601.0	8669.7	5481.4	5006.7	2787.3
77.5°	371.6	399.4	605.6	923.1	962.4	2013.2	5172.1	3782.5	1694.0	1494.4	756.1
80°	252.0	283.2	440.3	482.8	329.0	561.4	1941.2	1009.9	342.0	327.3	162.1
82.5°	122.8	155.5	325.7	270.0	142.4	180.1	564.6	216.1	99.8	93.3	57.3
85°	18.0	31.1	183.3	176.8	63.8	42.6	99.8	54.0	34.4	32.7	26.2
87.5°	0.0	0.0	62.2	27.8	6.6	6.6	11.4	11.4	13.1	11.4	13.1
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°	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7	4240.7
2.5°	4273.5	4281.7	4250.6	4206.3	4158.9	4111.5	4044.4	3983.8	3947.8	3969.1	3916.7
5°	4350.4	4343.8	4262.0	4127.8	3949.4	3735.0	3522.3	3340.5	3281.7	3193.3	3183.4
7.5°	4456.8	4438.8	4265.3	3957.6	3555.0	3152.3	2759.5	2499.3	2350.3	2224.3	2227.6
10°	4605.7	4553.3	4227.6	3658.1	2995.2	2388.0	1887.1	1543.4	1394.5	1347.0	1309.4
12.5°	4759.6	4658.1	4122.9	3253.8	2332.3	1631.8	1147.4	937.9	846.2	816.7	813.4
15°	4897.1	4736.7	3939.6	2767.7	1695.6	1042.6	782.4	713.6	702.2	703.8	702.2
17.5°	5033.0	4798.9	3685.9	2252.1	1152.3	748.0	672.7	656.3	661.3	667.8	666.2
20°	5145.8	4811.9	3361.8	1718.6	815.1	656.3	631.8	628.5	633.4	638.3	638.3
22.5°	5268.6	4821.8	2977.2	1189.9	666.2	610.5	597.4	597.4	603.9	610.5	612.2
25°	5360.3	4767.8	2517.3	854.4	587.6	566.3	559.8	561.4	567.9	571.2	569.6
27.5°	5375.0	4615.6	2029.5	654.7	533.6	512.3	505.8	512.3	504.1	509.1	505.8
30°	5388.1	4422.4	1535.2	551.6	484.5	451.7	441.9	432.1	425.5	417.4	415.7
32.5°	5429.0	4194.9	1121.1	495.9	438.7	402.7	379.7	351.9	330.6	324.0	322.4
35°	5447.0	3921.6	823.3	451.7	397.7	358.4	317.6	278.2	247.2	235.6	243.9
37.5°	5515.8	3656.4	638.3	419.0	361.7	312.6	260.2	211.2	181.7	175.1	178.4
40°	5656.6	3368.4	535.2	391.1	330.6	270.0	206.2	158.8	139.1	132.5	130.9
42.5°	5882.4	3081.9	476.3	365.0	299.5	227.5	162.1	124.4	108.0	103.1	103.1
45°	6157.4	2807.0	435.4	337.2	266.8	183.3	127.7	99.8	90.0	86.7	86.7
47.5°	6519.1	2566.4	401.0	309.3	230.8	145.7	103.1	86.7	80.2	81.8	83.5
50°	6885.7	2388.0	363.3	278.2	189.9	119.5	88.4	77.0	75.3	77.0	77.0
52.5°	7162.3	2283.2	312.6	235.6	148.9	99.8	78.5	72.0	70.4	67.1	67.1
55°	7535.5	2260.4	248.8	191.5	117.8	83.5	70.4	65.4	60.6	57.3	55.7
57.5°	8015.1	2286.5	191.5	148.9	91.7	68.7	62.2	54.0	47.4	41.0	41.0
60°	8312.9	2227.6	148.9	114.5	67.1	55.7	47.4	39.3	31.1	26.2	24.6
62.5°	8218.0	1978.8	117.8	85.1	47.4	41.0	31.1	26.2	18.0	13.1	11.4
65°	7728.6	1597.5	94.9	59.0	34.4	24.6	16.4	16.4	8.2	1.6	0.0
67.5°	6764.6	1183.4	75.3	39.3	19.7	11.4	8.2	4.9	0.0	0.0	0.0
70°	5505.9	854.4	59.0	24.6	11.4	8.2	3.3	1.6	0.0	0.0	0.0
72.5°	3496.0	489.4	45.8	14.7	8.2	3.3	0.0	0.0	0.0	0.0	0.0
75°	1351.9	191.5	31.1	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	383.0	90.0	18.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.8	39.3	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	47.4	16.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.8	6.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	1.6	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)