

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: P647026

Luminaire Tested: **GALN-SA6C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647026
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-SA6C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 25557.1 lumens
Efficiency: N/A
Efficacy: 79.6 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): 321
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

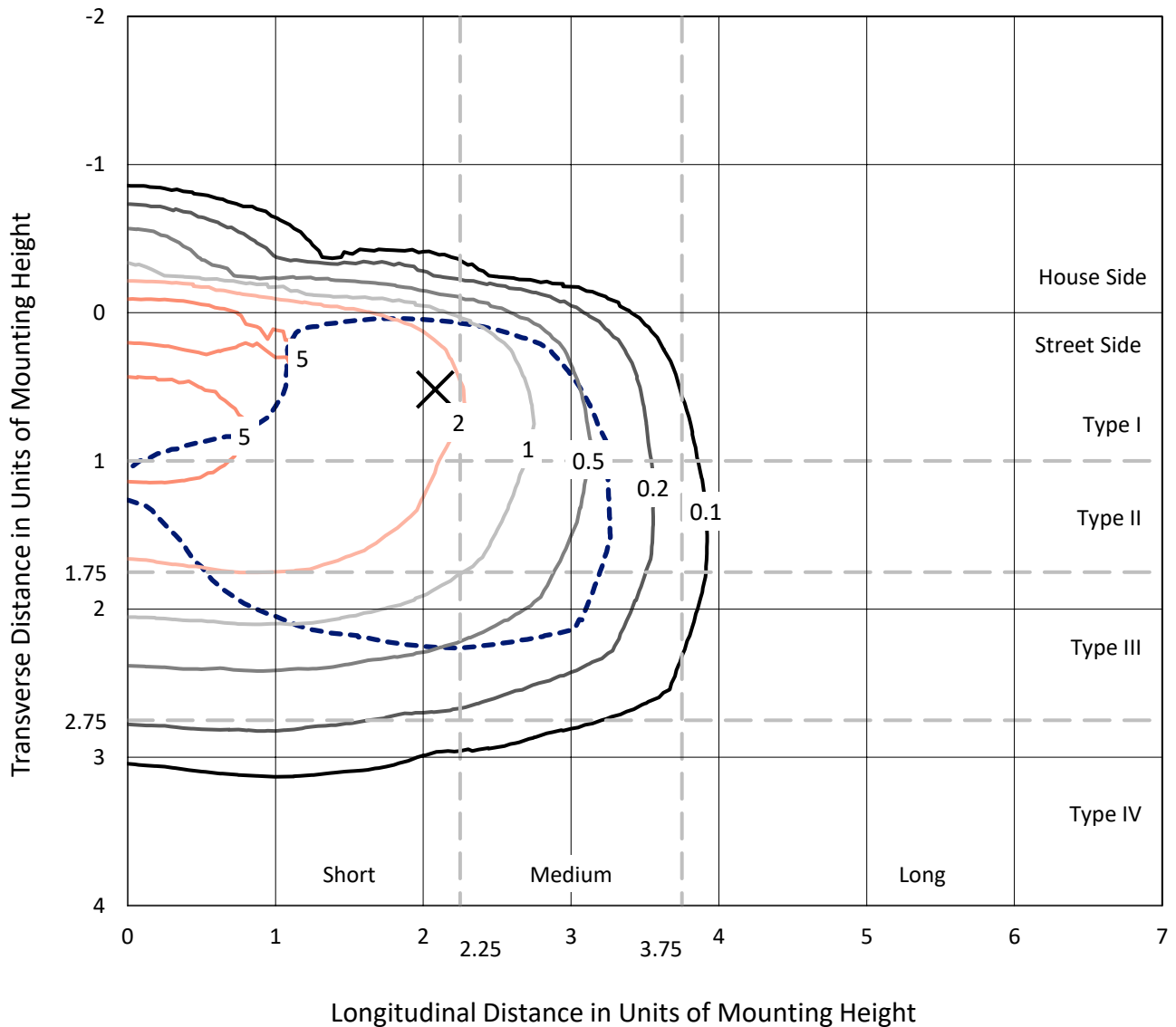




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Iso-Footcandle Lines of Horizontal Illumination

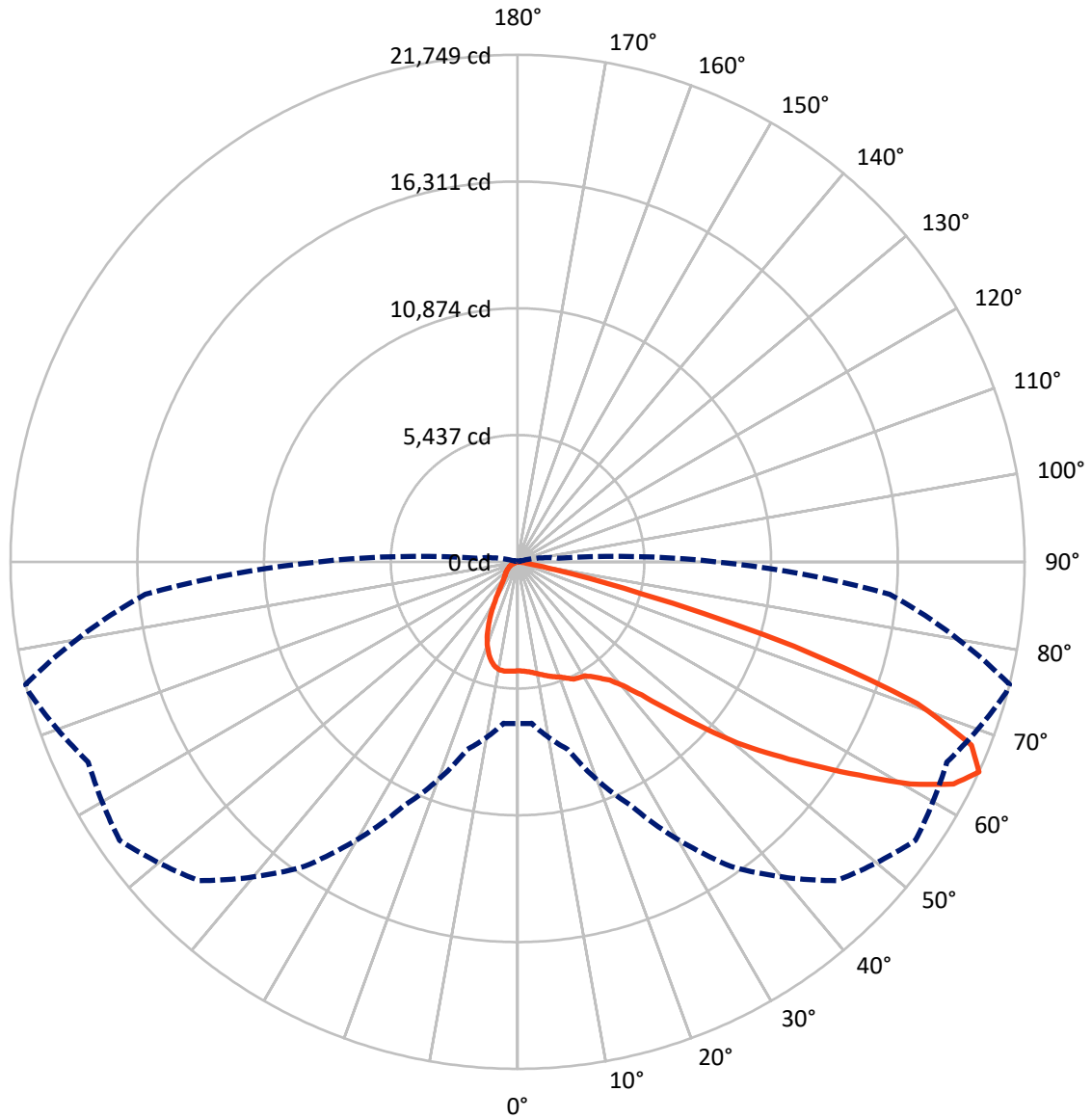
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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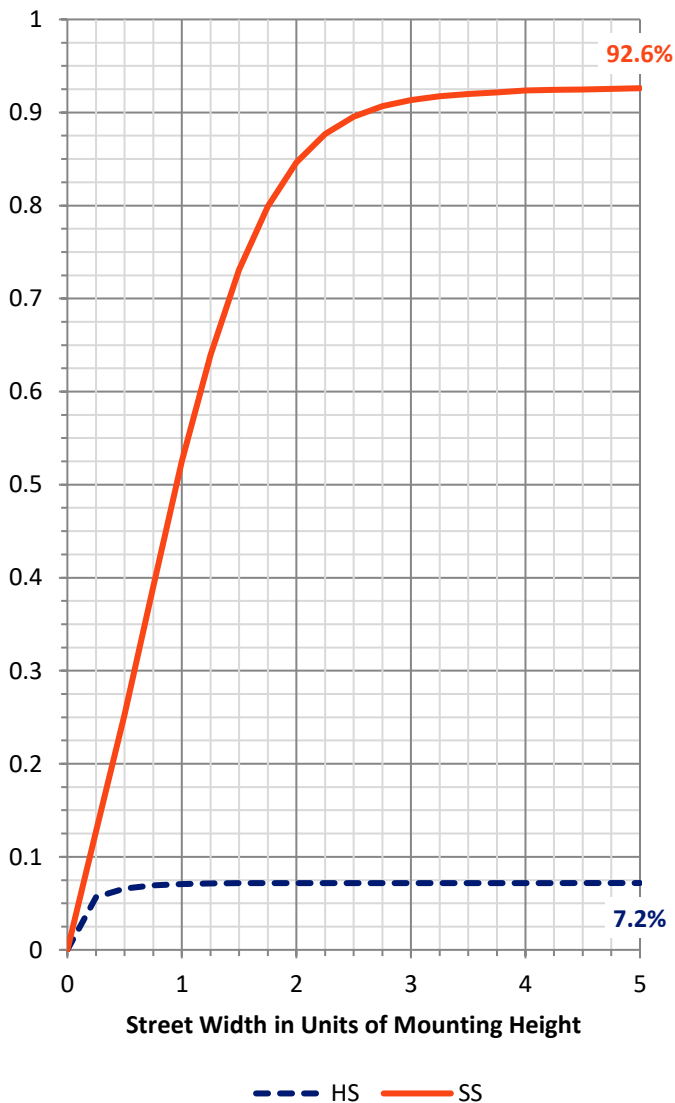
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.7	0.0	1845.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23711.4	0.0	23711.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	25557.1	0.0	25557.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.1	1.5
10°-20°	857.5	3.4
20°-30°	1381.8	5.4
30°-40°	2402.6	9.4
40°-50°	3970.2	15.5
50°-60°	6133.1	24.0
60°-70°	7489.4	29.3
70°-80°	2842.4	11.1
