

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: P646830

Luminaire Tested: **GALN-SA3C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13928 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

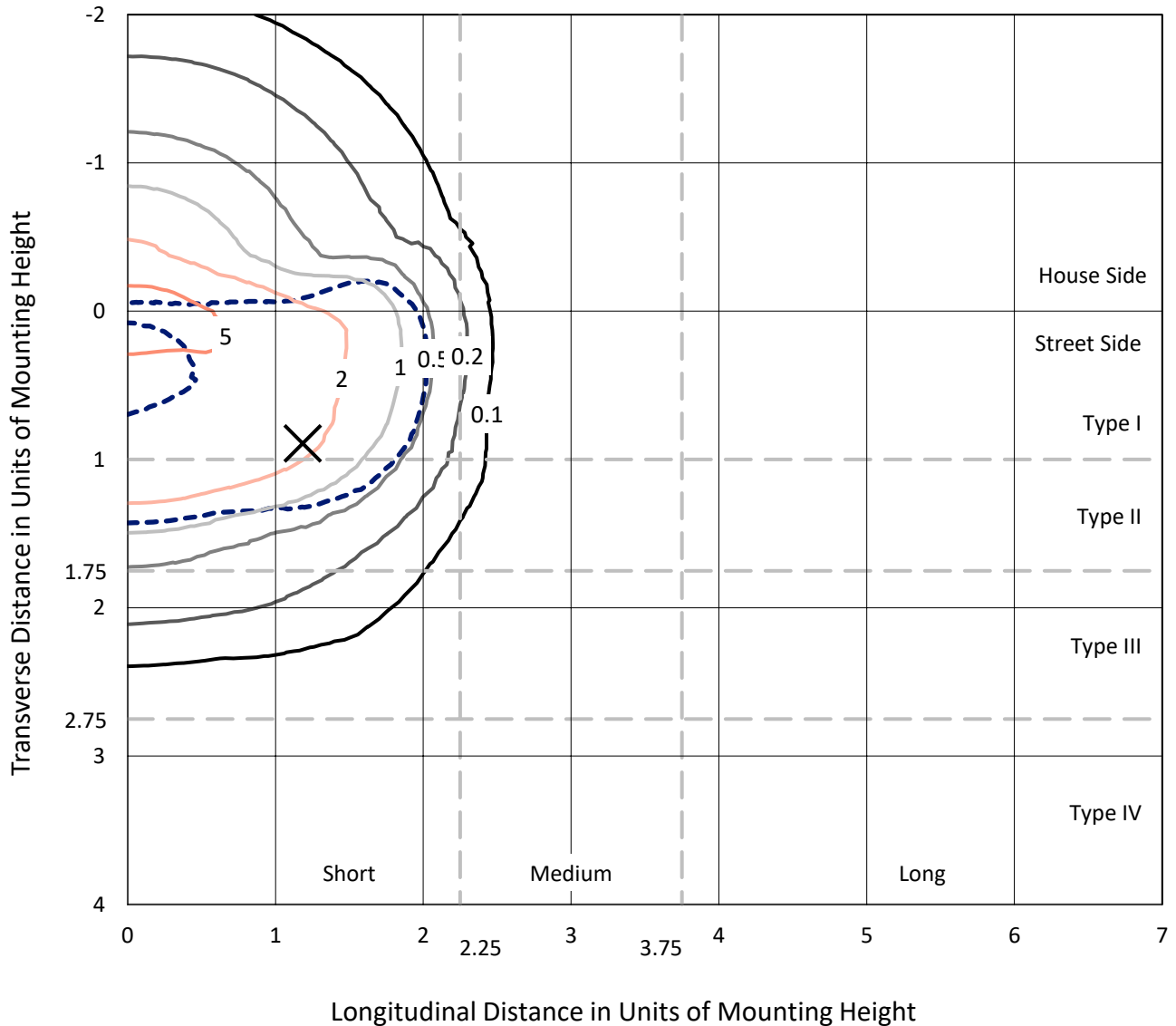
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

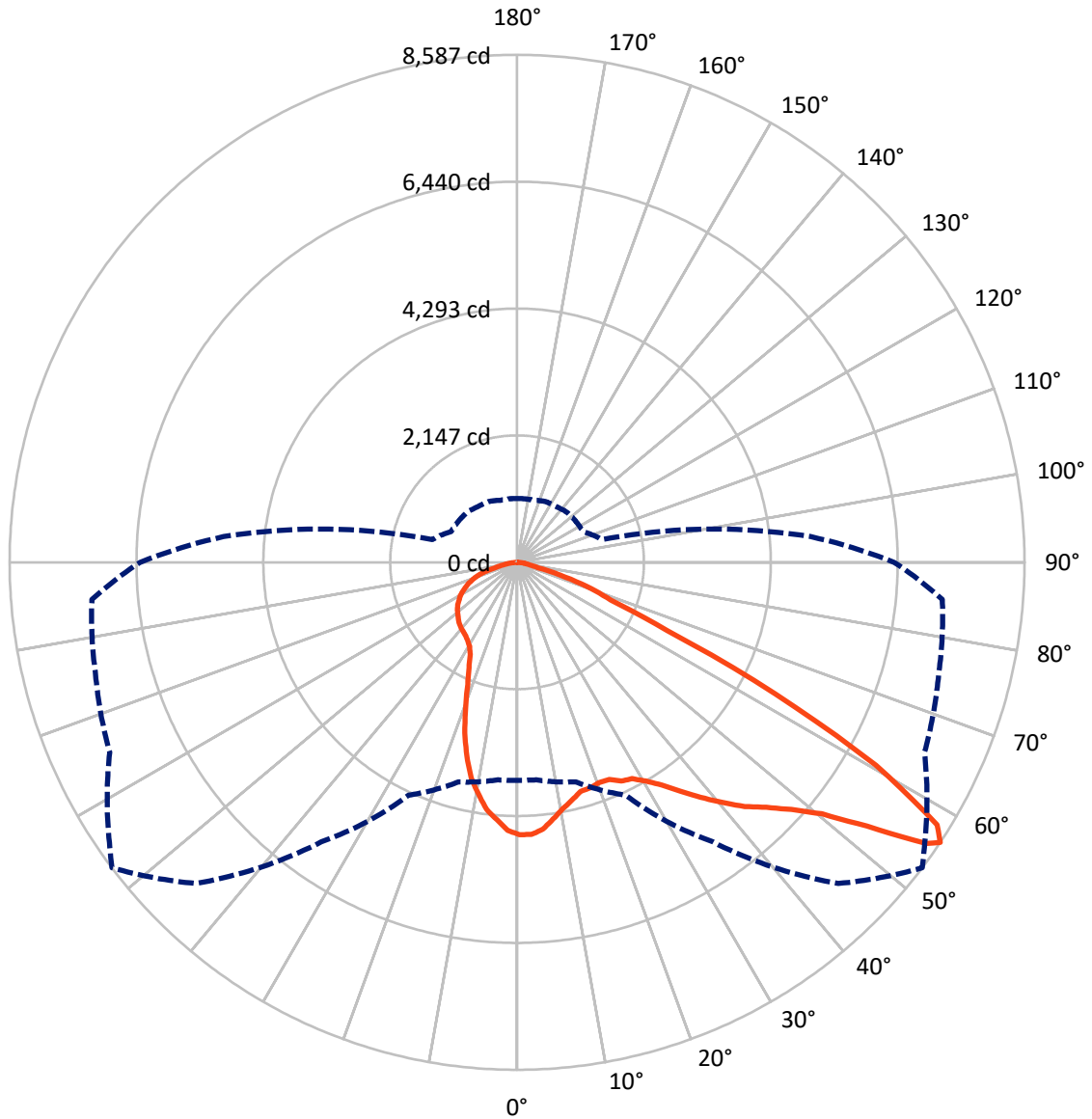
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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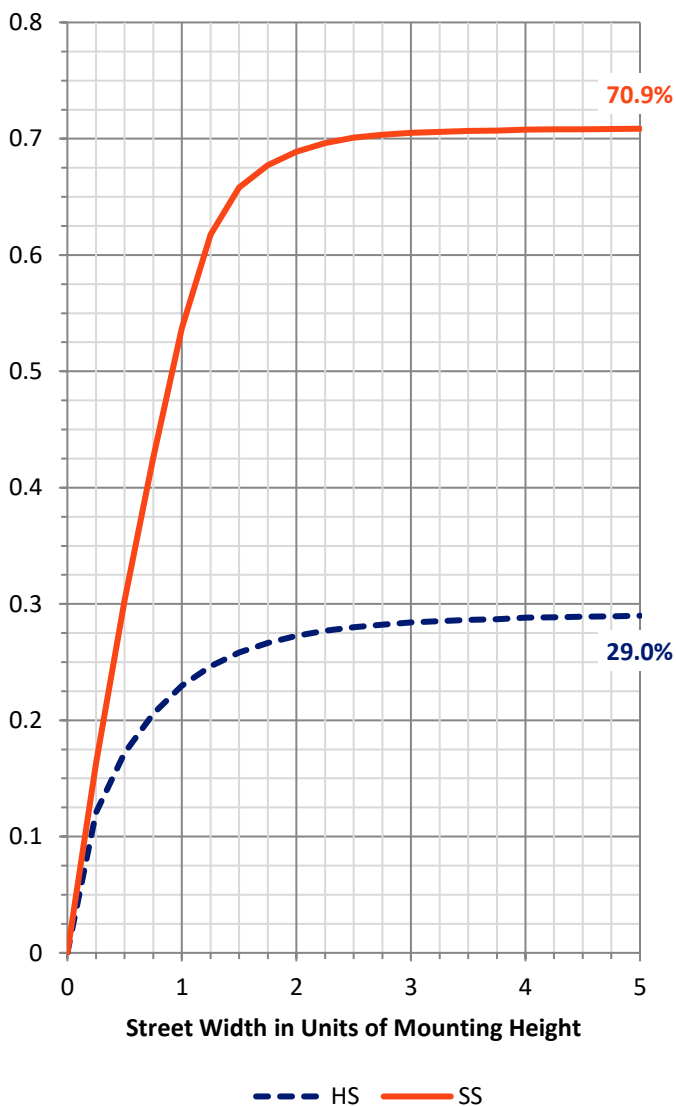
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4064.5	0.0	4064.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	9863.5	0.0	9863.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	13928.0	0.0	13928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.9	2.9
10°-20°	1018.8	7.3
20°-30°	1502.4	10.8
30°-40°	2146.6	15.4
40°-50°	2954.5	21.2
50°-60°	3491.4	25.1
60°-70°	1860.7	13.4
70°-80°	472.1	3.4
80°-90°	73.6	0.5
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°	13928.0	100.0
0°-180°	13928.0	100.0

Coefficient of Utilization



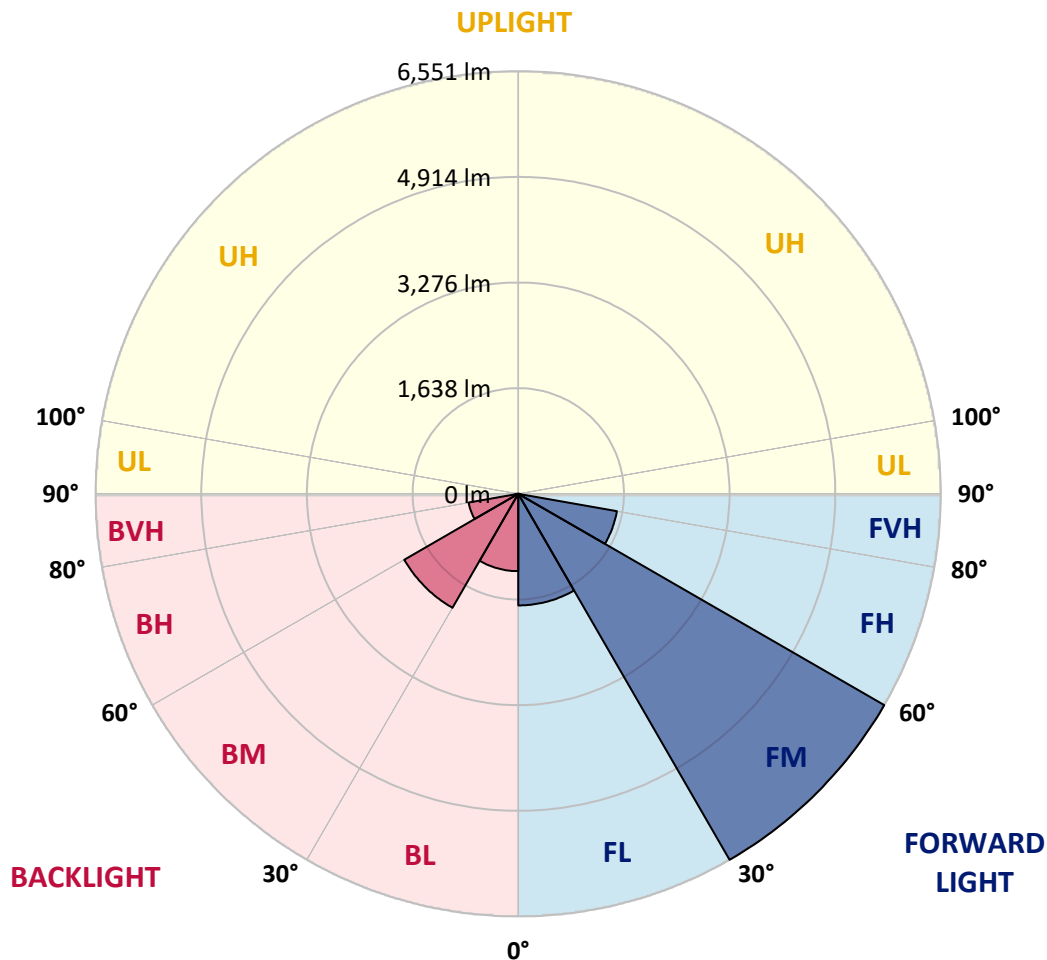
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1730.4	12.4			
FM (30°-60°)	6551.5	47.0			
FH (60°-80°)	1552.1	11.1			G1/1800
