

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: P646971

Luminaire Tested: **GALN-SA5C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646971
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-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 21583.4 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

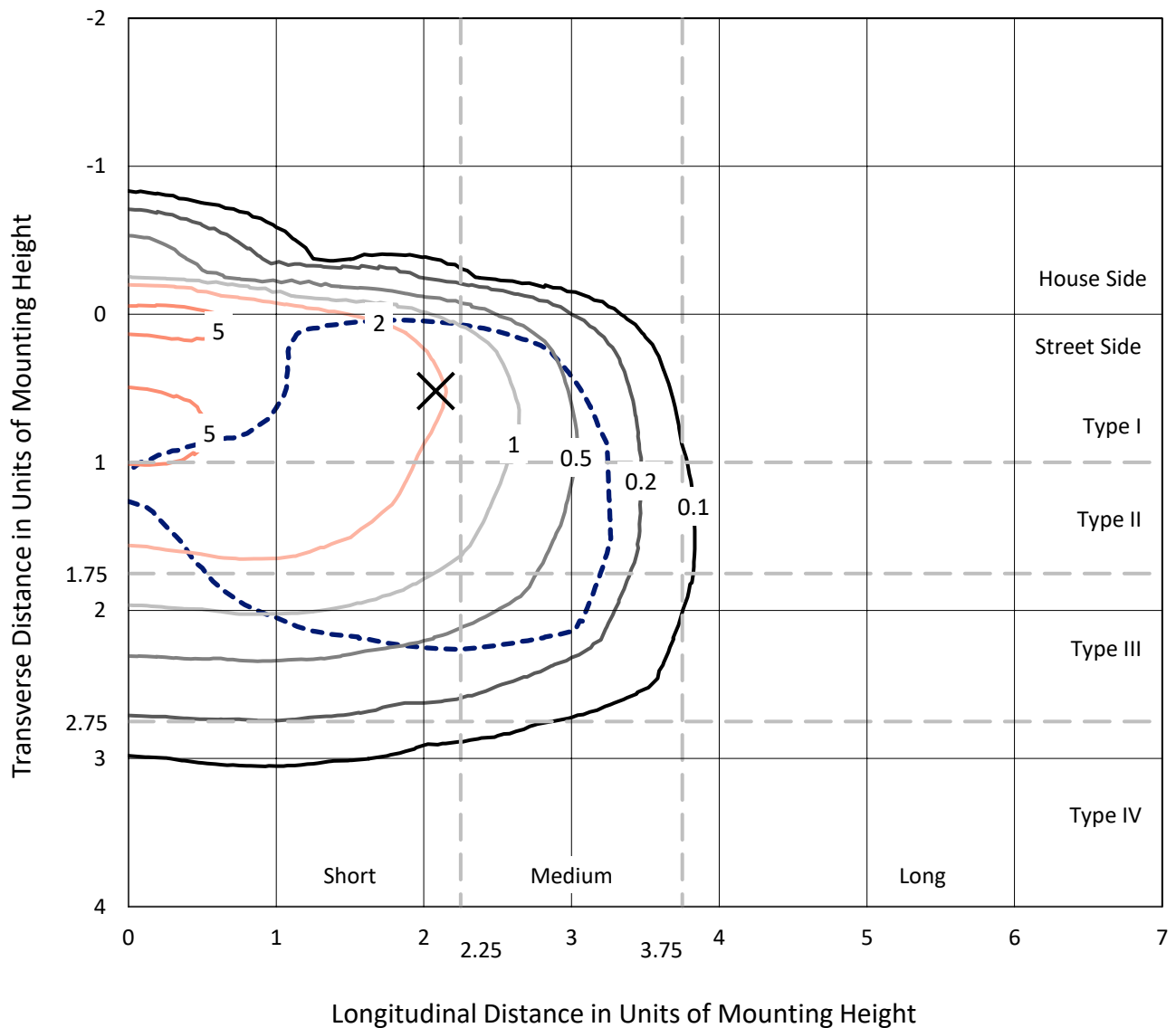
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

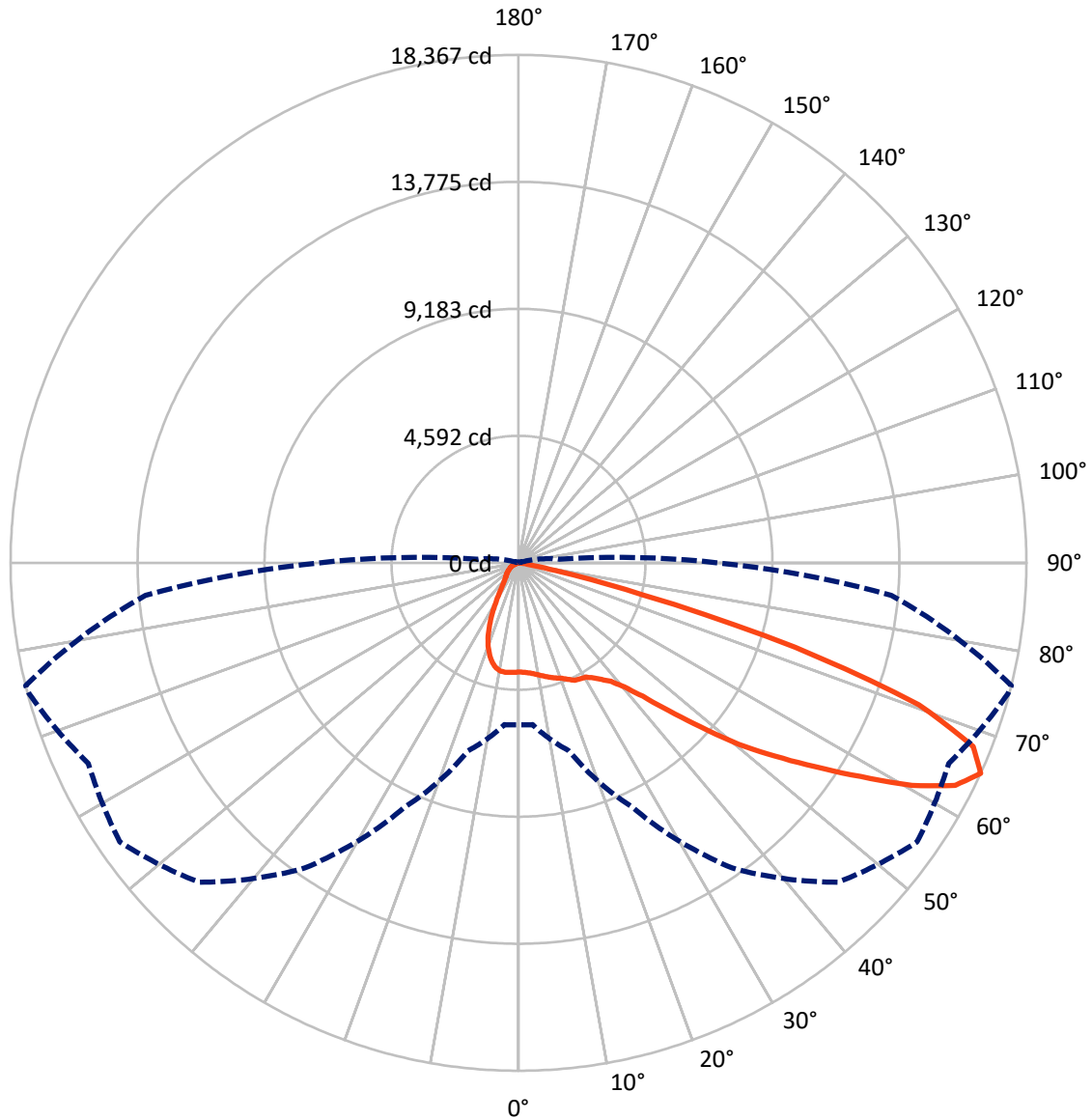
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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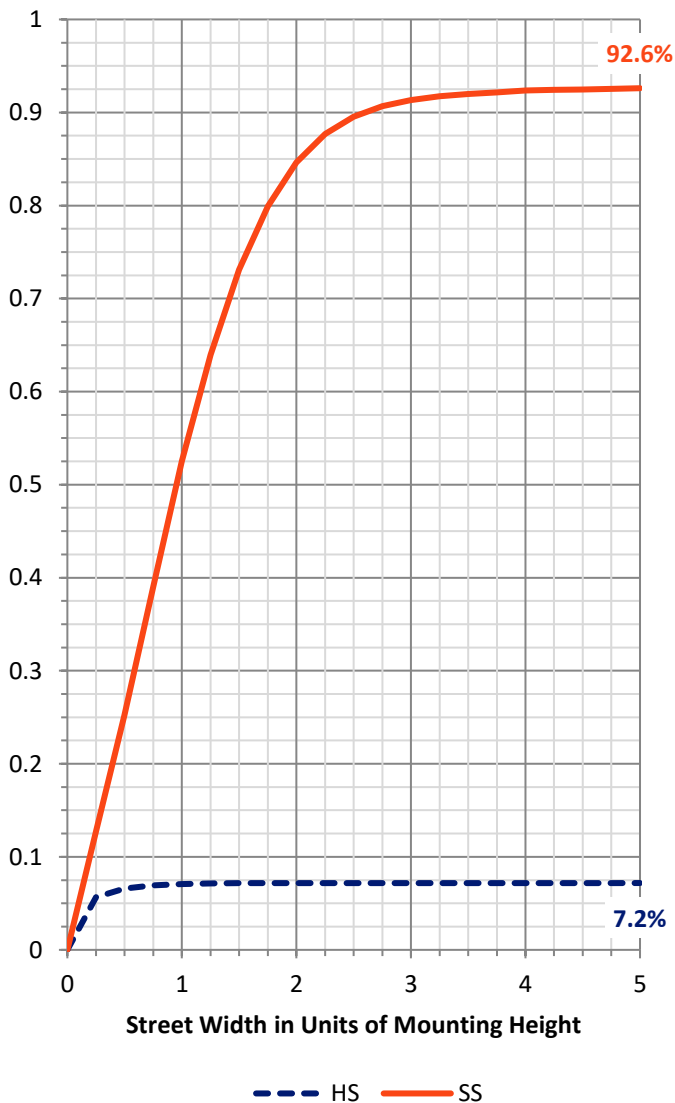
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.8	0.0	1558.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20024.6	0.0	20024.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	21583.4	0.0	21583.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.2	1.5
10°-20°	724.2	3.4
20°-30°	1167.0	5.4
30°-40°	2029.1	9.4
40°-50°	3352.9	15.5
50°-60°	5179.5	24.0
60°-70°	6324.9	29.3
70°-80°	2400.5	11.1
80°-90°	80.1	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°	21583.4	100.0
0°-180°	21583.4	100.0

Coefficient of Utilization

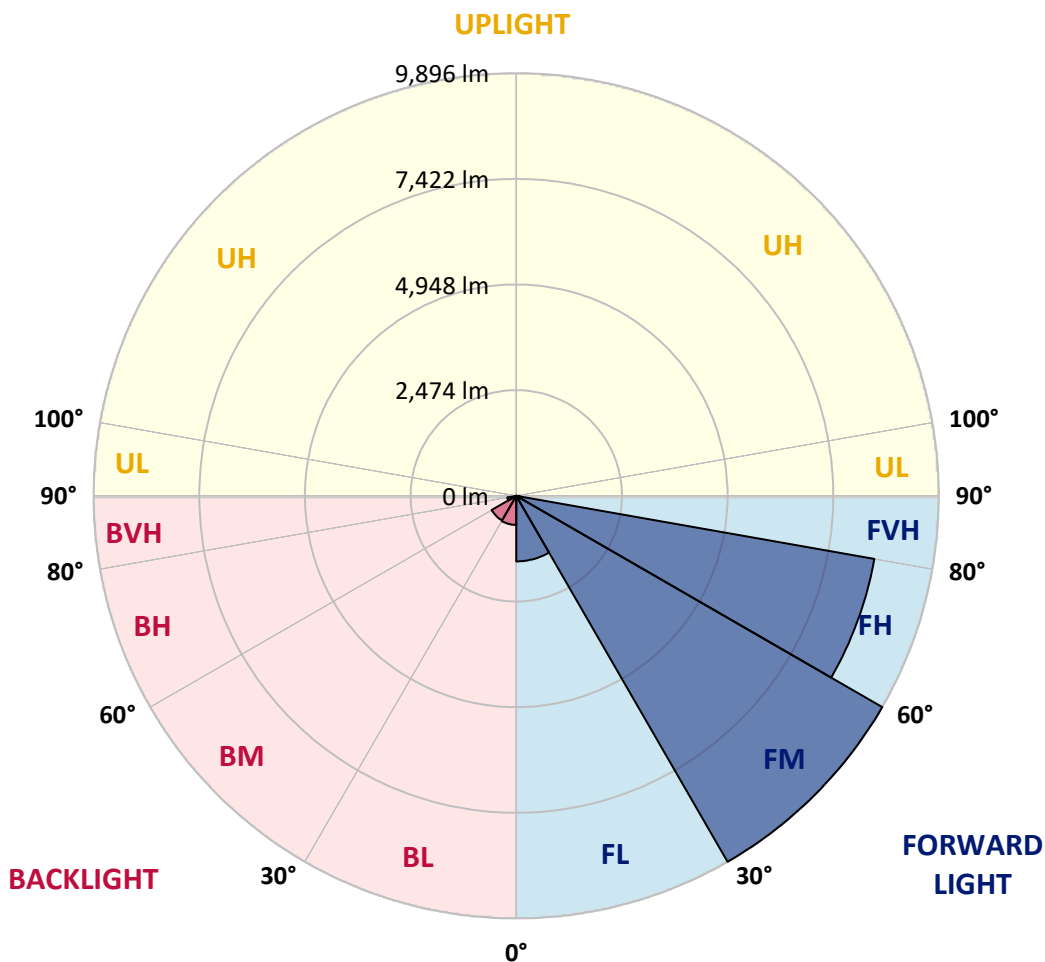