80°-90°	94.9	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°	25557.1	100.0
0°-180°	25557.1	100.0



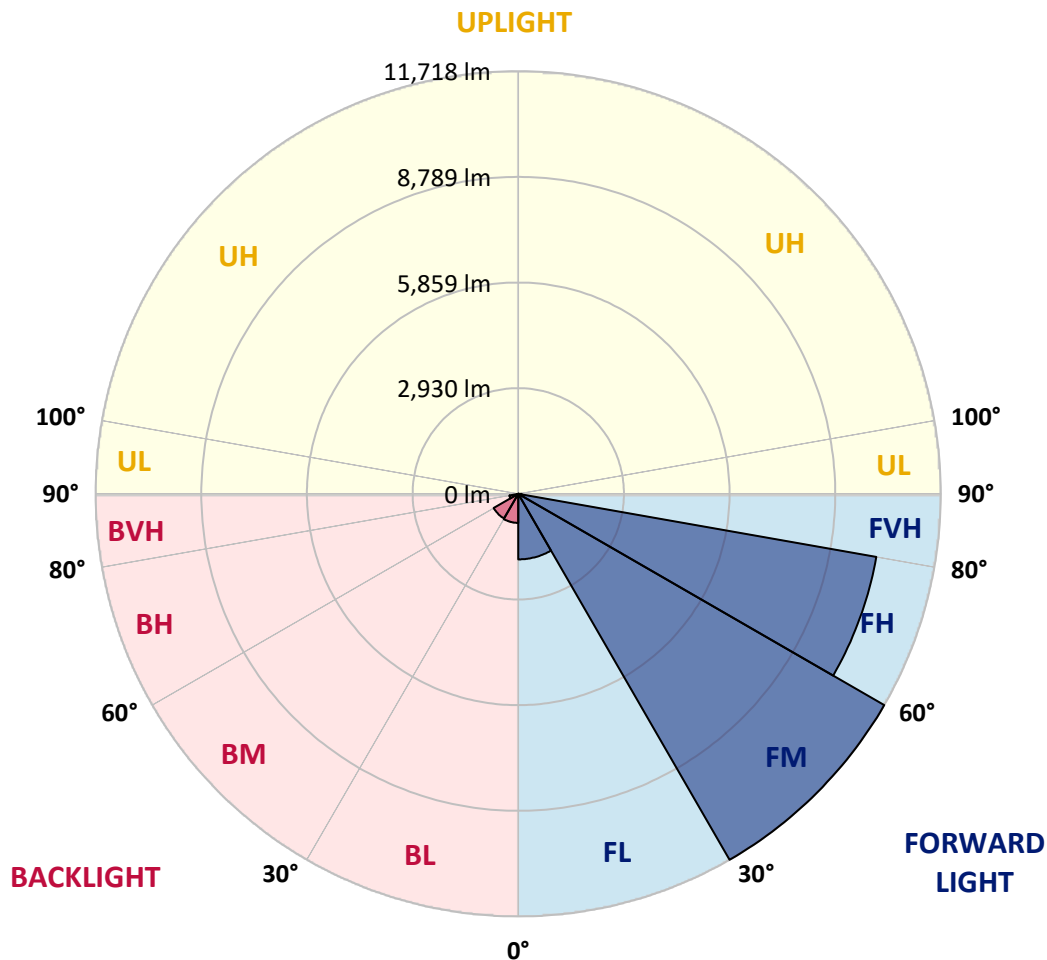
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.1	7.1			
FM (30°-60°)	11718.3	45.9			
FH (60°-80°)	10081.4	39.4			G4/12000
FVH (80°-90°)	93.6	0.4			G1/100
BL (0°-30°)	806.4	3.2	B2/1000		
BM (30°-60°)	787.6	3.1	B1/1000		
BH (60°-80°)	250.4	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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°	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2
2.5°	4467.7	4469.5	4480.3	4507.4	4548.9	4583.2	4612.0	4659.0	4691.4	4695.0	4705.9
5°	4159.1	4137.5	4159.1	4229.5	4292.6	4388.3	4505.6	4622.9	4727.5	4734.7	4785.3
7.5°	3812.7	3830.7	3865.0	3937.2	4056.3	4202.4	4372.0	4581.4	4779.9	4797.9	4897.1
10°	3460.9	3500.6	3556.5	3666.6	3832.6	4022.0	4253.0	4552.5	4862.9	4888.1	5059.6
12.5°	3136.1	3154.1	3222.7	3370.7	3576.4	3843.4	4162.7	4536.3	4954.9	4985.6	5232.8
15°	2887.1	2910.5	2970.1	3103.6	3332.8	3675.6	4088.7	4530.8	5045.1	5088.4	5406.0
17.5°	2840.1	2854.6	2879.8	2970.1	3170.4	3542.1	4022.0	4529.0	5131.7	5184.1	5566.6
20°	3033.2	3020.6	2995.3	2986.3	3096.4	3439.2	3973.3	4543.5	5214.7	5274.3	5736.2