FVH (80°-90°)	29.6	0.2			G1/100
BL (0°-30°)	1198.8	8.6	B3/2500		
BM (30°-60°)	2041.1	14.7	B2/2500		
BH (60°-80°)	780.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	44.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0
2.5°	4550.8	4511.4	4534.7	4525.7	4599.0	4620.4	4609.8	4618.7	4659.7	4640.1	4599.0
5°	4252.4	4307.8	4318.5	4345.3	4388.2	4472.1	4538.3	4556.1	4575.8	4666.9	4658.0
7.5°	3980.8	4018.4	3998.6	4077.3	4170.2	4306.0	4386.4	4400.7	4581.1	4631.1	4668.7
10°	3809.3	3771.8	3861.1	3882.5	3988.0	4143.4	4239.9	4298.8	4463.2	4661.5	4684.8
12.5°	3650.3	3637.7	3691.4	3752.1	3870.1	4030.8	4129.1	4152.3	4406.0	4615.1	4724.1
15°	3532.3	3518.0	3571.7	3616.3	3753.9	3896.8	4021.9	4088.0	4343.5	4588.3	4690.1
17.5°	3439.4	3437.6	3468.0	3548.4	3689.6	3809.3	4011.2	4014.8	4311.4	4629.4	4718.7
20°	3434.1	3432.3	3437.6	3526.9	3655.6	3802.1	3977.2	4009.4	4311.4	4600.8	4720.5
22.5°	3478.7	3450.1	3482.3	3539.5	3632.4	3814.6	3989.7	4061.2	4414.9	4741.9	4800.9
25°	3550.2	3557.3	3575.2	3594.8	3648.5	3843.2	4100.5	4159.5	4536.5	4863.4	4911.7
27.5°	3680.6	3677.0	3684.2	3694.9	3741.4	3870.1	4145.2	4297.0	4790.2	5079.6	5031.4
30°	3871.8	3859.3	3887.9	3925.4	3882.5	3955.8	4293.5	4407.8	5026.0	5297.6	5165.4
