

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: P646914

Luminaire Tested: **GALN-SA4C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13244.4 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

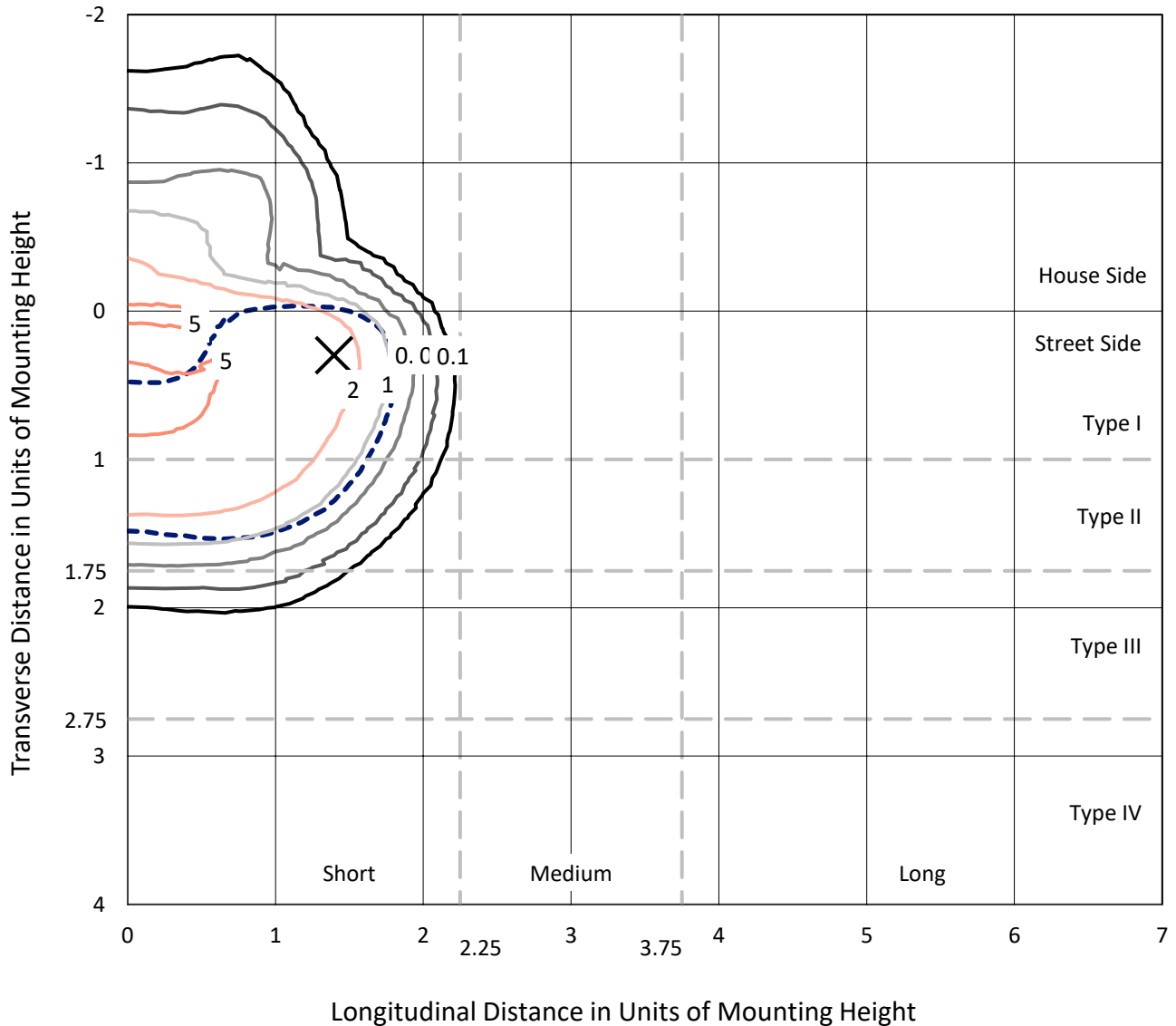
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

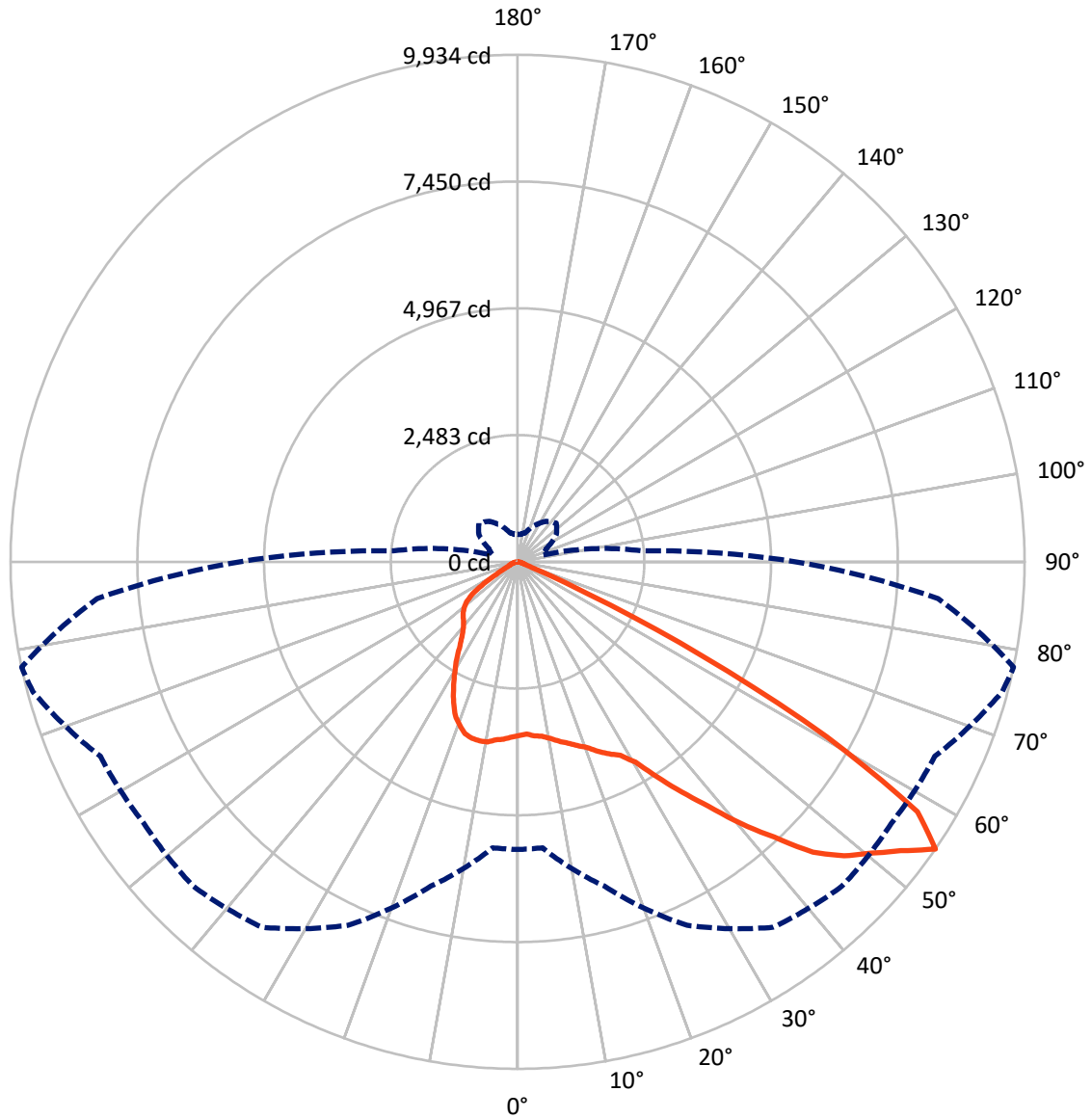
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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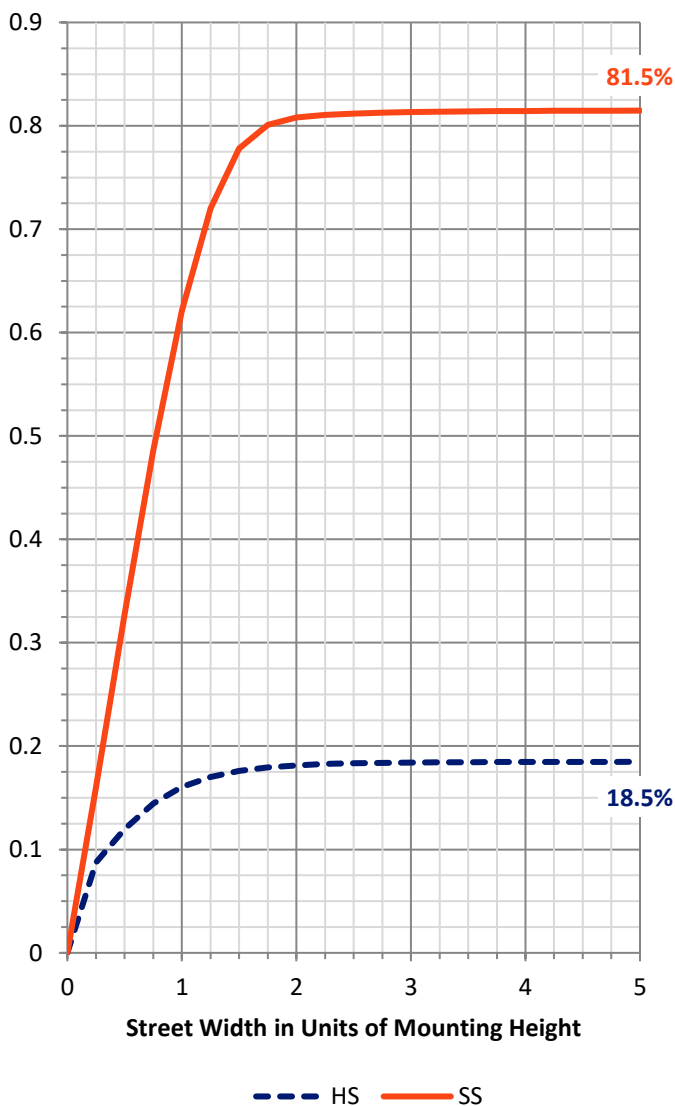
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2460.0	0.0	2460.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10784.4	0.0	10784.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	13244.4	0.0	13244.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	2.3
10°-20°	803.6	6.1
20°-30°	1408.5	10.6
30°-40°	2322.5	17.5
40°-50°	3379.5	25.5
50°-60°	3829.3	28.9
60°-70°	1094.9	8.3
70°-80°	85.0	0.6
80°-90°	17.7	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°	13244.4	100.0
0°-180°	13244.4	100.0

Coefficient of Utilization



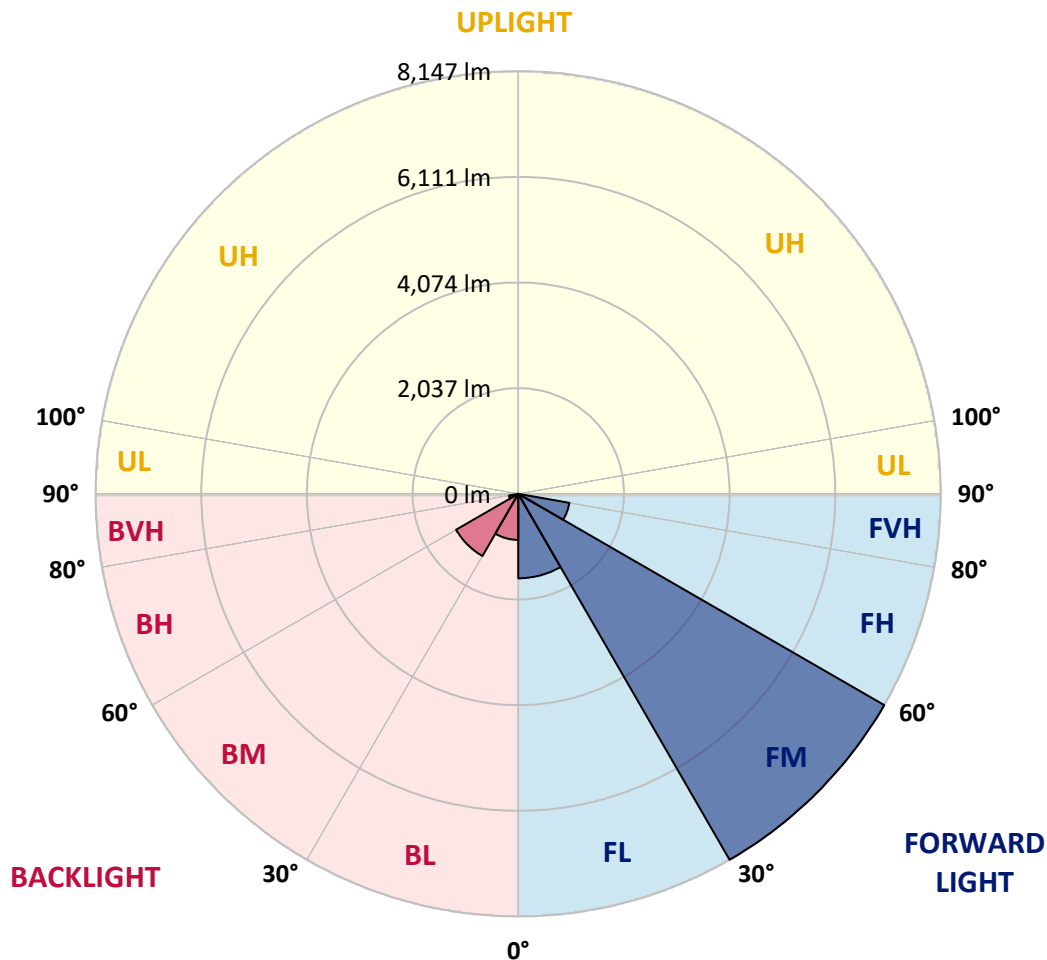
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.1	12.3			