22.5°	3516.8	3533.1	3385.1	3210.1	3174.0	3423.0	3966.1	4612.0	5346.5	5416.8	5925.7
25°	4543.5	4419.0	4188.0	3769.4	3453.7	3522.2	4047.2	4774.4	5499.8	5577.4	6097.1
27.5°	5678.5	5640.6	5281.5	4592.2	4003.9	3731.5	4191.6	4899.0	5550.4	5629.8	6194.5
30°	6793.6	6838.7	6427.3	5665.9	4803.3	4119.4	4326.9	4945.9	5595.5	5678.5	6319.0
32.5°	7827.5	7881.7	7520.8	6766.5	5745.3	4790.7	4559.7	5128.1	5785.0	5869.8	6526.5
35°	8641.3	8648.5	8376.1	7775.2	6773.7	5606.3	5063.2	5447.5	6041.2	6140.4	6746.6
37.5°	9388.3	9377.5	9058.1	8540.3	7630.8	6416.5	5696.5	5815.6	6333.5	6436.3	7064.2
40°	9942.3	9949.5	9846.6	9359.4	8430.2	7165.3	6198.1	6160.3	6824.2	6984.8	7526.2
42.5°	10312.2	10378.9	10429.5	10182.3	9435.2	8087.4	6968.6	6898.2	7675.9	7809.5	8179.4
45°	10611.7	10730.8	10983.4	10970.8	10400.6	9218.7	8026.0	7881.7	8883.1	9025.6	9011.2
47.5°	10830.1	10951.0	11369.6	11622.1	11308.2	10315.8	9355.8	9231.3	10324.8	10480.0	9929.6
50°	10941.9	11086.3	11620.3	12109.3	12017.3	11373.2	10871.6	10878.8	12066.0	12215.8	10994.3
52.5°	10680.3	10868.0	11753.9	12634.4	12813.1	12385.4	12291.6	12529.8	13616.1	13744.2	11956.0
55°	9844.8	10081.2	11571.6	13082.0	13735.2	13580.0	13904.7	14267.4	15310.4	15393.4	12943.0