32.5°	4045.1	4091.6	4145.2	4161.3	4109.4	4123.7	4490.0	4606.2	5222.5	5565.6	5329.8
35°	4261.3	4298.8	4370.3	4420.3	4411.4	4368.5	4758.0	4911.7	5506.7	5762.2	5503.1
37.5°	4472.1	4516.8	4634.7	4783.0	4700.8	4681.2	5043.9	5170.8	5594.2	5867.6	5629.9
40°	4811.6	4809.8	5013.5	5090.4	5163.6	5129.7	5340.5	5383.4	5640.7	5844.3	5633.5
42.5°	5210.1	5185.0	5392.3	5512.0	5606.7	5610.3	5649.6	5635.3	5662.1	5726.4	5596.0
45°	5588.8	5642.5	5851.5	6065.9	6160.6	6171.3	5910.5	5883.6	5699.6	5692.5	5524.5
47.5°	6051.6	6064.1	6235.7	6517.9	6737.7	6662.6	6248.1	6189.1	5864.0	5919.4	5644.3
50°	6078.4	6171.3	6325.0	6657.3	7332.6	7313.0	6685.9	6575.1	6128.5	6241.0	5978.4
52.5°	5517.3	5496.0	5678.2	6221.3	7288.0	7959.8	7411.3	7146.8	6696.6	6610.9	6519.7
55°	4204.2	4254.2	4414.9	4963.5	6328.5	7968.7	8399.3	8183.1	7304.1	7157.6	7052.2
56°	3687.8	3694.9	3846.8	4347.1	5774.6	7684.7	8586.9	8411.8	7606.1	7382.7	7221.9
57.5°	3057.1	3016.0	3094.6	3367.9	4874.2	7084.3	8381.5	8553.0	7959.8	7625.7	7402.3
60°	2406.7	2397.8	2365.6	2415.6	3080.3	5336.9	6977.1	7363.0	7924.0	7397.0	7089.7
62.5°	1965.4	1920.7	1985.1	2056.5	2140.5	3310.8	4902.8	5129.7	6291.0	5905.1	5326.2
65°	1524.0	1502.7	1583.0	1815.3	1865.3	2103.0	2792.6	2967.7	3714.6	3648.5	3212.5
