

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: P652632

Luminaire Tested: **GALN-SA9B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652632
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-SA9B-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA 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: 36988 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

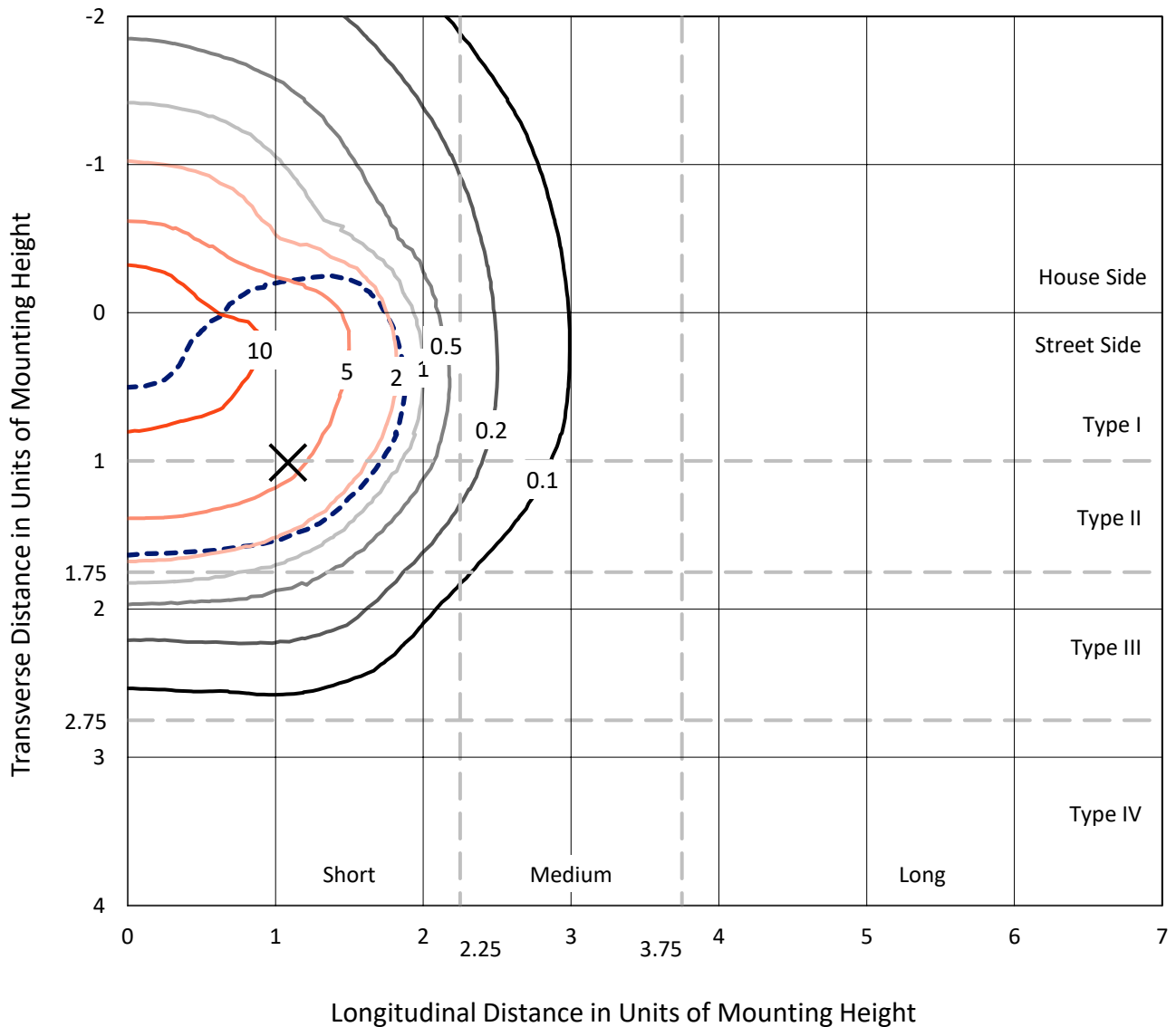
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

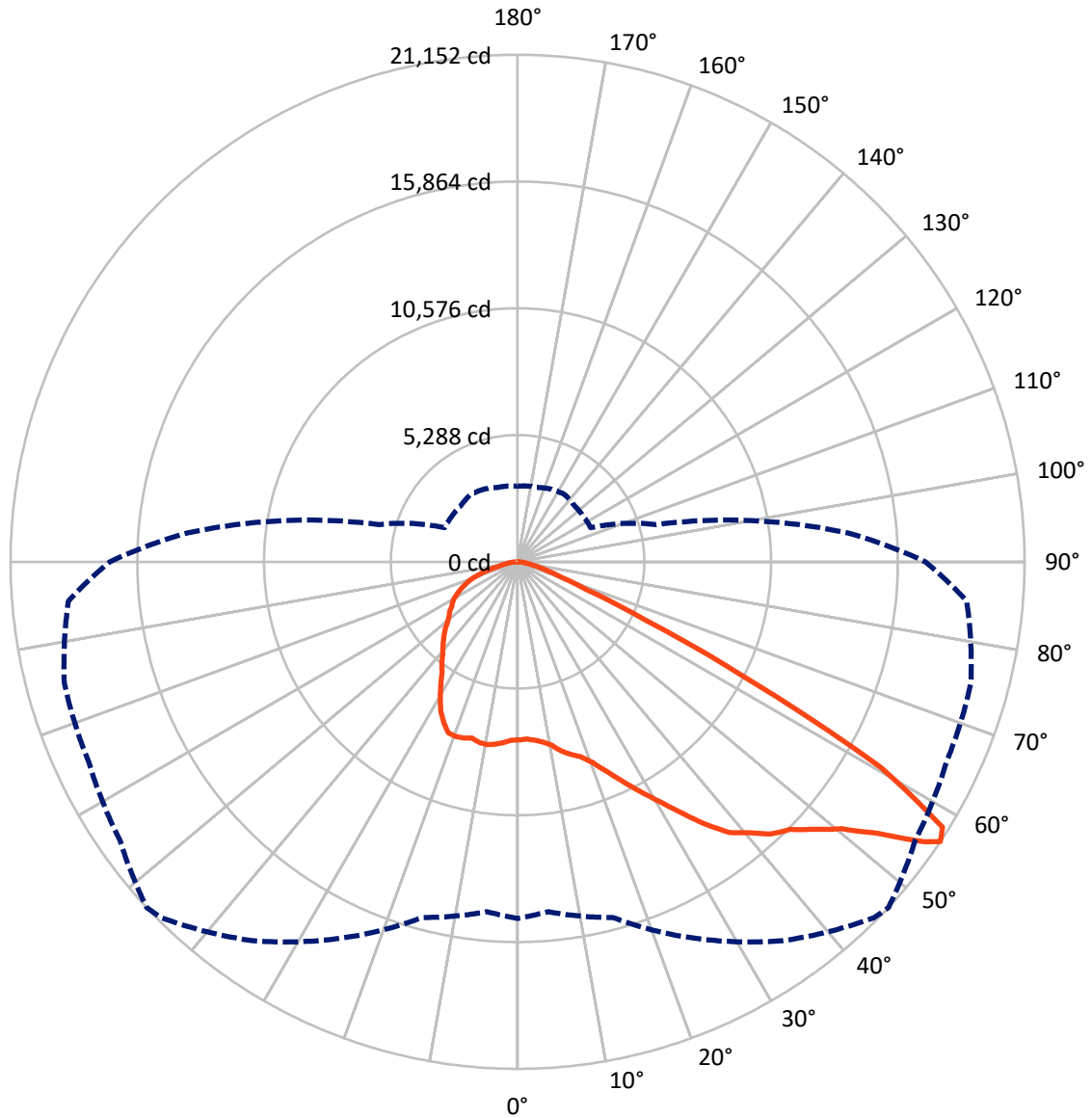
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	11721.1	0.0	11721.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	25267.0	0.0	25267.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	36988.0	0.0	36988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.9	2.0
10°-20°	2283.6	6.2
20°-30°	4036.9	10.9
30°-40°	6063.3	16.4
40°-50°	8321.3	22.5
50°-60°	9913.7	26.8
60°-70°	4242.5	11.5
70°-80°	1200.6	3.2
80°-90°	202.0	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°	36988.0	100.0
0°-180°	36988.0	100.0

Coefficient of Utilization



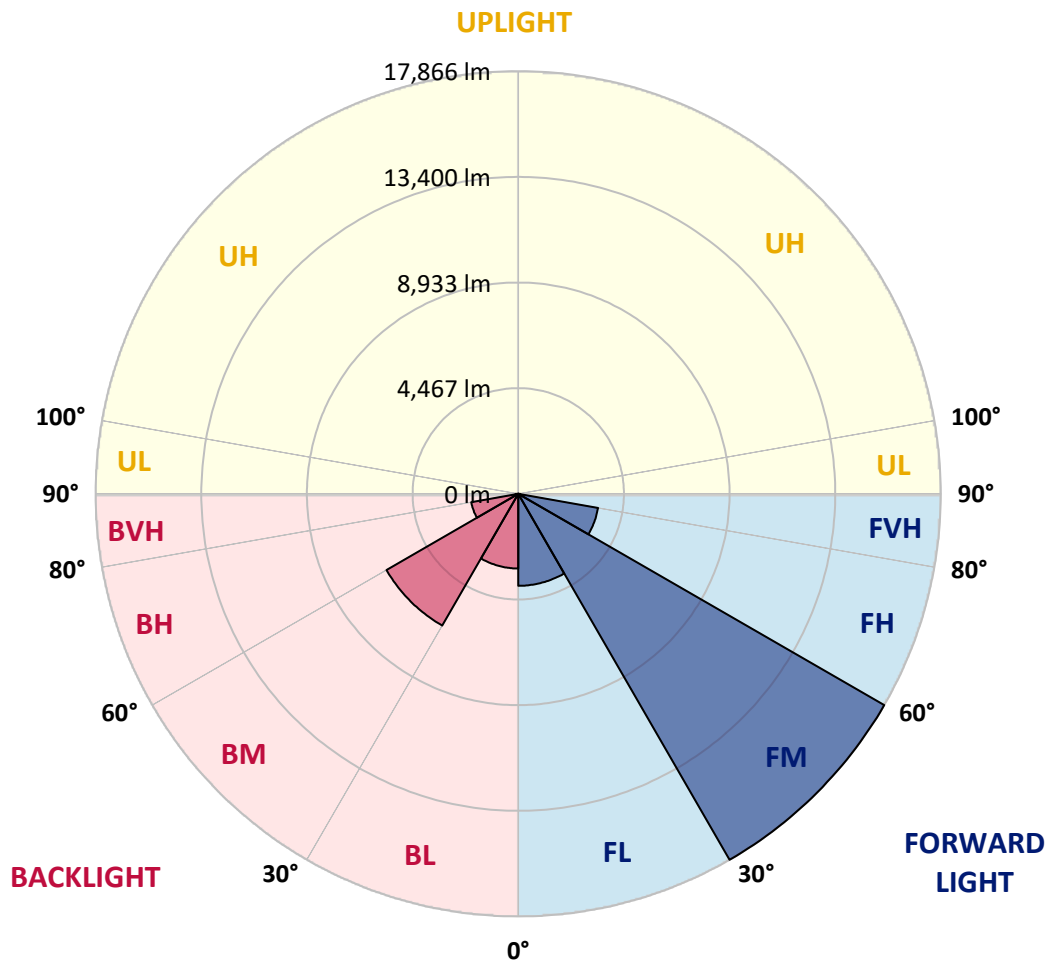
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3888.7	10.5			
FM (30°-60°)	17866.1	48.3			
FH (60°-80°)	3426.4	9.3			G2/5000
FVH (80°-90°)	85.8	0.2			G1/100
BL (0°-30°)	3155.8	8.5	B4/5000		
BM (30°-60°)	6432.3	17.4	B4/8500		
BH (60°-80°)	2016.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	116.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7
2.5°	7401.5	7387.3	7377.8	7453.4	7425.0	7429.7	7401.5	7429.7	7448.7	7406.2	7467.5
