

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: P646912

Luminaire Tested: **GALN-SA4C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18566.5 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

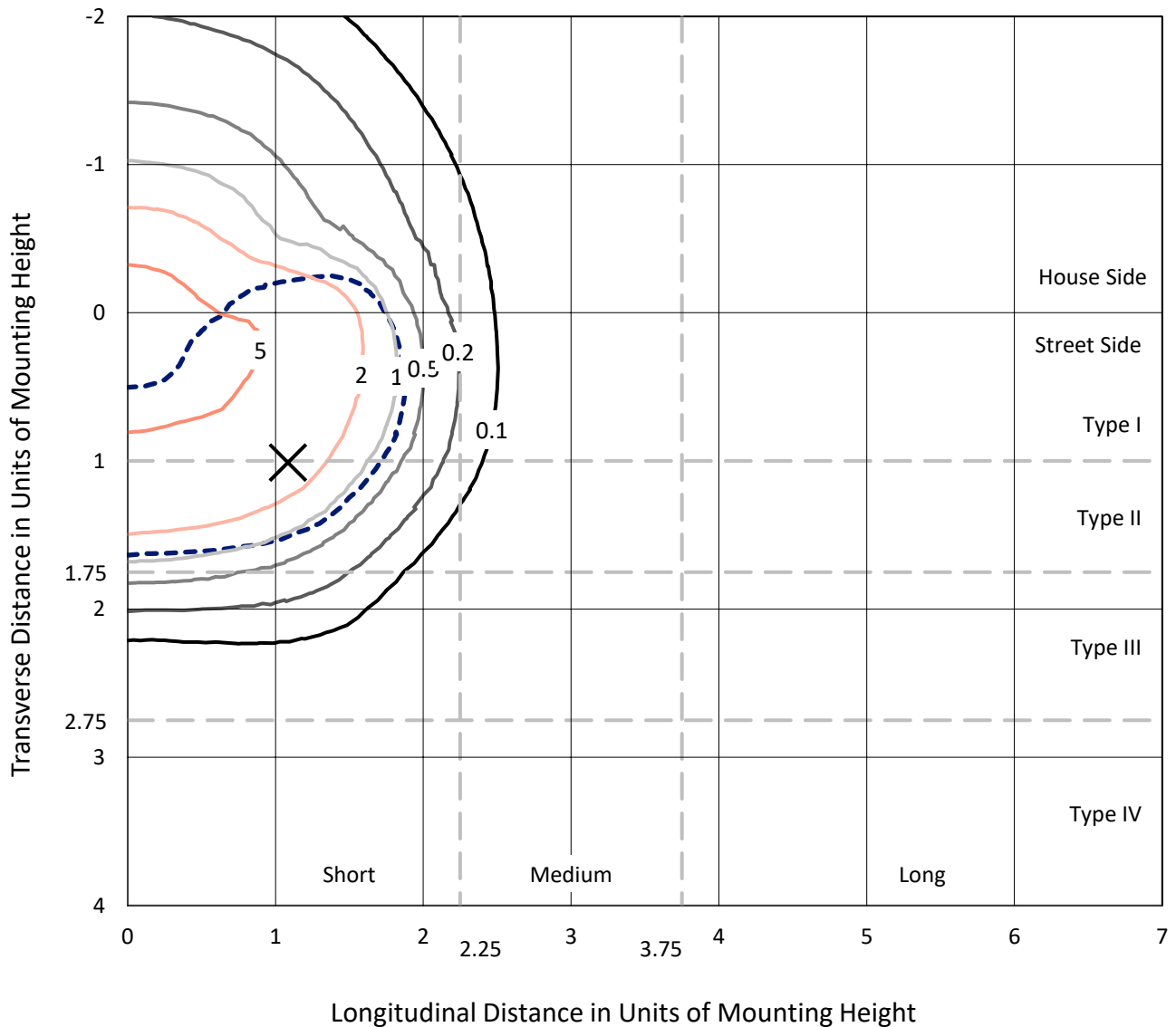
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

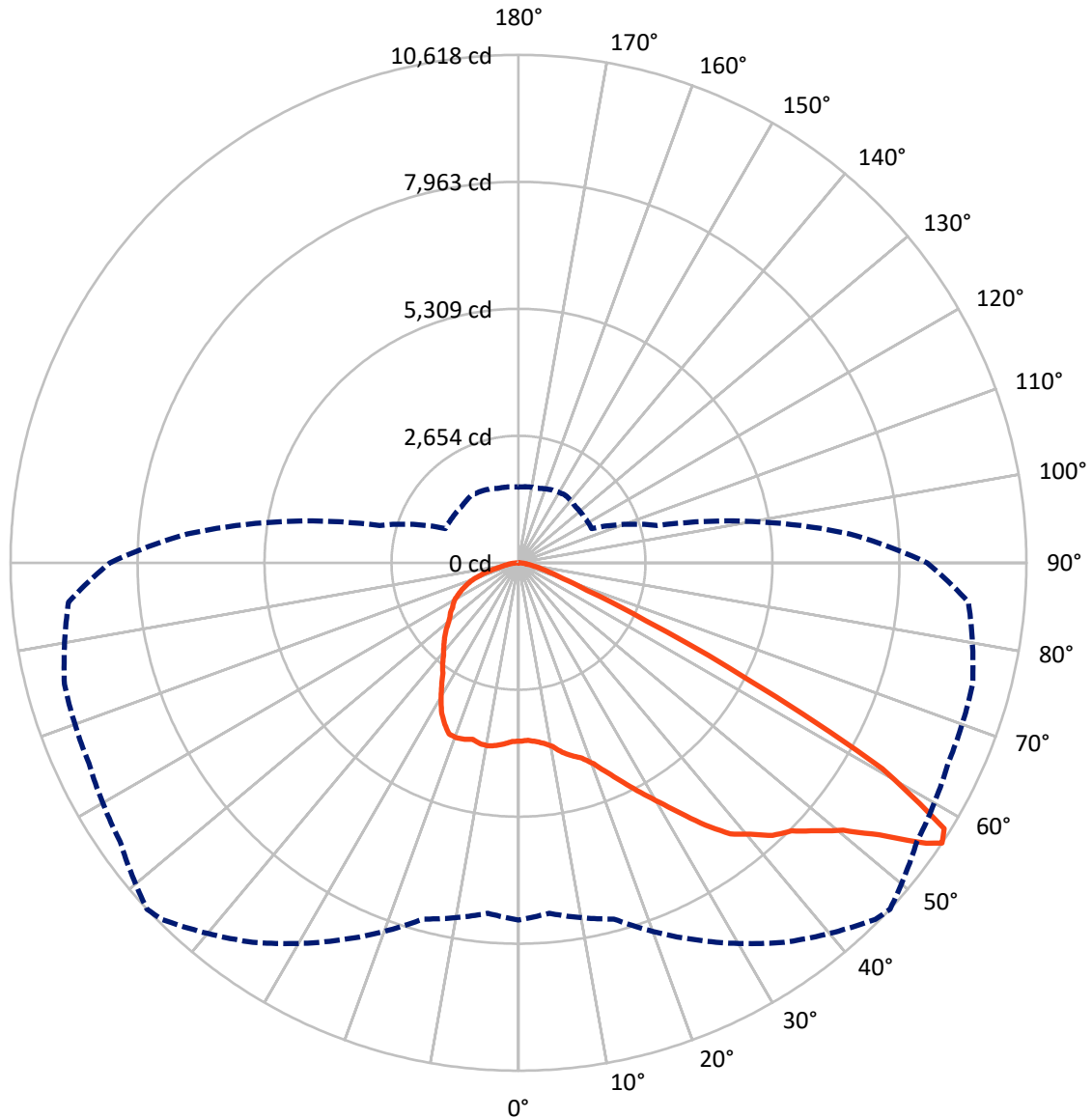
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5883.5	0.0	5883.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12683.0	0.0	12683.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	18566.5	0.0	18566.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.4	2.0
10°-20°	1146.3	6.2
20°-30°	2026.4	10.9
30°-40°	3043.5	16.4
40°-50°	4177.0	22.5
50°-60°	4976.3	26.8
60°-70°	2129.6	11.5
70°-80°	602.7	3.2
80°-90°	101.4	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°	18566.5	100.0
0°-180°	18566.5	100.0

Coefficient of Utilization

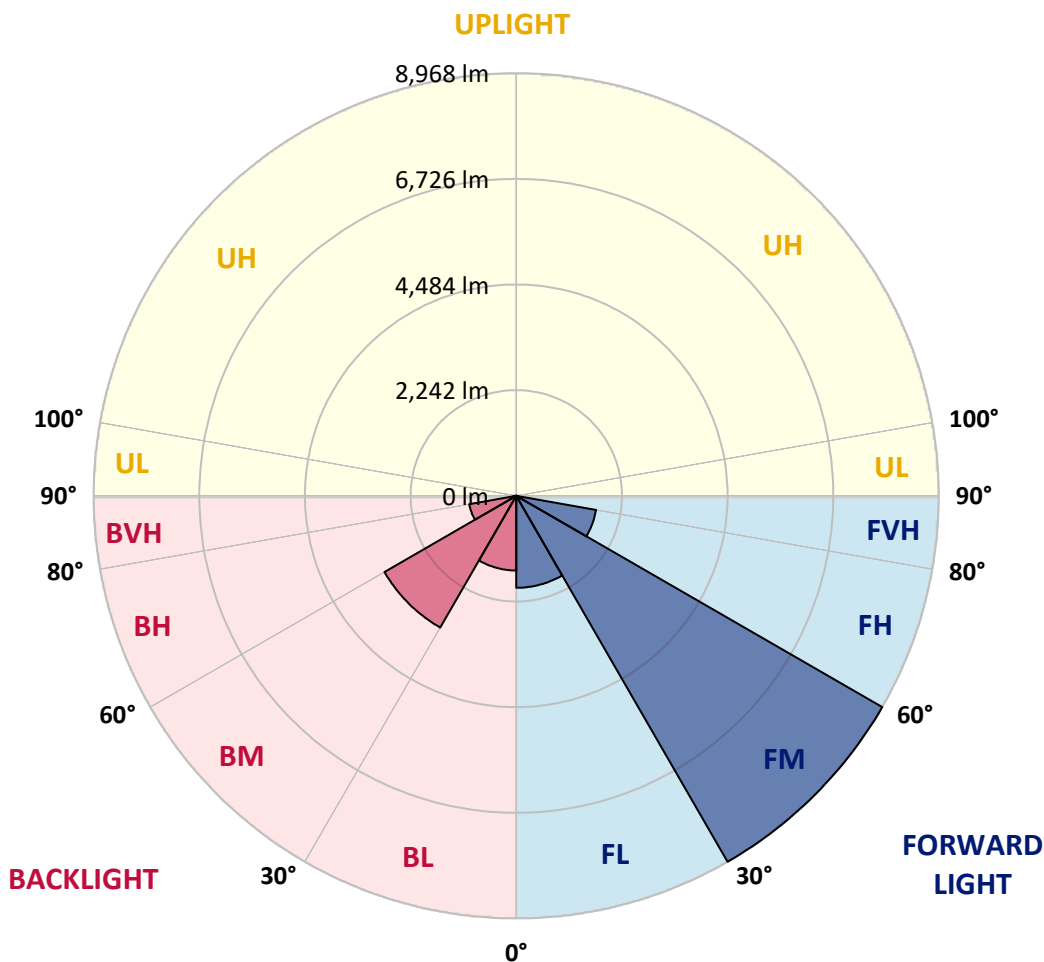


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.0	10.5			
FM (30°-60°)	8968.0	48.3			
FH (60°-80°)	1719.9	9.3			G1/1800
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	1584.1	8.5	B3/2500		
BM (30°-60°)	3228.8	17.4	B3/5000		
BH (60°-80°)	1012.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	58.4	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4
2.5°	3715.3	3708.1	3703.4	3741.3	3727.1	3729.4	3715.3	3729.4	3738.9	3717.6	3748.4
5°	3708.1	3729.4	3710.5	3722.3	3753.2	3743.7	3753.2	3781.6	3774.5	3767.3	3757.9
