

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: P646836

Luminaire Tested: **GALN-SA3C-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16288 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

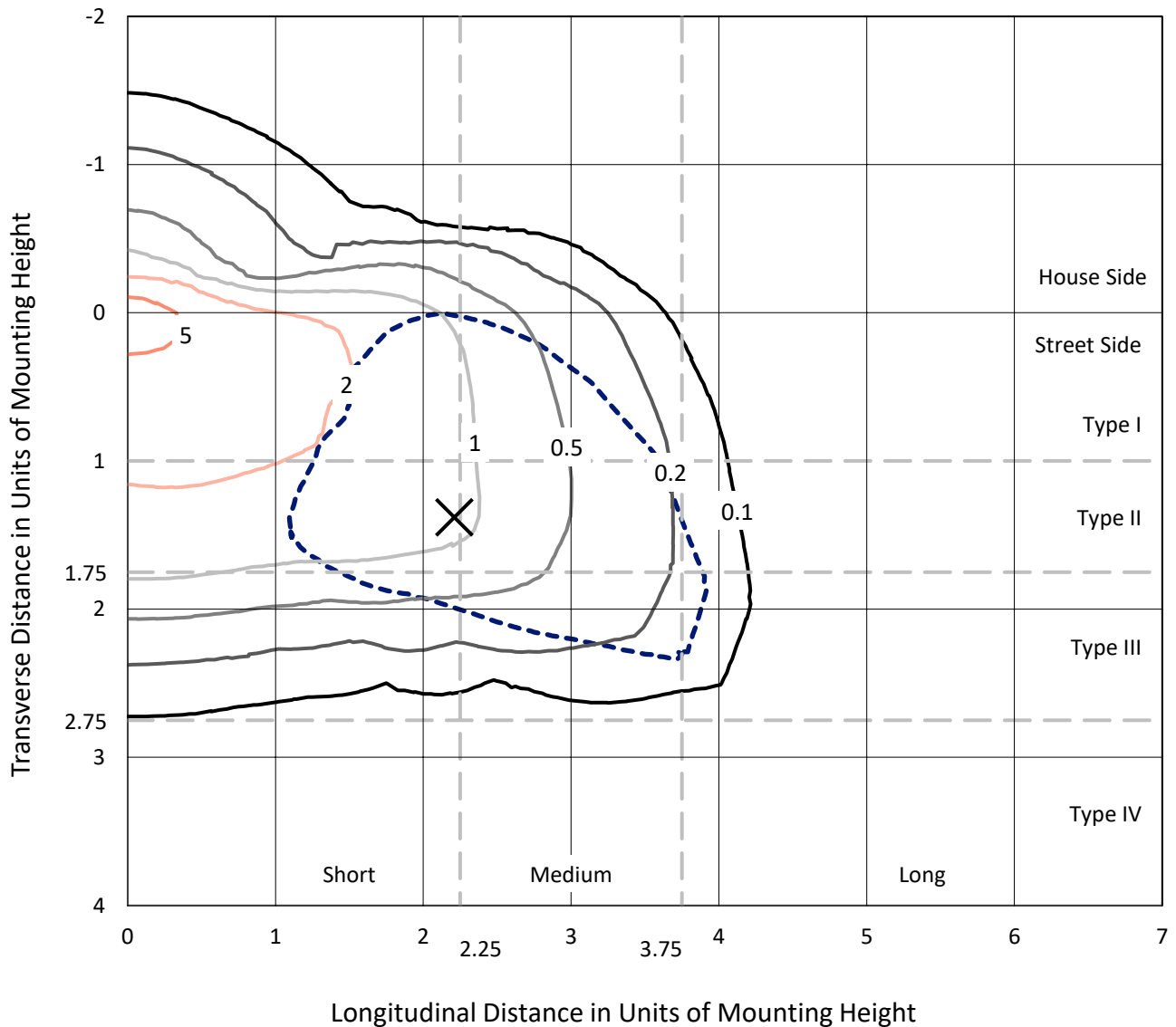
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

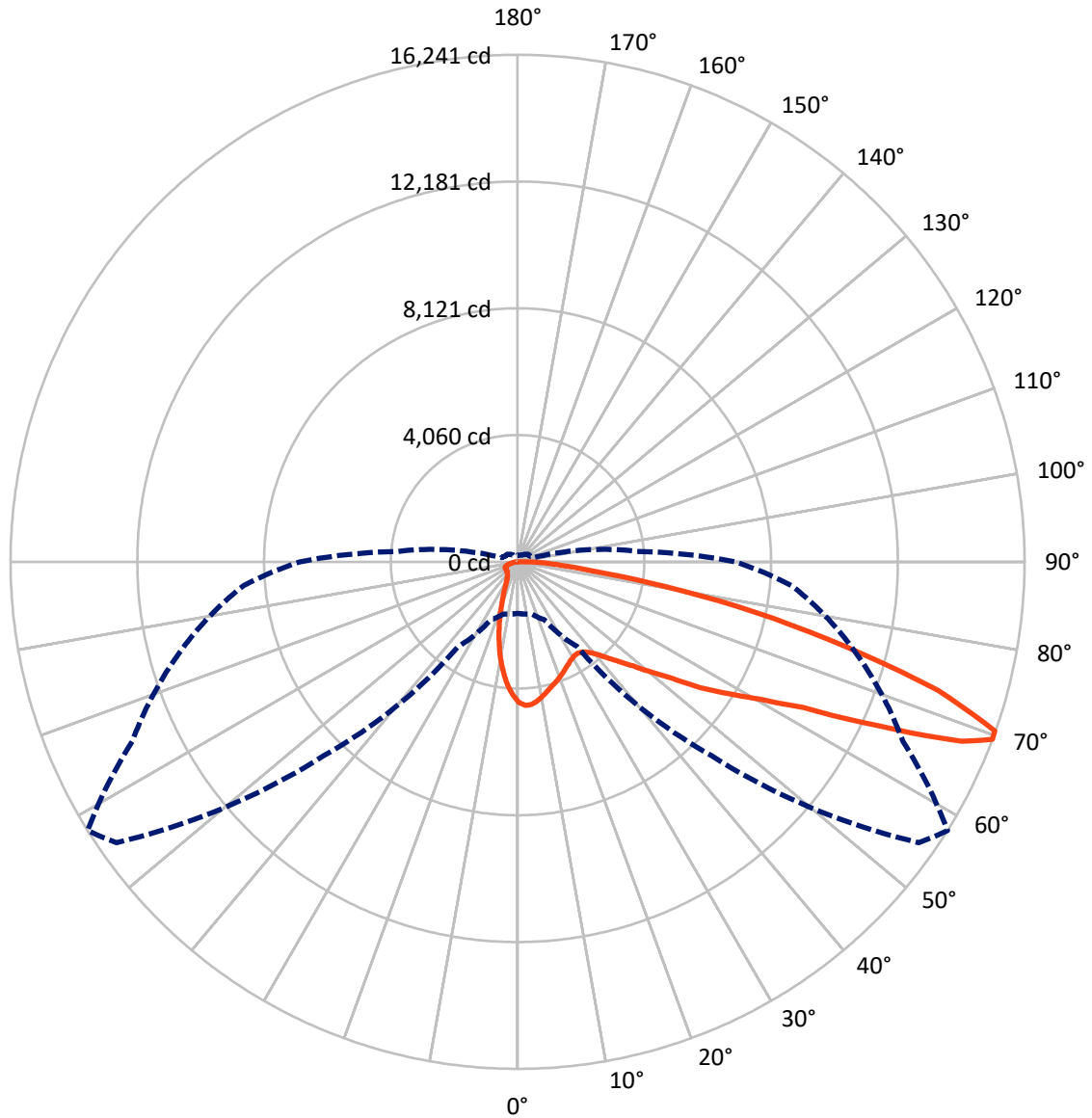
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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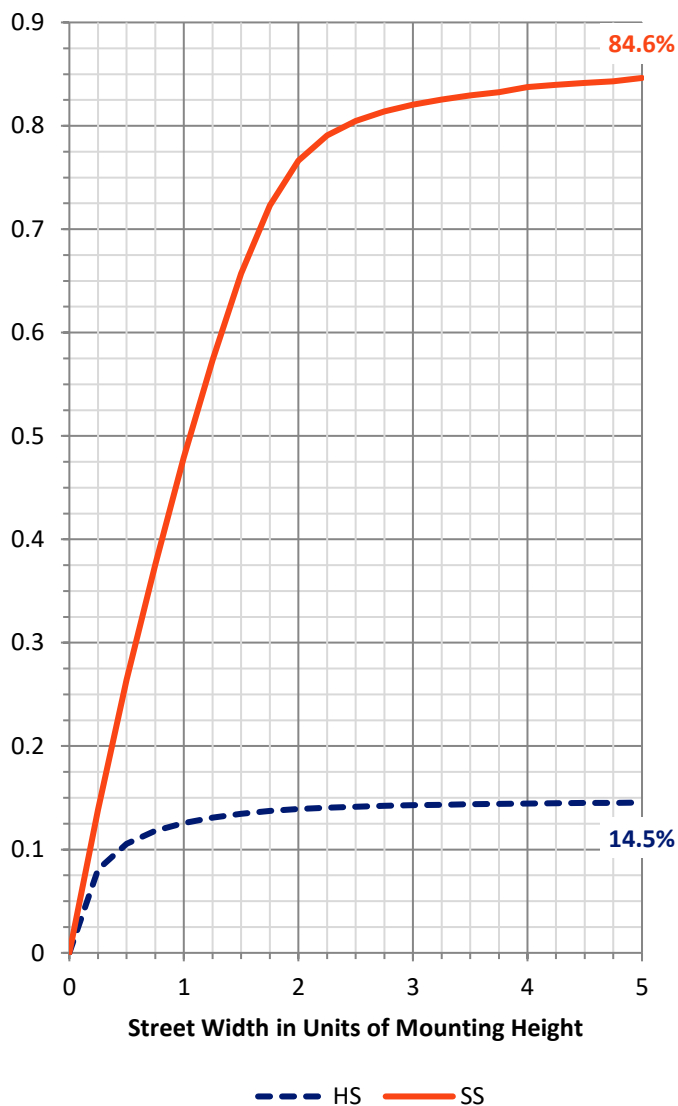
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.0	0.0	2387.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13901.0	0.0	13901.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	16288.0	0.0	16288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	2.3
10°-20°	839.4	5.2
20°-30°	1084.5	6.7
30°-40°	1408.5	8.6
40°-50°	2047.7	12.6
50°-60°	3267.5	20.1
60°-70°	4365.0	26.8
70°-80°	2516.2	15.4
80°-90°	376.9	2.3
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°	16288.0	100.0
0°-180°	16288.0	100.0

Coefficient of Utilization



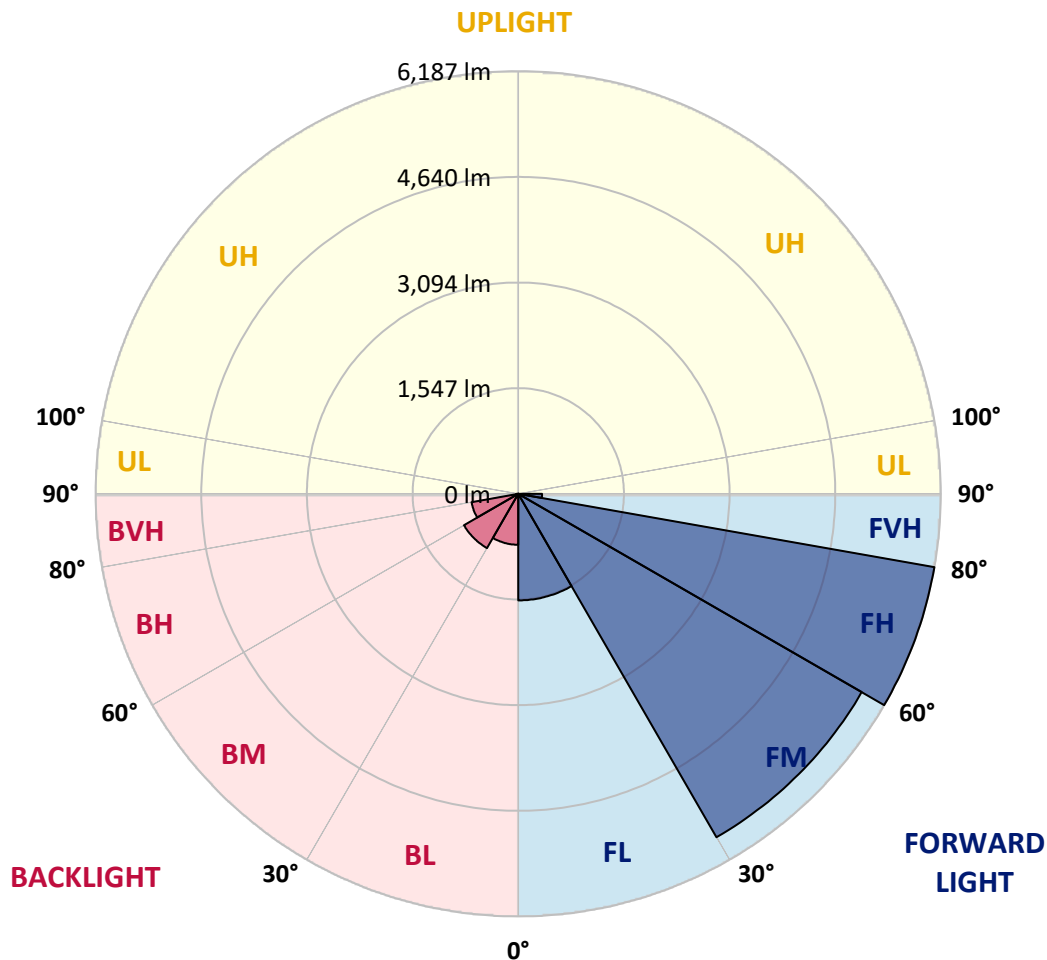
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.0	9.6			
FM (30°-60°)	5805.8	35.6			