67.5°	1048.8	1052.4	1122.0	1475.8	1729.6	1708.1	1709.9	1801.0	1938.6	1440.1	1254.3
70°	664.7	662.9	700.4	950.6	1391.9	1406.1	1334.7	1307.8	1240.0	750.4	795.1
72.5°	427.0	414.5	434.2	525.3	720.0	832.6	857.6	873.7	718.2	589.6	639.6
75°	241.2	228.7	221.6	244.8	284.1	328.8	360.9	371.6	416.3	446.7	473.5
77.5°	73.3	66.1	80.4	107.2	141.2	189.4	230.5	237.6	280.5	316.3	343.0
80°	32.2	35.7	50.0	71.5	100.1	134.0	162.6	173.3	201.9	228.7	235.8
82.5°	19.7	21.5	34.0	48.2	69.7	94.7	116.1	119.7	148.3	169.8	175.1
85°	7.1	8.9	17.9	28.6	44.6	60.8	60.8	66.1	60.8	60.8	66.1
87.5°	0.0	0.0	1.8	3.6	3.6	5.3	7.1	7.1	8.9	10.7	12.5
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°	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0	4608.0
2.5°	4620.4	4611.5	4597.2	4545.4	4540.1	4523.9	4434.6	4420.3	4434.6	4391.8	4395.3
5°	4611.5	4638.3	4531.1	4479.3	4382.8	4313.2	4232.7	4191.6	4118.3	4071.9	4123.7
7.5°	4650.8	4640.1	4506.1	4393.5	4248.8	4071.9	3930.7	3850.4	3721.8	3686.0	3712.8
10°	4636.5	4579.4	4422.1	4273.8	4000.4	3845.0	3616.3	3394.8	3273.3	3210.7	3201.8
12.5°	4616.9	4600.8	4338.1	4082.6	3795.0	3468.0	3146.4	2937.3	2739.0	2653.3	2665.8
15°	4640.1	4504.3	4180.9	3857.5	3475.2	3046.3	2699.7	2430.0	2292.4	2237.0	2237.0