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.4	7.1			
FM (30°-60°)	9896.3	45.9			
FH (60°-80°)	8513.9	39.4			G4/12000
FVH (80°-90°)	79.0	0.4			G1/100
BL (0°-30°)	681.0	3.2	B2/1000		
BM (30°-60°)	665.2	3.1	B1/1000		
BH (60°-80°)	211.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.1	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°	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3
2.5°	3773.0	3774.6	3783.7	3806.6	3841.6	3870.6	3895.0	3934.6	3962.0	3965.0	3974.2
5°	3512.5	3494.2	3512.5	3571.9	3625.2	3706.0	3805.1	3904.1	3992.5	3998.5	4041.2
7.5°	3219.9	3235.1	3264.1	3325.0	3425.6	3549.0	3692.3	3869.0	4036.7	4051.9	4135.7
10°	2922.7	2956.3	3003.5	3096.5	3236.7	3396.7	3591.7	3844.7	4106.8	4128.1	4272.9
12.5°	2648.4	2663.7	2721.6	2846.5	3020.3	3245.8	3515.5	3831.0	4184.5	4210.4	4419.2
15°	2438.2	2458.0	2508.3	2621.0	2814.6	3104.0	3453.0	3826.4	4260.7	4297.3	4565.4
17.5°	2398.6	2410.7	2432.1	2508.3	2677.4	2991.3	3396.7	3824.9	4333.8	4378.0	4701.1
20°	2561.6	2550.9	2529.6	2522.0	2614.9	2904.5	3355.5	3837.0	4403.9	4454.2	4844.3
22.5°	2970.0	2983.7	2858.7	2710.9	2680.4	2890.8	3349.4	3895.0	4515.2	4574.6	5004.3