7.5°	3774.5	3776.8	3791.0	3795.7	3805.2	3795.7	3809.9	3836.0	3828.9	3788.6	3793.4
10°	3869.1	3873.9	3876.2	3902.3	3918.9	3921.3	3904.7	3881.0	3878.6	3933.1	3895.2
12.5°	3978.1	3966.2	3994.6	4004.1	4023.1	4044.4	4065.6	4015.9	4046.8	4049.1	4004.1
15°	4136.7	4148.6	4115.4	4115.4	4122.5	4124.9	4184.1	4160.4	4155.7	4129.6	4148.6
17.5°	4373.5	4293.0	4290.6	4257.5	4252.8	4271.7	4293.0	4312.0	4375.9	4323.8	4221.9
20°	4546.3	4565.3	4496.6	4456.4	4463.5	4506.1	4484.8	4570.1	4615.0	4529.8	4430.4
22.5°	4851.9	4787.9	4804.5	4714.5	4721.6	4766.6	4764.2	4851.9	4877.9	4742.9	4598.5
25°	5057.9	5041.3	5055.4	4984.4	4993.9	5029.4	5086.3	5230.7	5188.1	5038.9	4705.0
27.5°	5358.5	5325.4	5313.6	5287.5	5278.0	5372.8	5439.0	5593.0	5562.2	5344.4	4894.5
30°	5666.4	5645.0	5656.9	5550.4	5588.3	5789.5	5808.5	6019.2	6005.0	5621.4	5105.2
32.5°	5879.5	5891.4	5912.7	5853.5	6021.6	6182.6	6246.5	6485.7	6497.5	6097.4	5512.5
35°	6222.8	6182.6	6194.5	6263.1	6341.2	6634.8	6739.0	6897.7	6997.1	6597.0	5903.2
37.5°	6438.3	6481.0	6431.2	6540.2	6743.8	7096.6	7191.3	7354.7	7458.9	7089.5	6435.9
40°	6774.6	6705.9	6741.4	6819.5	7027.9	7487.3	7461.3	7629.4	7662.5	7508.6	6933.2
42.5°	7136.9	7103.7	7054.0	7231.6	7406.8	7740.7	7792.7	7714.6	7882.8	7918.2	7643.6
45°	7570.2	7610.4	7617.6	7622.3	7776.2	8067.4	7996.4	7927.7	8121.9	8380.0	8084.0
47.5°	7972.7	7844.9	7937.2	8065.1	8282.9	8285.3	8368.2	8204.7	8410.8	8640.5	8481.8