FH (60°-80°)	6187.2	38.0			G3/7500
FVH (80°-90°)	348.0	2.1			G3/500
BL (0°-30°)	746.1	4.6	B2/1000		
BM (30°-60°)	918.0	5.6	B1/1000		
BH (60°-80°)	694.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1
2.5°	4668.2	4680.9	4677.3	4672.7	4665.4	4645.5	4612.8	4607.3	4586.4	4541.9	4486.5
5°	4596.4	4607.3	4608.3	4614.6	4623.7	4620.0	4596.4	4593.7	4562.8	4502.9	4410.2
7.5°	4350.3	4364.8	4396.5	4432.0	4463.8	4493.8	4501.1	4505.6	4486.5	4417.5	4293.9
10°	4073.2	4087.7	4102.3	4154.9	4233.1	4307.5	4369.3	4377.5	4382.1	4318.5	4167.7
12.5°	3766.2	3796.1	3827.0	3905.1	4009.6	4126.8	4235.8	4253.0	4283.9	4235.8	4058.7
15°	3505.5	3536.3	3580.8	3650.8	3777.0	3946.0	4099.6	4127.7	4188.6	4164.0	3956.9
17.5°	3324.7	3335.6	3366.4	3446.4	3582.7	3760.7	3966.0	4022.3	4119.5	4113.2	3869.7
20°	3182.0	3195.7	3214.8	3263.9	3405.5	3593.6	3841.6	3914.2	4045.9	4067.8	3783.5
22.5°	3122.1	3132.1	3129.4	3155.7	3252.0	3441.0	3715.3	3801.6	3980.5	4036.8	3703.5
25°	3125.7	3134.8	3121.2	3114.9	3172.1	3306.5	3583.6	3693.5	3927.8	4015.9	3630.8
27.5°	3186.6	3193.0	3167.5	3142.1	3146.6	3222.9	3474.6	3596.3	3883.4	4025.0	3569.9
30°	3268.4	3280.1	3263.9	3232.9	3199.3	3202.9	3404.6	3524.5	3862.5	4056.9	3540.9