25°	3837.0	3731.9	3536.9	3183.3	2916.7	2974.5	3418.0	4032.1	4644.7	4710.2	5149.1
27.5°	4795.6	4763.5	4460.3	3878.2	3381.4	3151.3	3539.9	4137.2	4687.4	4754.4	5231.4
30°	5737.3	5775.4	5427.9	4784.9	4056.5	3478.9	3654.2	4176.8	4725.5	4795.6	5336.5
32.5°	6610.5	6656.2	6351.4	5714.4	4851.9	4045.8	3850.8	4330.8	4885.5	4957.1	5511.8
35°	7297.7	7303.8	7073.7	6566.2	5720.5	4734.6	4275.9	4600.5	5101.9	5185.7	5697.7
37.5°	7928.6	7919.4	7649.8	7212.4	6444.3	5418.8	4810.8	4911.4	5348.7	5435.6	5965.8
40°	8396.4	8402.5	8315.6	7904.2	7119.4	6051.2	5234.4	5202.4	5763.2	5898.8	6356.0
42.5°	8708.8	8765.2	8807.8	8599.1	7968.2	6829.9	5885.1	5825.7	6482.5	6595.2	6907.6
45°	8961.7	9062.4	9275.7	9265.0	8783.5	7785.4	6778.1	6656.2	7501.9	7622.3	7610.1
47.5°	9146.1	9248.2	9601.8	9815.1	9549.9	8711.8	7901.2	7796.0	8719.5	8850.5	8385.8
50°	9240.7	9362.5	9813.6	10226.5	10148.9	9604.8	9181.2	9187.3	10190.0	10316.4	9284.8
52.5°	9019.7	9178.2	9926.3	10670.0	10820.8	10459.7	10380.5	10581.6	11499.0	11607.2	10097.0
55°	8314.1	8513.7	9772.5	11047.9	11599.5	11468.5	11742.8	12049.0	12929.8	12999.9	10930.6
57.5°	7867.7	8079.5	9318.3	11369.5	12535.2	12736.4	13170.6	13394.6	14406.5	14584.8	11887.5