57.5°	9316.1	9566.9	11034.0	13462.7	14843.0	15081.2	15595.5	15860.7	17058.8	17269.9	14076.1
60°	8870.5	9067.1	10591.9	13543.9	15969.0	16918.1	17417.9	17692.2	19216.9	19354.0	15323.0
62.5°	8128.9	8354.4	9844.8	12977.3	16535.6	18388.7	19424.4	19301.7	20886.0	20981.6	16088.1
65°	6936.1	6956.0	8329.2	11553.6	15951.0	19343.2	20833.7	20319.4	21683.5	21748.5	16028.6
67.5°	5176.8	5368.1	6407.4	9081.5	13473.5	18527.7	21290.2	20346.5	21180.1	20999.7	14756.4
70°	3334.6	3480.7	4343.2	6297.4	9714.9	15462.0	19776.3	18951.7	18589.0	18188.4	12078.7
72.5°	1539.1	1726.8	2580.3	3598.0	5761.5	11014.1	16053.8	15397.0	13379.7	12390.8	7677.7
75°	671.3	718.2	1273.9	1898.2	2701.2	5824.6	10584.7	9557.9	6043.0	5519.7	3072.9
77.5°	409.6	440.3	667.7	1017.7	1061.0	2219.4	5701.9	4169.9	1867.5	1647.4	833.7
80°	277.9	312.2	485.4	532.3	362.7	618.9	2140.0	1113.3	377.1	360.9	178.6
82.5°	135.3	171.4	359.1	297.7	157.0	198.5	622.5	238.2	110.1	102.9	63.2
85°	19.8	34.3	202.1	194.9	70.4	46.9	110.1	59.5	37.9	36.1	28.9
87.5°	0.0	0.0	68.6	30.7	7.2	7.2	12.6	12.6	14.4	12.6	14.4
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°	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2	4675.2
2.5°	4711.3	4720.3	4686.0	4637.3	4585.0	4532.6	4458.7	4391.9	4352.2	4375.7	4317.9