5°	7387.3	7429.7	7392.1	7415.6	7476.9	7458.1	7476.9	7533.5	7519.4	7505.3	7486.4
7.5°	7519.4	7524.1	7552.4	7561.9	7580.7	7561.9	7590.2	7642.1	7627.9	7547.7	7557.1
10°	7708.1	7717.5	7722.2	7774.1	7807.2	7811.9	7778.8	7731.6	7726.9	7835.4	7760.0
12.5°	7925.1	7901.5	7958.1	7977.0	8014.7	8057.2	8099.6	8000.6	8061.9	8066.6	7977.0
15°	8241.1	8264.8	8198.7	8198.7	8212.9	8217.6	8335.5	8288.3	8278.9	8227.0	8264.8
17.5°	8712.8	8552.5	8547.8	8481.7	8472.3	8510.0	8552.5	8590.2	8717.6	8613.8	8411.0
20°	9057.2	9095.0	8958.2	8878.0	8892.1	8977.1	8934.6	9104.4	9194.1	9024.2	8826.1
22.5°	9665.8	9538.4	9571.4	9392.2	9406.3	9496.0	9491.3	9665.8	9717.7	9448.8	9161.0
25°	10076.2	10043.1	10071.5	9929.9	9948.8	10019.6	10132.8	10420.6	10335.6	10038.4	9373.3
27.5°	10675.3	10609.2	10585.7	10533.8	10514.9	10703.6	10835.7	11142.3	11080.9	10647.0	9750.7
30°	11288.5	11246.1	11269.7	11057.4	11132.8	11533.8	11571.6	11991.4	11963.1	11198.9	10170.5
32.5°	11713.1	11736.7	11779.1	11661.2	11996.1	12316.9	12444.3	12920.7	12944.3	12147.1	10981.9
35°	12397.1	12316.9	12340.5	12477.3	12633.0	13217.9	13425.5	13741.5	13939.7	13142.5	11760.3
37.5°	12826.3	12911.3	12812.2	13029.2	13434.9	14137.8	14326.5	14652.0	14859.5	14123.7	12821.6
40°	13496.2	13359.5	13430.2	13585.9	14001.0	14916.1	14864.3	15199.2	15265.2	14958.6	13812.3
42.5°	14217.9	14151.9	14052.9	14406.7	14755.8	15420.9	15524.7	15369.0	15703.9	15774.7	15227.5
45°	15081.2	15161.5	15175.6	15185.0	15491.6	16071.9	15930.4	15793.6	16180.4	16694.6	16104.9