60°	7491.3	7657.3	8945.0	11438.0	13486.1	14287.6	14709.7	14941.4	16229.0	16344.8	12940.5
62.5°	6865.0	7055.5	8314.1	10959.5	13964.6	15529.6	16404.2	16300.6	17638.6	17719.3	13586.6
65°	5857.7	5874.5	7034.1	9757.2	13470.8	16335.7	17594.3	17160.1	18312.1	18366.9	13536.3
67.5°	4372.0	4533.4	5411.2	7669.6	11378.6	15646.8	17979.9	17182.9	17886.9	17734.6	12462.1
70°	2816.1	2939.5	3667.9	5318.2	8204.4	13057.9	16701.4	16005.0	15698.7	15360.4	10200.6
72.5°	1299.9	1458.3	2179.1	3038.6	4865.6	9301.6	13557.6	13003.0	11299.3	10464.2	6483.9
75°	566.9	606.5	1075.8	1603.1	2281.2	4919.0	8938.9	8071.8	5103.4	4661.4	2595.1
77.5°	345.9	371.8	563.8	859.4	896.0	1874.3	4815.4	3521.6	1577.2	1391.3	704.0
80°	234.7	263.6	409.9	449.5	306.3	522.7	1807.3	940.2	318.4	304.7	150.9
82.5°	114.3	144.8	303.3	251.4	132.6	167.6	525.7	201.2	92.9	86.8	53.3
85°	16.8	29.0	170.7	164.6	59.4	39.6	92.9	50.3	32.0	30.5	24.4
87.5°	0.0	0.0	57.9	25.9	6.1	6.1	10.6	10.6	12.2	10.6	12.2
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°	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3	3948.3
2.5°	3978.7	3986.4	3957.4	3916.3	3872.1	3827.9	3765.4	3709.1	3675.6	3695.4	3646.6
