

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: P647021

Luminaire Tested: **GALN-SA6C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19493.6 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

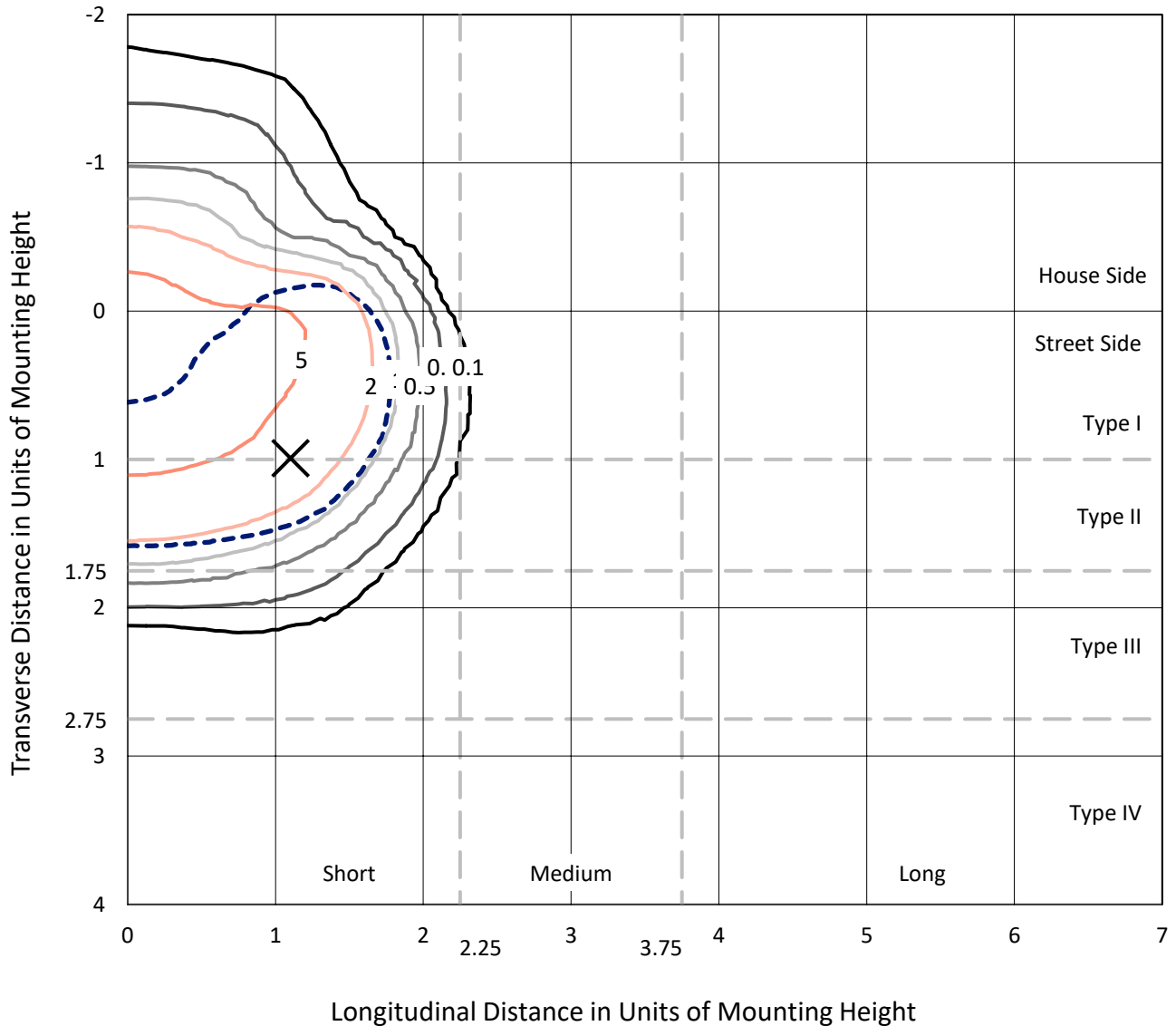
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

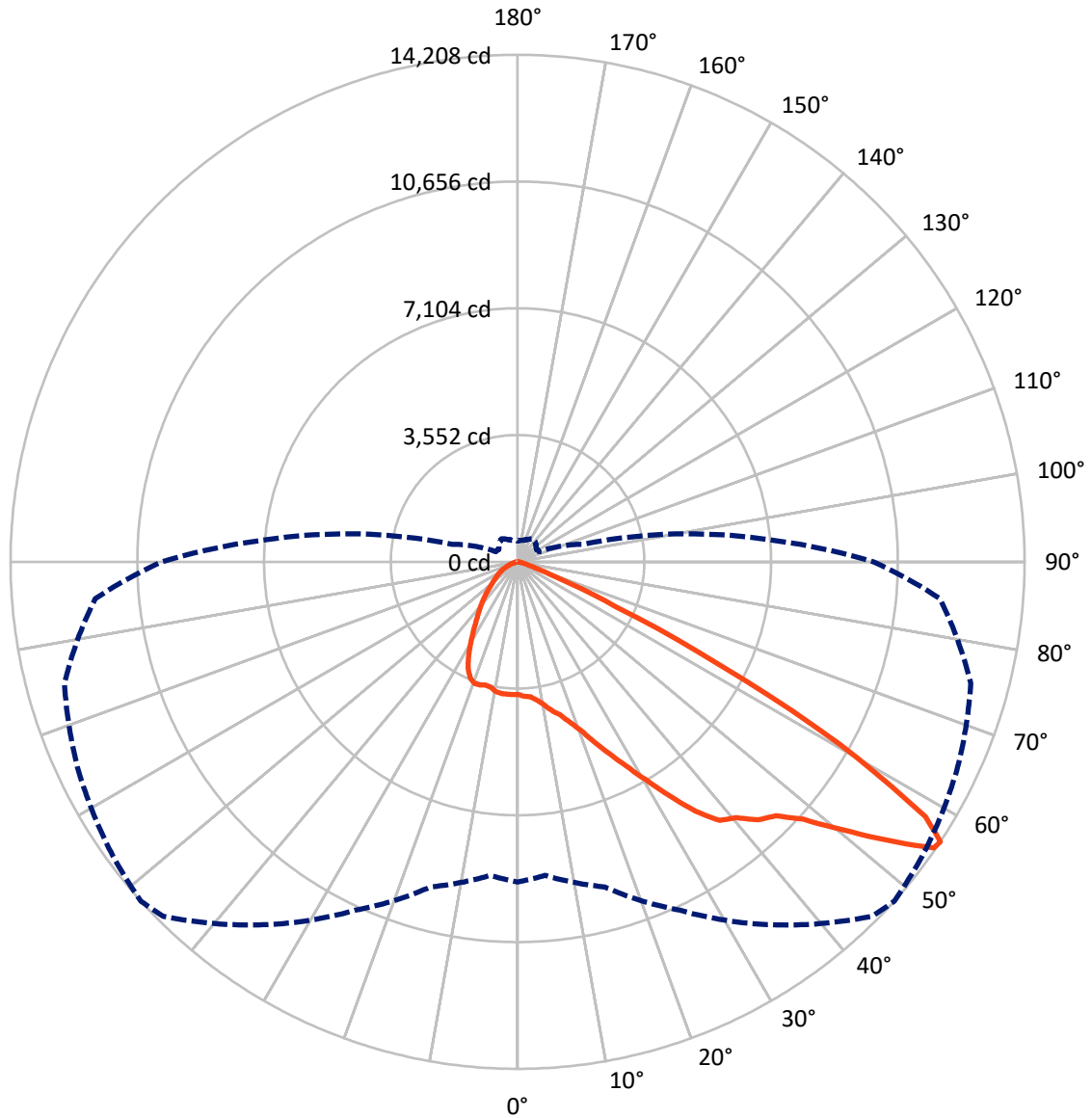
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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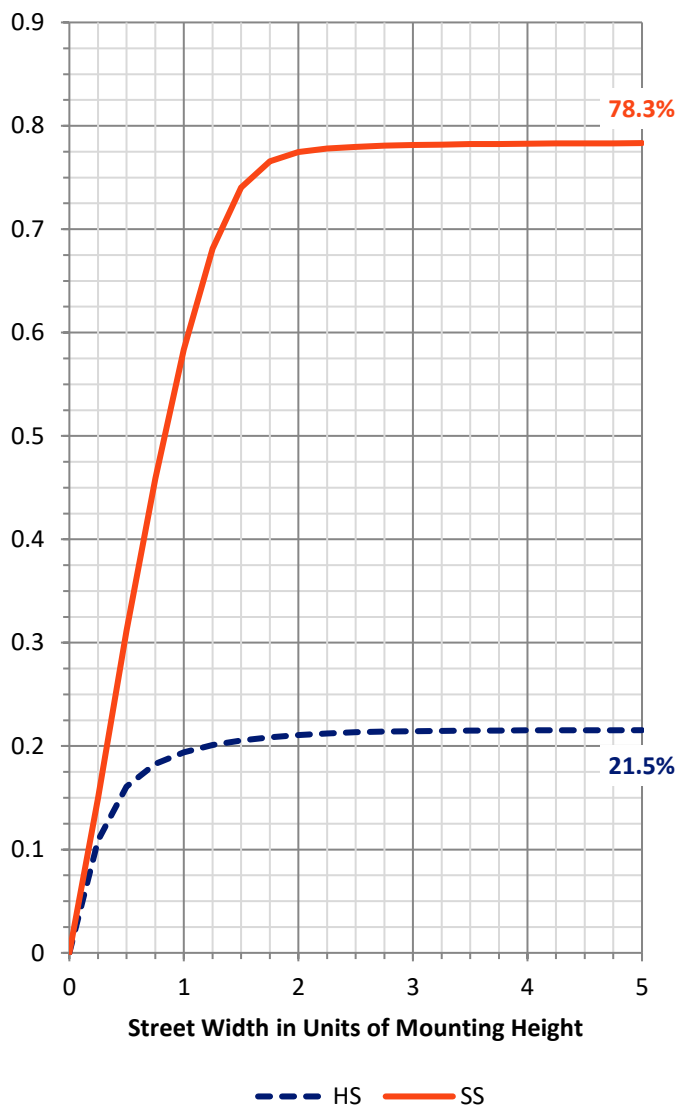
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4239.5	0.0	4239.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	15254.1	0.0	15254.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	19493.6	0.0	19493.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	1.9
10°-20°	1159.1	5.9
20°-30°	2102.4	10.8
30°-40°	3302.4	16.9
40°-50°	4817.6	24.7
50°-60°	5804.2	29.8
60°-70°	1699.4	8.7
70°-80°	215.6	1.1
80°-90°	30.2	0.2
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°	19493.6	100.0
0°-180°	19493.6	100.0

Coefficient of Utilization



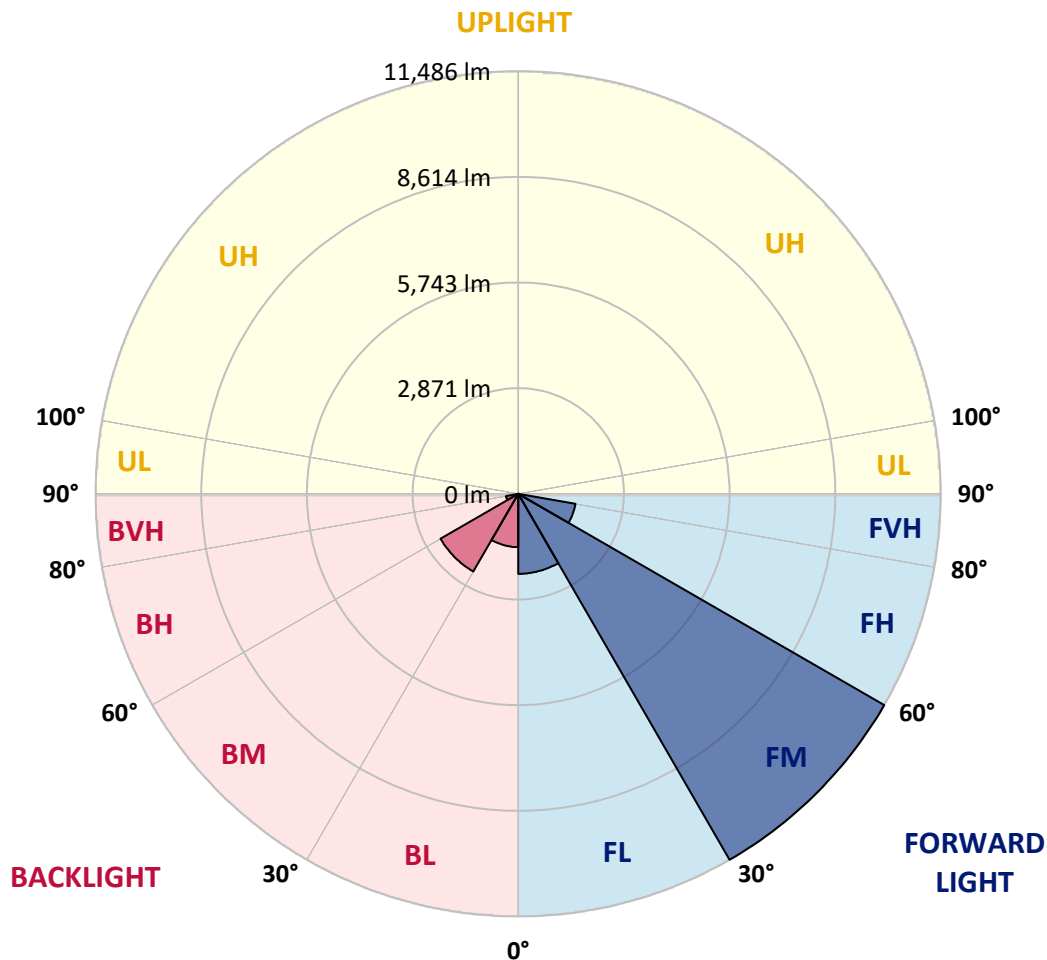
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.1	11.2			
FM (30°-60°)	11485.7	58.9			