47.5°	15883.2	15628.5	15812.4	16067.1	16501.2	16505.9	16671.0	16345.5	16755.9	17213.5	16897.5
50°	16152.1	16029.5	16274.7	16755.9	17425.8	17496.5	17515.4	17053.1	17265.4	17628.6	17171.0
52.5°	16048.3	16005.8	16633.2	17378.6	18359.8	18718.3	18812.7	18241.9	18359.8	18194.7	17774.9
55°	15552.9	15680.4	16312.5	17831.5	19336.3	20444.9	20624.1	19902.3	19152.3	19279.7	18817.4
56°	14873.7	14652.0	15359.6	17317.3	19293.8	21006.2	21152.4	20251.4	19742.0	19576.9	18808.0
57.5°	12618.8	12331.1	13260.4	15581.3	18223.0	20793.9	20902.4	20397.7	19642.9	19307.9	17435.2
60°	7387.3	7528.8	8708.1	10746.0	14057.6	17048.3	17411.6	17779.6	17274.8	15774.7	12977.3
62.5°	3566.3	3476.7	4321.1	6160.8	8566.7	10882.9	10774.3	11807.5	12373.5	11208.3	8193.9
65°	1868.0	1858.6	2358.7	3363.4	4707.9	5717.4	5816.4	6373.1	7151.4	5774.0	4160.7
67.5°	1372.8	1410.4	1660.5	2363.4	3028.5	3089.8	3075.7	3354.0	3429.5	2901.1	2556.8
70°	1075.6	1094.4	1278.4	1797.3	2254.9	2019.0	1976.5	2009.6	2231.3	2325.6	2212.4
72.5°	778.3	797.3	952.9	1212.4	1410.4	1377.5	1405.7	1589.7	1863.3	1962.4	1844.5
75°	518.9	533.0	618.0	740.6	834.9	901.0	952.9	1165.2	1419.9	1476.5	1419.9
77.5°	358.5	372.6	429.2	523.6	533.0	575.5	594.4	693.4	849.2	919.9	882.1
80°	202.8	202.8	231.1	268.9	330.2	386.9	396.3	476.4	547.2	594.4	603.8
82.5°	94.4	99.1	122.6	165.1	217.0	268.9	278.3	330.2	382.1	429.2	443.5
85°	47.2	51.9	70.7	99.1	132.1	160.4	155.7	160.4	169.8	160.4	165.1
87.5°	14.1	14.1	18.8	23.5	18.8	23.5	23.5	28.3	33.1	37.8	42.5