5°	4050.4	4044.3	3968.1	3843.1	3677.0	3477.5	3279.4	3110.2	3055.3	2973.1	2963.9
7.5°	4149.4	4132.7	3971.1	3684.6	3309.8	2934.9	2569.2	2326.9	2188.3	2070.9	2073.9
10°	4288.1	4239.3	3936.1	3405.8	2788.7	2223.3	1757.0	1437.0	1298.3	1254.1	1219.1
12.5°	4431.4	4336.9	3838.6	3029.4	2171.5	1519.3	1068.2	873.2	787.9	760.4	757.3
15°	4559.3	4410.0	3667.9	2576.9	1578.7	970.7	728.4	664.4	653.7	655.3	653.7
17.5°	4685.9	4468.0	3431.7	2096.8	1072.8	696.4	626.3	611.1	615.7	621.7	620.2
20°	4790.9	4480.1	3130.0	1600.1	758.9	611.1	588.2	585.1	589.8	594.3	594.3
22.5°	4905.3	4489.3	2771.9	1107.9	620.2	568.4	556.2	556.2	562.3	568.4	569.9
25°	4990.6	4439.0	2343.7	795.4	547.1	527.3	521.2	522.7	528.8	531.8	530.3
27.5°	5004.3	4297.3	1889.5	609.6	496.8	477.0	470.9	477.0	469.3	473.9	470.9
30°	5016.5	4117.4	1429.4	513.6	451.1	420.5	411.5	402.3	396.2	388.6	387.0
32.5°	5054.6	3905.6	1043.8	461.7	408.4	374.9	353.5	327.6	307.8	301.7	300.2
35°	5071.3	3651.1	766.5	420.5	370.3	333.7	295.7	259.0	230.1	219.4	227.1
37.5°	5135.4	3404.2	594.3	390.1	336.8	291.0	242.3	196.6	169.1	163.0	166.1
40°	5266.5	3136.1	498.3	364.2	307.8	251.4	192.0	147.8	129.5	123.4	121.9
42.5°	5476.7	2869.4	443.4	339.8	278.8	211.8	150.9	115.8	100.5	96.0	96.0