5°	4796.1	4788.9	4698.7	4550.7	4354.0	4117.6	3883.1	3682.8	3617.9	3520.4	3509.6
7.5°	4913.4	4893.5	4702.3	4363.0	3919.1	3475.3	3042.2	2755.3	2591.1	2452.2	2455.8
10°	5077.6	5019.9	4660.8	4032.8	3302.1	2632.6	2080.5	1701.5	1537.3	1485.0	1443.5
12.5°	5247.2	5135.3	4545.3	3587.2	2571.3	1799.0	1264.9	1034.0	932.9	900.4	896.8
15°	5398.8	5222.0	4343.2	3051.3	1869.3	1149.4	862.5	786.8	774.1	775.9	774.1
17.5°	5548.6	5290.5	4063.5	2482.9	1270.3	824.6	741.6	723.6	729.0	736.2	734.4
20°	5673.1	5305.0	3706.3	1894.6	898.6	723.6	696.5	692.9	698.3	703.7	703.7
22.5°	5808.4	5315.8	3282.2	1311.8	734.4	673.1	658.6	658.6	665.9	673.1	674.9
25°	5909.5	5256.2	2775.2	941.9	647.8	624.3	617.1	618.9	626.2	629.8	628.0
27.5°	5925.7	5088.4	2237.5	721.8	588.3	564.8	557.6	564.8	555.8	561.2	557.6
30°	5940.1	4875.5	1692.5	608.1	534.1	498.0	487.2	476.4	469.2	460.1	458.3
32.5°	5985.2	4624.7	1236.0	546.8	483.6	443.9	418.6	388.0	364.5	357.3	355.5
35°	6005.1	4323.3	907.7	498.0	438.5	395.2	350.1	306.8	272.5	259.8	268.9
37.5°	6080.9	4031.0	703.7	461.9	398.8	344.7	286.9	232.8	200.3	193.1	196.7
40°	6236.0	3713.5	590.1	431.3	364.5	297.7	227.4	175.0	153.4	146.2	144.4