FH (60°-80°)	1578.2	8.1			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	1449.0	7.4	B3/2500		
BM (30°-60°)	2438.5	12.5	B2/2500		
BH (60°-80°)	336.9	1.7	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2
2.5°	3790.7	3773.0	3773.0	3744.5	3776.5	3762.3	3773.0	3737.5	3773.0	3719.7	3762.3
5°	3808.4	3812.0	3797.8	3815.6	3815.6	3836.9	3801.4	3833.3	3851.0	3812.0	3794.3
7.5°	3900.7	3907.9	3904.3	3890.1	3918.5	3914.9	3911.4	3886.6	3893.6	3879.5	3858.2
10°	4081.8	4078.2	4096.0	4060.5	4039.2	4064.0	4071.1	4032.1	4003.7	3993.1	3925.6
12.5°	4344.4	4301.8	4277.0	4241.5	4252.2	4216.6	4280.5	4213.1	4198.9	4135.0	4067.6
15°	4557.4	4550.2	4553.8	4497.0	4433.2	4447.4	4447.4	4411.9	4390.6	4312.5	4216.6
17.5°	4994.0	4844.9	4876.8	4805.8	4752.6	4749.1	4717.1	4724.2	4667.4	4504.1	4358.6
20°	5334.7	5270.8	5221.1	5100.5	5018.8	5043.6	5029.4	4994.0	4976.2	4763.2	4557.4
22.5°	5639.9	5661.2	5579.6	5547.6	5434.1	5444.7	5473.1	5441.1	5306.3	5086.2	4781.0
25°	6069.4	6044.5	5934.5	5895.5	5789.0	5828.0	5938.1	5913.2	5828.0	5430.5	4954.9
27.5°	6577.0	6491.8	6513.1	6335.6	6232.7	6342.7	6474.0	6598.3	6356.9	5835.2	5160.8
30°	6935.4	6846.7	6839.6	6832.5	6807.6	6935.4	7088.1	7201.6	7006.4	6239.8	5501.5