17.5°	4629.4	4457.9	4105.9	3605.6	3121.4	2614.0	2233.4	2070.8	2013.6	2013.6	2029.7
20°	4634.7	4488.2	3954.0	3353.7	2703.3	2201.2	1924.3	1865.3	1890.3	1899.2	1908.2
22.5°	4665.1	4388.2	3805.7	3076.7	2315.6	1883.2	1747.4	1749.2	1793.9	1842.1	1833.2
25°	4702.6	4348.9	3625.2	2801.6	2019.0	1727.8	1684.9	1679.5	1713.4	1738.5	1742.0
27.5°	4670.4	4281.0	3441.2	2458.5	1776.0	1624.1	1615.2	1618.8	1629.5	1679.5	1663.4
30°	4775.9	4300.6	3210.7	2170.9	1642.0	1590.2	1579.5	1574.1	1590.2	1604.4	1592.0
32.5°	4906.3	4230.9	3039.2	1893.9	1575.9	1565.1	1543.7	1536.6	1545.5	1531.2	1538.4
35°	4963.5	4218.4	2815.8	1695.6	1524.0	1515.1	1502.7	1500.9	1502.7	1490.1	1479.4
37.5°	4995.6	4277.4	2560.3	1604.4	1491.9	1500.9	1472.3	1468.7	1436.5	1443.7	1449.0
40°	5051.1	4186.2	2353.1	1516.9	1472.3	1454.4	1429.4	1424.0	1402.6	1390.1	1402.6
42.5°	4970.6	4159.5	2149.4	1479.4	1443.7	1424.0	1406.1	1375.7	1368.6	1357.9	1350.8
45°	4906.3	4005.8	1967.2	1433.0	1409.7	1399.0	1365.1	1332.9	1306.1	1316.8	1300.7
47.5°	4954.6	3952.2	1786.7	1393.7	1363.3	1350.8	1316.8	1291.8	1265.0	1252.5	1248.9
50°	5147.5	4052.3	1634.8	1365.1	1324.0	1316.8	1272.1	1243.6	1218.5	1209.6	1213.2