FM (30°-60°)	8147.4	61.5			
FH (60°-80°)	1000.3	7.6			G1/1800
FVH (80°-90°)	8.6	0.1			G0/10
BL (0°-30°)	887.6	6.7	B2/1000		
BM (30°-60°)	1383.8	10.4	B2/2500		
BH (60°-80°)	179.6	1.4	B1/500		G1/500
BVH (80°-90°)	9.1	0.1			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°	55°	65°	75°	78°	85°
0°	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2
2.5°	3201.5	3232.3	3237.0	3274.9	3272.5	3336.5	3355.4	3357.8	3400.4	3379.1	3433.5
5°	3111.6	3095.0	3087.8	3154.2	3173.1	3230.0	3277.2	3305.7	3393.3	3424.1	3480.9
7.5°	3031.0	3031.0	3035.8	3095.0	3087.8	3161.3	3211.0	3298.6	3426.5	3452.5	3521.2
10°	2952.8	2924.4	2960.0	3021.5	3073.7	3106.8	3211.0	3293.8	3443.0	3518.8	3613.5
12.5°	2912.6	2926.9	2931.6	2976.6	3033.4	3132.9	3189.7	3327.0	3561.5	3606.4	3708.3
15°	3166.0	3137.6	3068.9	3028.6	3076.0	3123.4	3265.4	3405.2	3623.0	3686.9	3800.6
17.5°	3459.6	3436.0	3379.1	3270.2	3163.6	3251.3	3362.5	3490.4	3689.3	3784.0	3952.2
20°	3843.2	3805.4	3748.5	3535.4	3443.0	3348.3	3466.7	3618.2	3798.3	3883.5	4056.3
22.5°	4300.2	4300.2	4172.4	3914.3	3722.5	3632.5	3682.2	3769.8	3919.0	4035.0	4205.5
25°	4776.2	4762.0	4646.0	4378.4	4054.0	3947.4	4004.3	4065.8	4106.1	4170.0	4283.6