42.5°	6485.0	3397.7	525.1	402.4	330.2	250.8	178.6	137.1	119.1	113.7	113.7
45°	6788.1	3094.6	480.0	371.7	294.1	202.1	140.7	110.1	99.2	95.6	95.6
47.5°	7186.9	2829.3	442.1	341.0	254.4	160.6	113.7	95.6	88.4	90.2	92.0
50°	7591.1	2632.6	400.6	306.8	209.3	131.7	97.4	84.8	83.0	84.8	84.8
52.5°	7896.1	2517.1	344.7	259.8	164.2	110.1	86.6	79.4	77.6	74.0	74.0
55°	8307.5	2491.9	274.3	211.1	129.9	92.0	77.6	72.2	66.8	63.2	61.4
57.5°	8836.2	2520.8	211.1	164.2	101.1	75.8	68.6	59.5	52.3	45.1	45.1
60°	9164.5	2455.8	164.2	126.3	74.0	61.4	52.3	43.3	34.3	28.9	27.1
62.5°	9059.9	2181.5	129.9	93.8	52.3	45.1	34.3	28.9	19.8	14.4	12.6
65°	8520.4	1761.1	104.7	65.0	37.9	27.1	18.0	18.0	9.0	1.8	0.0
67.5°	7457.6	1304.6	83.0	43.3	21.7	12.6	9.0	5.4	0.0	0.0	0.0
70°	6070.1	941.9	65.0	27.1	12.6	9.0	3.6	1.8	0.0	0.0	0.0
72.5°	3854.2	539.5	50.5	16.2	9.0	3.6	0.0	0.0	0.0	0.0	0.0
75°	1490.4	211.1	34.3	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	422.2	99.2	19.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.1	43.3	10.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	18.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.7	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	1.8	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)