32.5°	3373.7	3384.7	3377.4	3352.8	3309.3	3261.1	3387.3	3498.2	3864.3	4121.3	3534.5
35°	3484.6	3506.4	3518.2	3516.4	3480.9	3397.4	3455.5	3547.2	3907.9	4229.5	3571.7
37.5°	3609.9	3628.1	3678.9	3711.7	3678.9	3581.8	3609.0	3672.6	4004.2	4385.7	3653.6
40°	3731.6	3758.9	3833.4	3935.1	3922.4	3837.0	3843.4	3885.2	4174.0	4618.2	3813.4
42.5°	3858.8	3891.5	4021.4	4172.2	4202.2	4135.9	4153.1	4190.4	4415.7	4940.7	4087.7
45°	4022.3	4061.4	4221.2	4409.3	4527.4	4486.5	4535.5	4553.7	4739.0	5360.3	4449.2
47.5°	4233.1	4278.5	4475.6	4710.0	4877.1	4914.3	4999.8	4988.8	5139.6	5857.2	4918.0
50°	4588.2	4613.7	4799.9	5038.8	5268.7	5436.7	5529.3	5546.6	5636.5	6340.5	5442.2
52.5°	5010.7	5033.4	5167.8	5376.7	5664.7	6020.8	6249.7	6193.4	6215.1	6929.2	6055.3
55°	5485.7	5523.9	5609.3	5748.2	6121.6	6645.7	7105.4	7119.0	6877.4	7492.4	6643.0
57.5°	5853.6	5918.1	6064.3	6262.4	6735.7	7340.6	7958.3	7967.4	7658.6	8093.7	7291.6
60°	5668.3	5744.6	6078.9	6561.2	7541.4	8553.3	8977.6	8925.8	8418.9	8778.6	8082.8
62.5°	4868.9	4882.6	5368.6	6122.5	7789.4	10175.7	10494.5	10275.6	9433.6	9647.0	8886.7
65°	3151.2	3240.2	3625.4	4681.8	6974.6	11075.9	13152.5	12646.5	10856.1	10632.6	9559.8