50°	8107.7	8046.1	8169.3	8410.8	8747.0	8782.5	8792.0	8560.0	8666.6	8848.8	8619.2
52.5°	8055.6	8034.3	8349.2	8723.3	9215.9	9395.8	9443.2	9156.6	9215.9	9133.0	8922.3
55°	7807.0	7870.9	8188.2	8950.6	9706.0	10262.5	10352.4	9990.1	9613.7	9677.6	9445.6
56°	7466.0	7354.7	7709.9	8692.6	9684.7	10544.3	10617.6	10165.4	9909.6	9826.8	9440.8
57.5°	6334.2	6189.7	6656.2	7821.2	9147.2	10437.7	10492.2	10238.8	9859.9	9691.8	8751.7
60°	3708.1	3779.1	4371.2	5394.1	7056.3	8557.6	8739.9	8924.6	8671.3	7918.2	6514.1
62.5°	1790.1	1745.2	2169.0	3092.5	4300.1	5462.8	5408.3	5926.8	6211.0	5626.2	4113.0
65°	937.7	932.9	1184.0	1688.3	2363.2	2869.9	2919.7	3199.0	3589.7	2898.3	2088.5
67.5°	689.0	708.0	833.5	1186.3	1520.2	1551.0	1543.8	1683.6	1721.4	1456.2	1283.4
70°	539.9	549.4	641.7	902.2	1131.8	1013.4	992.1	1008.7	1120.0	1167.4	1110.5
72.5°	390.7	400.2	478.3	608.5	708.0	691.4	705.6	798.0	935.3	985.0	925.8
75°	260.5	267.6	310.2	371.8	419.1	452.3	478.3	584.9	712.8	741.2	712.8
77.5°	179.9	187.1	215.5	262.9	267.6	288.8	298.3	348.0	426.2	461.7	442.8
80°	101.8	101.8	116.0	135.0	165.8	194.2	198.9	239.1	274.7	298.3	303.1
82.5°	47.4	49.7	61.5	82.8	108.9	135.0	139.7	165.8	191.8	215.5	222.6
85°	23.6	26.1	35.5	49.7	66.3	80.5	78.1	80.5	85.3	80.5	82.8
87.5°	7.1	7.1	9.5	11.8	9.5	11.8	11.8	14.2	16.6	18.9	21.3
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°	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4	3729.4
2.5°	3750.7	3757.9	3710.5	3755.5	3738.9	3736.6	3769.7	3765.0	3776.8	3772.1	3743.7