27.5°	5320.9	5238.0	5091.1	4795.2	4508.7	4302.6	4364.2	4309.7	4260.0	4293.1	4456.5
30°	5690.2	5742.4	5555.3	5271.2	5001.2	4771.4	4783.3	4736.0	4508.7	4556.0	4653.1
32.5°	6073.9	6107.0	6002.8	5846.5	5576.6	5309.0	5212.0	5171.6	5001.2	5022.5	4927.7
35°	6393.5	6457.5	6365.2	6296.5	6218.4	6002.8	5735.2	5865.5	5590.8	5538.7	5292.5
37.5°	6687.2	6668.3	6777.2	6706.1	6689.6	6538.0	6244.3	6270.4	6085.7	6073.9	5789.7
40°	6950.0	6954.8	7103.9	7137.1	7070.8	6800.8	6374.6	6580.6	6729.8	6744.0	6379.3
42.5°	7167.9	7231.8	7359.7	7627.3	7527.8	7077.9	6509.5	6734.5	7288.6	7376.3	6938.2
45°	7357.3	7487.5	7646.2	7885.4	7828.5	7471.0	6845.8	7051.9	7885.4	8115.1	7463.9
47.5°	7369.1	7539.7	7712.5	8067.7	8138.7	7681.7	7193.9	7553.8	8359.0	8607.6	7847.5
50°	7321.8	7411.8	7757.5	8143.5	8304.5	8025.0	7681.7	7975.3	8818.4	8974.7	8041.6
52.5°	6760.6	6829.2	7523.1	8214.5	8602.9	8413.4	8328.2	8562.7	9287.2	9403.3	8224.0
55°	5635.8	5624.0	6578.2	7856.9	8740.2	8988.8	8936.8	9019.6	9829.5	9933.7	8268.9
57.5°	3855.1	4070.6	4894.6	6542.7	7899.6	8853.9	8908.3	8771.0	9197.2	9237.5	7208.1