67.5°	1989.4	1966.7	2126.5	2673.4	4797.2	10282.9	15420.7	15340.8	12716.5	11254.8	9399.1
69°	1649.6	1675.1	1729.6	2049.3	3301.0	8779.5	15688.7	16241.0	13618.5	11205.8	8814.9
70°	1496.1	1507.9	1565.1	1816.8	2547.1	7353.4	15249.0	16216.5	13972.8	11000.5	8391.6
72.5°	1187.3	1186.3	1284.4	1511.6	1903.9	4197.7	12521.2	14079.0	13576.7	10044.9	6933.7
75°	902.0	916.6	1024.6	1279.0	1754.1	2293.6	8737.7	10842.4	10843.4	7933.8	4326.6
77.5°	650.4	659.5	785.7	1073.7	1652.4	1859.5	5820.0	7776.7	7310.6	3635.3	1359.8
80°	426.0	431.5	527.7	850.3	1489.7	1754.1	3450.9	4759.9	3448.3	964.7	449.7
82.5°	233.5	260.7	322.4	550.4	1195.4	1620.6	2097.4	2409.1	1293.5	429.6	234.4
85°	117.2	124.4	181.7	321.6	781.2	1340.8	1460.7	1381.7	667.7	213.4	121.8
87.5°	34.5	43.6	75.4	124.4	317.0	698.5	813.0	729.4	257.1	77.2	25.4
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°	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1	4501.1
2.5°	4463.8	4447.4	4374.8	4309.4	4249.4	4185.8	4132.2	4085.0	4089.5	4090.5	4042.3
5°	4362.1	4324.8	4186.7	4057.7	3948.7	3810.7	3692.5	3616.3	3578.2	3527.3	3545.4
7.5°	4224.0	4152.2	3960.6	3746.2	3545.4	3366.4	3172.1	3038.5	2953.2	2870.5	2881.4
10°	4081.4	3966.0	3687.1	3403.7	3143.9	2857.8	2609.8	2397.2	2239.1	2180.1	2141.0