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°	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7	7429.7
2.5°	7472.2	7486.4	7392.1	7481.6	7448.7	7443.9	7510.0	7500.5	7524.1	7514.7	7458.1
5°	7476.9	7443.9	7543.0	7453.4	7495.8	7585.4	7524.1	7665.6	7594.9	7642.1	7538.3
7.5°	7623.2	7632.6	7613.7	7651.5	7632.6	7675.1	7642.1	7675.1	7618.5	7623.2	7717.5
10°	7750.6	7722.2	7755.3	7708.1	7741.2	7726.9	7651.5	7627.9	7646.8	7623.2	7684.5
12.5°	7986.4	7934.5	7911.0	7854.4	7816.6	7675.1	7557.1	7491.1	7580.7	7594.9	7566.6
15°	8227.0	8231.7	8123.2	7995.8	7760.0	7547.7	7576.0	7599.6	7599.6	7637.4	7566.6
17.5°	8378.0	8378.0	8278.9	8024.1	7783.5	7660.9	7632.6	7557.1	7491.1	7481.6	7476.9
20°	8642.1	8561.9	8335.5	8019.4	7774.1	7717.5	7505.3	7326.0	7189.2	7142.0	7137.3
22.5°	8944.0	8741.2	8425.1	8028.9	7760.0	7679.8	7283.6	7014.6	6769.4	6665.6	6679.7
25°	9222.3	8896.9	8477.0	7986.4	7708.1	7321.2	6877.9	6505.1	6250.5	6165.5	6123.1
27.5°	9415.8	9061.9	8477.0	8024.1	7514.7	6920.3	6467.5	5990.9	5769.3	5712.7	5722.1
30°	9675.2	9269.5	8623.3	7943.9	7127.9	6401.4	5858.9	5547.6	5415.5	5368.3	5401.3
32.5°	10283.7	9812.0	8826.1	7750.6	6670.3	5882.5	5443.8	5269.2	5075.9	4981.5	4948.4
35°	10944.2	10326.2	9024.2	7425.0	6156.1	5410.7	5137.2	4976.8	4745.6	4641.8	4660.7
37.5°	11878.2	10986.7	9038.4	6887.3	5599.5	5146.6	4896.6	4646.5	4457.9	4297.5	4250.3
40°	13137.7	11887.6	9005.3	6321.2	5151.3	4835.2	4651.2	4339.9	4127.6	4014.4	4038.1
42.5°	14246.3	12944.3	8868.5	5679.6	4745.6	4623.0	4415.4	4108.8	3901.2	3783.3	3773.8