60°	2079.1	2169.1	2832.1	4366.6	6014.7	7215.3	7357.3	7108.7	7075.5	6961.9	5145.6
62.5°	826.5	871.4	1247.9	2161.9	3277.2	4385.5	4691.0	4589.2	4371.3	4072.9	2664.0
65°	393.1	421.5	620.4	1011.2	1454.0	1828.1	2133.5	2228.3	1643.4	1479.9	878.5
67.5°	267.6	288.9	452.3	577.8	518.6	542.3	705.6	655.9	386.0	329.2	243.9
70°	203.7	217.8	362.3	393.1	232.1	163.4	182.4	170.5	158.6	161.0	158.6
72.5°	144.5	156.3	265.2	232.1	101.8	75.8	97.1	116.0	116.0	116.0	113.7
75°	87.6	99.4	153.9	90.0	40.2	40.2	61.5	78.1	82.8	85.3	80.5
77.5°	45.0	56.8	52.1	26.1	26.1	30.8	45.0	54.5	59.2	59.2	56.8
80°	9.5	9.5	9.5	14.2	26.1	33.1	45.0	49.7	56.8	56.8	52.1
82.5°	0.0	2.3	7.1	14.2	23.6	30.8	42.6	49.7	56.8	59.2	54.5
85°	0.0	2.3	4.7	9.5	16.6	18.9	16.6	14.2	14.2	14.2	14.2
87.5°	0.0	0.0	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2	3405.2
2.5°	3438.3	3445.4	3433.5	3431.2	3421.7	3450.1	3381.5	3364.9	3407.5	3367.3	3376.8
5°	3483.3	3499.9	3478.6	3443.0	3390.9	3310.4	3241.8	3151.8	3109.1	3078.4	3073.7
7.5°	3516.5	3528.3	3507.0	3393.3	3237.0	3033.4	2881.8	2770.6	2682.9	2656.9	2614.3
10°	3651.4	3653.8	3547.2	3296.2	2990.7	2723.2	2491.1	2320.7	2233.0	2178.5	2154.9