5°	3753.2	3736.6	3786.3	3741.3	3762.6	3807.6	3776.8	3847.8	3812.3	3836.0	3783.9
7.5°	3826.5	3831.3	3821.8	3840.8	3831.3	3852.6	3836.0	3852.6	3824.2	3826.5	3873.9
10°	3890.5	3876.2	3892.8	3869.1	3885.7	3878.6	3840.8	3828.9	3838.3	3826.5	3857.3
12.5°	4008.9	3982.8	3971.0	3942.6	3923.6	3852.6	3793.4	3760.2	3805.2	3812.3	3798.1
15°	4129.6	4132.0	4077.6	4013.6	3895.2	3788.6	3802.9	3814.7	3814.7	3833.6	3798.1
17.5°	4205.4	4205.4	4155.7	4027.8	3907.0	3845.5	3831.3	3793.4	3760.2	3755.5	3753.2
20°	4338.0	4297.7	4184.1	4025.4	3902.3	3873.9	3767.3	3677.4	3608.7	3585.0	3582.6
22.5°	4489.6	4387.7	4229.1	4030.2	3895.2	3854.9	3656.1	3521.1	3397.9	3345.8	3353.0
25°	4629.3	4465.8	4255.1	4008.9	3869.1	3675.0	3452.4	3265.3	3137.5	3094.9	3073.5
27.5°	4726.3	4548.8	4255.1	4027.8	3772.1	3473.7	3246.4	3007.3	2895.9	2867.5	2872.3
30°	4856.6	4652.9	4328.5	3987.6	3577.9	3213.3	2940.9	2784.7	2718.3	2694.7	2711.2
32.5°	5162.0	4925.2	4430.4	3890.5	3348.2	2952.8	2732.6	2645.0	2547.9	2500.5	2483.9
35°	5493.5	5183.3	4529.8	3727.1	3090.1	2716.0	2578.7	2498.2	2382.1	2330.1	2339.5
37.5°	5962.4	5514.8	4536.9	3457.1	2810.7	2583.4	2457.9	2332.4	2237.7	2157.2	2133.5
40°	6594.6	5967.1	4520.3	3173.0	2585.8	2427.1	2334.7	2178.5	2071.9	2015.1	2027.0
42.5°	7151.1	6497.5	4451.7	2851.0	2382.1	2320.6	2216.4	2062.4	1958.3	1899.1	1894.3
45°	7619.9	6888.2	4321.5	2576.3	2211.6	2202.2	2081.4	1963.0	1880.1	1825.6	1849.4