45°	15180.3	13722.7	8609.1	5132.5	4406.0	4387.1	4146.6	3910.6	3745.6	3637.1	3684.3
47.5°	16043.6	14350.1	8217.6	4585.2	4094.7	4132.3	3901.2	3755.0	3651.2	3552.1	3547.4
50°	16354.9	14340.6	7873.2	4132.3	3844.6	3825.7	3816.3	3660.6	3552.1	3467.2	3505.0
52.5°	16873.8	14501.0	7500.5	3821.0	3618.2	3622.9	3655.9	3542.7	3420.1	3368.1	3415.3
55°	17619.2	14524.6	6679.7	3457.8	3429.5	3462.5	3462.5	3387.0	3283.3	3240.8	3217.2
56°	17010.7	13821.8	5990.9	3363.4	3335.2	3335.2	3424.8	3339.9	3212.5	3179.5	3151.1
57.5°	15689.8	12109.3	5014.5	3250.2	3207.7	3273.8	3321.0	3231.4	3113.5	3066.3	3094.5
60°	10821.5	8193.9	3769.1	3004.9	3004.9	3113.5	3151.1	3019.1	2967.2	2962.5	2924.7
62.5°	6316.5	4773.9	2948.3	2783.2	2792.6	2882.3	2910.6	2835.1	2769.1	2849.2	2887.0
65°	3349.3	2849.2	2528.5	2547.4	2552.1	2622.8	2745.4	2740.7	2736.0	2759.7	2764.4
67.5°	2424.7	2368.1	2297.4	2278.4	2287.9	2339.7	2462.4	2556.8	2552.1	2495.5	2453.0
70°	2160.5	2080.3	2037.9	2042.6	2004.9	2066.2	2165.2	2226.5	2118.1	2052.0	2023.7
72.5°	1797.3	1773.7	1745.4	1750.1	1674.7	1660.5	1547.3	1547.3	1519.0	1500.1	1533.1
75°	1372.8	1363.3	1377.5	1353.8	1273.7	1188.8	1122.7	1061.4	967.1	929.3	910.5
77.5°	868.0	896.3	929.3	877.4	844.4	783.1	717.0	655.7	580.2	537.7	537.7
80°	589.6	613.3	636.8	627.4	589.6	533.0	481.1	415.1	363.2	330.2	325.5
82.5°	448.2	467.0	500.1	462.3	424.5	377.4	335.0	287.8	240.6	202.8	202.8
85°	160.4	184.0	202.8	221.7	235.9	240.6	207.6	169.8	136.8	108.5	103.8
87.5°	42.5	47.2	51.9	47.2	47.2	47.2	51.9	47.2	42.5	33.1	33.1
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)