12.5°	3935.1	3783.5	3429.1	3052.1	2693.4	2350.9	1999.4	1771.4	1596.9	1504.3	1516.1
15°	3801.6	3617.1	3160.3	2700.6	2234.6	1826.7	1476.1	1259.0	1137.3	1111.9	1126.4
17.5°	3678.1	3436.4	2908.6	2359.1	1814.9	1369.9	1109.1	986.5	937.5	923.9	922.9
20°	3550.9	3282.9	2626.1	1993.9	1414.3	1061.9	910.2	853.0	843.9	849.3	850.3
22.5°	3421.9	3093.1	2335.5	1631.5	1126.4	868.4	795.8	780.3	787.5	800.3	802.1
25°	3302.9	2925.9	2055.7	1313.6	899.3	763.0	727.6	727.6	743.9	763.0	764.0
27.5°	3204.7	2764.2	1776.8	1042.8	753.0	686.8	674.9	681.3	704.0	718.6	719.4
30°	3123.9	2613.4	1513.4	835.7	662.2	625.9	623.2	634.1	650.4	664.1	664.9
32.5°	3063.1	2480.8	1267.2	702.2	599.5	579.6	578.6	586.8	595.9	599.5	603.1
35°	3039.4	2370.8	1041.9	617.7	557.7	545.0	545.0	544.1	547.8	549.6	551.4
37.5°	3058.6	2286.4	867.5	563.2	526.9	517.8	512.3	506.9	505.0	505.0	506.0
40°	3139.4	2241.9	737.6	527.7	505.0	491.4	481.5	475.0	468.7	470.5	472.4
42.5°	3311.1	2250.0	649.5	504.2	486.0	466.9	452.3	445.1	440.6	446.0	445.1
45°	3584.5	2331.9	593.2	487.8	466.9	442.4	428.8	421.5	421.5	429.6	432.4
47.5°	3966.9	2488.1	563.2	475.0	452.3	423.3	409.7	404.3	406.1	419.7	420.5
50°	4433.8	2759.7	557.7	468.7	445.1	409.7	394.2	388.8	393.3	407.9	409.7