12.5°	3741.4	3736.6	3521.2	3104.4	2697.1	2342.0	2076.8	1870.7	1790.2	1764.2	1747.6
15°	3855.1	3829.0	3459.6	2907.9	2318.2	1934.6	1695.5	1553.4	1546.3	1529.7	1546.3
17.5°	3945.1	3871.6	3369.6	2550.3	1955.9	1593.6	1437.4	1446.8	1465.8	1482.4	1484.7
20°	4091.9	3940.3	3163.6	2237.7	1619.7	1366.3	1364.0	1406.6	1454.0	1472.9	1491.8
22.5°	4203.1	3968.7	2943.4	1903.9	1345.0	1273.9	1314.3	1378.2	1413.7	1432.7	1461.1
25°	4243.4	3890.6	2649.8	1570.0	1212.4	1231.3	1292.9	1335.6	1380.5	1401.8	1390.0
27.5°	4283.6	3850.3	2299.3	1292.9	1141.4	1202.9	1255.0	1297.7	1311.8	1340.3	1359.2
30°	4380.7	3710.6	1984.4	1117.7	1105.8	1184.0	1221.9	1236.1	1273.9	1290.5	1290.5
32.5°	4458.9	3656.1	1650.5	1034.8	1101.1	1193.4	1198.2	1198.2	1202.9	1191.1	1186.3
35°	4619.9	3469.1	1352.1	985.1	1098.7	1195.8	1207.7	1167.5	1058.5	1015.9	1004.0
37.5°	4818.8	3348.3	1131.9	973.3	1115.3	1224.2	1243.2	1091.7	949.5	880.9	869.1
40°	5060.4	3263.1	987.4	968.5	1153.2	1290.5	1233.7	1032.5	847.8	748.3	743.5
42.5°	5342.2	3184.9	890.3	966.1	1200.6	1359.2	1224.2	982.7	743.5	677.2	686.7
45°	5567.1	3142.3	824.0	949.5	1217.2	1399.5	1231.3	895.1	700.9	658.3	663.0
47.5°	5742.4	3052.3	769.6	921.1	1214.7	1413.7	1167.5	859.6	679.6	691.5	703.3