32.5°	7112.9	7134.2	7194.5	7173.3	7389.8	7652.4	7812.1	7975.4	7730.5	6900.0	5952.3
35°	7585.0	7450.1	7585.0	7599.2	7822.8	8380.1	8582.4	8972.8	8912.4	7833.4	6502.4
37.5°	7861.9	7851.2	7868.9	8003.8	8220.3	8908.9	9196.4	9498.1	9384.5	8394.2	7187.5
40°	8319.7	8348.1	8344.5	8447.5	8685.3	9306.4	9423.6	9668.5	9679.1	9171.5	8195.5
42.5°	9054.5	8940.8	8866.3	8972.8	9306.4	9650.7	9885.0	9835.3	10186.7	10115.7	9491.0
45°	9714.6	9782.0	9672.0	9849.5	9970.2	10154.7	10147.6	10254.1	10701.3	11038.5	10467.1
47.5°	10332.2	10374.8	10428.0	10548.7	10811.4	10839.8	10779.4	10733.3	11350.8	11698.7	11223.1
50°	10701.3	10740.3	10988.9	11205.4	11695.1	11759.0	11794.6	11677.4	12096.3	12135.2	11936.5
52.5°	10602.0	10644.6	10992.4	11705.8	12486.7	13072.3	12965.9	12767.0	12742.2	12894.8	12596.7
55°	9721.7	9682.7	10161.9	11272.8	12735.1	14140.7	14154.8	13945.5	13544.3	13441.4	12497.3
56°	8972.8	8820.2	9430.7	10772.3	12415.6	14048.4	14208.1	13984.5	13608.2	13146.8	11883.3
57.5°	7350.7	7496.3	8103.2	9214.1	11311.8	13384.7	13476.9	13423.7	13139.8	12366.0	10456.4
60°	4053.4	4308.9	4844.9	6204.3	8053.5	10271.9	10346.4	10779.4	10832.6	9469.7	7194.5
62.5°	1721.4	1693.1	2250.3	3251.3	4585.8	6200.7	6339.2	6782.8	6864.5	5458.9	3609.7