52.5°	5608.5	4325.6	1531.2	1306.1	1286.5	1254.3	1229.2	1193.5	1177.5	1148.8	1166.7
55°	6192.7	4770.5	1504.4	1250.7	1240.0	1211.4	1177.5	1150.6	1120.2	1097.1	1091.7
56°	6380.4	4983.2	1483.0	1229.2	1211.4	1195.3	1150.6	1134.6	1086.3	1080.9	1077.4
57.5°	6532.3	5170.8	1486.5	1188.2	1170.3	1156.0	1129.2	1089.9	1057.8	1038.1	1047.0
60°	6189.1	4840.2	1418.6	1125.6	1122.0	1095.3	1057.8	1039.9	1000.6	977.3	971.9
62.5°	4600.8	3285.8	1150.6	1045.2	1043.4	1014.8	971.9	952.3	945.2	913.0	913.0
65°	2649.7	2060.1	995.2	979.1	964.8	936.2	893.3	877.3	859.4	848.7	839.8
67.5°	1131.0	1068.5	904.1	902.3	886.2	850.5	807.6	782.6	759.4	737.9	748.6
70°	820.1	832.6	816.5	807.6	787.9	743.3	705.7	675.4	639.6	625.4	636.0
72.5°	650.4	677.1	700.4	702.2	678.9	627.1	586.1	545.0	505.7	486.0	494.9
75°	493.1	511.0	534.2	539.6	505.7	469.9	430.6	387.7	357.4	334.1	337.7
77.5°	355.6	352.0	373.4	369.8	353.8	328.8	293.0	253.7	219.8	198.3	200.1
80°	243.0	248.4	260.9	259.1	239.4	223.3	196.5	164.4	139.4	121.5	117.9
82.5°	169.8	178.7	189.4	180.5	164.4	148.3	128.6	105.4	85.7	71.5	67.9
85°	60.8	69.7	80.4	85.7	91.1	87.5	73.3	59.0	42.9	35.7	34.0
87.5°	12.5	14.3	16.1	16.1	16.1	14.3	12.5	12.5	10.7	5.3	5.3
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)