50°	5747.1	2931.6	700.9	859.6	1179.3	1387.6	1094.0	826.5	674.9	724.6	748.3
52.5°	5683.2	2761.1	627.5	772.0	1096.4	1297.7	1027.7	812.2	653.6	648.8	677.2
55°	5455.8	2441.4	504.4	625.1	925.9	1070.4	968.5	786.1	589.6	535.2	539.9
57.5°	4409.2	1749.9	371.8	447.6	655.9	783.8	873.7	774.3	530.4	454.7	457.0
60°	2730.2	992.2	272.3	305.4	404.9	476.0	708.0	719.9	473.6	383.6	378.9
62.5°	1401.8	490.2	210.8	215.5	248.6	279.5	485.5	603.8	428.6	364.6	364.6
65°	468.9	241.6	184.7	165.8	165.8	172.9	293.6	419.1	362.3	305.4	305.4
67.5°	201.3	179.9	161.0	144.5	132.6	125.5	165.8	243.9	270.0	232.1	222.6
70°	156.3	151.6	139.7	120.7	104.2	94.7	97.1	125.5	153.9	149.2	144.5
72.5°	116.0	116.0	111.3	94.7	80.5	68.7	64.0	66.3	73.4	75.8	78.1
75°	80.5	82.8	82.8	73.4	59.2	49.7	42.6	35.5	28.4	23.6	21.3
77.5°	54.5	56.8	61.5	54.5	45.0	33.1	26.1	18.9	11.8	4.7	4.7
80°	47.4	54.5	59.2	54.5	47.4	35.5	26.1	14.2	7.1	0.0	0.0
82.5°	49.7	54.5	61.5	52.1	45.0	33.1	26.1	16.6	7.1	2.3	0.0
85°	11.8	11.8	14.2	16.6	21.3	23.6	18.9	11.8	7.1	2.3	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	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)