65°	699.2	738.3	1018.7	1636.2	2424.2	2825.3	3020.5	3166.1	3435.8	2253.9	1331.0
67.5°	461.4	457.9	599.9	933.5	1306.2	1260.0	1260.0	1331.0	1231.7	919.3	575.0
70°	330.1	340.8	429.5	646.0	812.8	603.4	578.6	553.7	628.2	606.9	464.9
72.5°	216.5	230.7	287.5	386.9	422.4	330.1	330.1	397.5	518.2	489.8	379.8
75°	142.0	145.6	177.5	223.6	209.4	170.4	188.2	266.2	376.2	362.1	269.7
77.5°	95.8	99.4	120.7	145.6	117.1	95.8	103.0	134.9	184.6	184.6	142.0
80°	35.5	39.1	49.7	46.1	53.2	67.4	74.5	92.3	110.0	110.0	95.8
82.5°	0.0	3.5	10.6	24.8	39.1	53.2	60.4	71.0	81.7	92.3	88.7
85°	0.0	3.5	10.6	17.8	28.4	31.9	35.5	24.8	21.3	21.3	17.8
87.5°	0.0	0.0	3.5	3.5	3.5	3.5	3.5	3.5	7.1	3.5	3.5
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°	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2	3723.2
2.5°	3723.2	3719.7	3719.7	3709.1	3730.4	3719.7	3726.8	3723.2	3677.1	3712.6	3687.8
5°	3762.3	3787.1	3748.1	3741.0	3712.6	3723.2	3723.2	3687.8	3719.7	3716.2	3709.1
7.5°	3861.7	3819.1	3776.5	3733.9	3726.8	3716.2	3677.1	3663.0	3687.8	3659.4	3701.9
10°	3904.3	3911.4	3847.5	3790.7	3737.5	3663.0	3609.7	3577.8	3538.7	3581.3	3606.2
12.5°	4099.5	4028.5	3918.5	3829.7	3648.8	3574.2	3521.0	3506.7	3574.2	3588.4	3563.6