52.5°	4948.9	3109.4	584.1	469.6	438.7	401.5	381.6	373.3	377.9	389.7	393.3
55°	5559.3	3547.2	652.2	473.2	429.6	397.0	372.5	354.3	359.7	367.9	368.8
57.5°	6182.5	4099.6	772.1	474.2	422.4	388.8	357.0	333.4	333.4	338.8	341.5
60°	6943.7	4700.9	930.2	475.0	423.3	377.0	336.1	309.8	306.2	308.8	309.8
62.5°	7699.5	5204.1	956.5	472.4	432.4	365.2	313.4	286.1	279.8	278.9	277.0
65°	8032.8	5110.6	783.9	459.6	442.4	357.9	295.2	263.4	252.5	248.9	248.9
67.5°	7489.6	4323.0	589.5	442.4	436.1	350.6	278.0	244.4	231.6	224.4	224.4
69°	6979.1	3845.2	529.6	430.6	419.7	338.8	267.1	234.4	218.9	210.8	208.0
70°	6584.9	3516.4	504.2	420.5	404.3	325.2	258.9	227.1	209.8	200.8	199.0
72.5°	5255.0	2758.7	441.5	382.4	344.3	273.4	229.8	204.4	188.0	178.1	175.3
75°	3028.6	1495.2	366.1	332.5	277.0	212.6	194.4	178.1	165.3	156.2	153.5
77.5°	932.0	577.7	265.3	262.5	203.5	164.4	155.3	149.0	139.9	129.9	128.1
80°	392.4	294.3	179.9	177.1	135.4	114.5	111.7	110.8	107.2	99.0	96.3
82.5°	215.3	166.2	125.4	109.0	81.7	66.3	69.1	69.9	67.2	59.0	53.6
85°	105.4	90.8	60.8	49.0	37.3	23.6	22.7	27.2	25.4	18.2	20.0
87.5°	20.9	25.4	16.4	7.3	3.6	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)