45°	5732.7	2613.4	405.4	313.9	248.4	170.7	118.9	92.9	83.8	80.7	80.7
47.5°	6069.5	2389.4	373.3	288.0	214.9	135.6	96.0	80.7	74.7	76.2	77.8
50°	6410.8	2223.3	338.3	259.0	176.8	111.3	82.3	71.6	70.1	71.6	71.6
52.5°	6668.3	2125.8	291.0	219.4	138.7	92.9	73.1	67.0	65.5	62.5	62.5
55°	7015.8	2104.5	231.6	178.3	109.7	77.8	65.5	60.9	56.4	53.3	51.8
57.5°	7462.3	2128.8	178.3	138.7	85.3	64.0	57.9	50.3	44.2	38.1	38.1
60°	7739.6	2073.9	138.7	106.6	62.5	51.8	44.2	36.6	29.0	24.4	22.9
62.5°	7651.2	1842.3	109.7	79.2	44.2	38.1	29.0	24.4	16.8	12.2	10.6
65°	7195.6	1487.3	88.4	54.9	32.0	22.9	15.3	15.3	7.6	1.5	0.0
67.5°	6298.1	1101.8	70.1	36.6	18.3	10.6	7.6	4.5	0.0	0.0	0.0
70°	5126.2	795.4	54.9	22.9	10.6	7.6	3.1	1.5	0.0	0.0	0.0
72.5°	3254.9	455.6	42.7	13.7	7.6	3.1	0.0	0.0	0.0	0.0	0.0
75°	1258.7	178.3	29.0	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	356.6	83.8	16.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	92.9	36.6	9.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.2	15.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.9	6.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	1.5	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)