15°	4167.0	4156.3	4014.4	3815.6	3627.5	3538.7	3549.3	3521.0	3528.0	3492.6	3499.7
17.5°	4305.4	4184.7	4017.9	3769.4	3623.9	3602.6	3538.7	3425.2	3361.3	3332.8	3357.7
20°	4458.0	4340.9	4099.5	3787.1	3655.8	3599.1	3389.6	3251.3	3119.9	3048.9	3052.4
22.5°	4592.8	4447.4	4064.0	3794.3	3684.2	3450.0	3198.0	2924.7	2761.4	2651.4	2654.9
25°	4756.2	4550.2	4078.2	3808.4	3609.7	3212.2	2850.1	2583.9	2388.7	2314.2	2339.1
27.5°	4848.4	4614.1	4156.3	3840.4	3414.5	2875.0	2484.5	2236.1	2122.6	2087.0	2083.5
30°	5125.3	4756.2	4252.2	3776.5	3087.9	2513.0	2150.9	1998.3	1888.3	1856.3	1863.4
32.5°	5537.0	5015.3	4376.3	3609.7	2754.3	2190.0	1934.4	1820.8	1717.9	1657.5	1650.5
35°	5881.3	5458.9	4507.7	3350.6	2367.4	1941.5	1781.8	1639.8	1483.6	1416.2	1398.4
37.5°	6537.9	5959.4	4479.3	2960.1	1998.3	1756.9	1618.5	1444.6	1309.7	1217.4	1206.8
40°	7411.1	6545.0	4340.9	2484.5	1725.0	1593.6	1444.6	1277.8	1110.9	1032.9	1025.7
42.5°	8472.3	7262.0	4088.8	2001.8	1451.7	1430.4	1295.6	1103.9	954.8	898.0	901.5
45°	9334.8	7876.0	3833.3	1607.9	1249.4	1270.7	1153.5	972.5	869.6	823.5	823.5
47.5°	10101.5	8291.3	3556.5	1327.5	1061.3	1110.9	1008.0	901.5	812.8	777.3	770.2