47.5°	8053.2	7203.1	4124.9	2301.6	2055.4	2074.2	1958.3	1884.8	1832.8	1783.0	1780.7
50°	8209.5	7198.4	3952.0	2074.2	1929.9	1920.4	1915.6	1837.5	1783.0	1740.4	1759.3
52.5°	8469.9	7278.9	3765.0	1918.0	1816.2	1818.5	1835.1	1778.3	1716.7	1690.7	1714.4
55°	8844.1	7290.7	3353.0	1735.7	1721.4	1738.0	1738.0	1700.1	1648.1	1626.8	1614.9
56°	8538.6	6937.9	3007.3	1688.3	1674.1	1674.1	1719.1	1676.5	1612.5	1596.0	1581.7
57.5°	7875.6	6078.4	2517.1	1631.5	1610.2	1643.4	1667.0	1622.0	1562.8	1539.1	1553.3
60°	5432.0	4113.0	1892.0	1508.4	1508.4	1562.8	1581.7	1515.4	1489.4	1487.1	1468.1
62.5°	3170.6	2396.3	1479.9	1397.0	1401.8	1446.7	1461.0	1423.1	1390.0	1430.2	1449.2
65°	1681.2	1430.2	1269.2	1278.6	1281.1	1316.5	1378.1	1375.7	1373.4	1385.2	1387.6
67.5°	1217.1	1188.7	1153.2	1143.7	1148.4	1174.5	1236.0	1283.4	1281.1	1252.6	1231.3
70°	1084.5	1044.2	1022.9	1025.3	1006.4	1037.2	1086.9	1117.7	1063.2	1030.0	1015.9
72.5°	902.2	890.3	876.1	878.5	840.6	833.5	776.7	776.7	762.5	753.0	769.5
75°	689.0	684.3	691.4	679.6	639.3	596.7	563.5	532.8	485.4	466.5	457.0
77.5°	435.7	449.9	466.5	440.4	423.8	393.1	359.9	329.2	291.3	270.0	270.0
80°	296.0	307.8	319.7	314.9	296.0	267.6	241.6	208.4	182.4	165.8	163.4
82.5°	225.0	234.4	251.0	232.1	213.1	189.4	168.1	144.5	120.7	101.8	101.8
85°	80.5	92.3	101.8	111.3	118.4	120.7	104.2	85.3	68.7	54.5	52.1
87.5°	21.3	23.6	26.1	23.6	23.6	23.6	26.1	23.6	21.3	16.6	16.6
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)