50°	10839.8	8713.7	3279.6	1075.5	905.1	954.8	944.1	859.0	787.9	745.3	748.9
52.5°	11301.2	8781.1	2928.2	880.2	791.5	848.3	883.8	805.7	727.6	702.7	695.7
55°	10736.8	7911.5	2271.6	724.0	670.8	745.3	812.8	724.0	663.7	621.2	617.6
56°	9977.2	7073.9	1898.9	667.3	635.3	717.0	787.9	692.1	624.7	599.9	582.1
57.5°	8447.5	5789.0	1402.0	592.7	589.2	667.3	748.9	660.1	582.1	560.8	560.8
60°	5267.2	3258.3	848.3	496.9	511.1	592.7	674.4	589.2	518.2	518.2	528.8
62.5°	2399.3	1355.8	514.7	422.4	440.1	511.1	599.9	532.4	493.4	532.4	539.5
65°	816.4	585.6	372.7	337.2	347.8	422.4	514.7	539.5	536.0	560.8	575.0
67.5°	457.9	376.2	312.3	280.4	273.3	312.3	422.4	539.5	518.2	507.5	514.7
70°	386.9	319.5	276.9	248.4	237.8	252.0	326.5	408.2	365.6	354.9	347.8
72.5°	312.3	266.2	241.3	223.6	191.7	163.3	149.1	156.2	173.9	184.6	202.3
75°	220.0	202.3	202.3	181.0	138.4	103.0	81.7	67.4	46.1	31.9	35.5
77.5°	124.3	124.3	127.8	110.0	88.7	67.4	49.7	35.5	17.8	7.1	3.5
80°	85.2	92.3	99.4	88.7	74.5	60.4	42.6	24.8	10.6	0.0	0.0
82.5°	85.2	95.8	103.0	88.7	74.5	56.8	42.6	24.8	10.6	3.5	0.0
85°	17.8	21.3	24.8	28.4	42.6	42.6	31.9	21.3	10.6	3.5	0.0
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	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)