

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: P651083

Luminaire Tested: **GALN-SA8C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28163.4 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

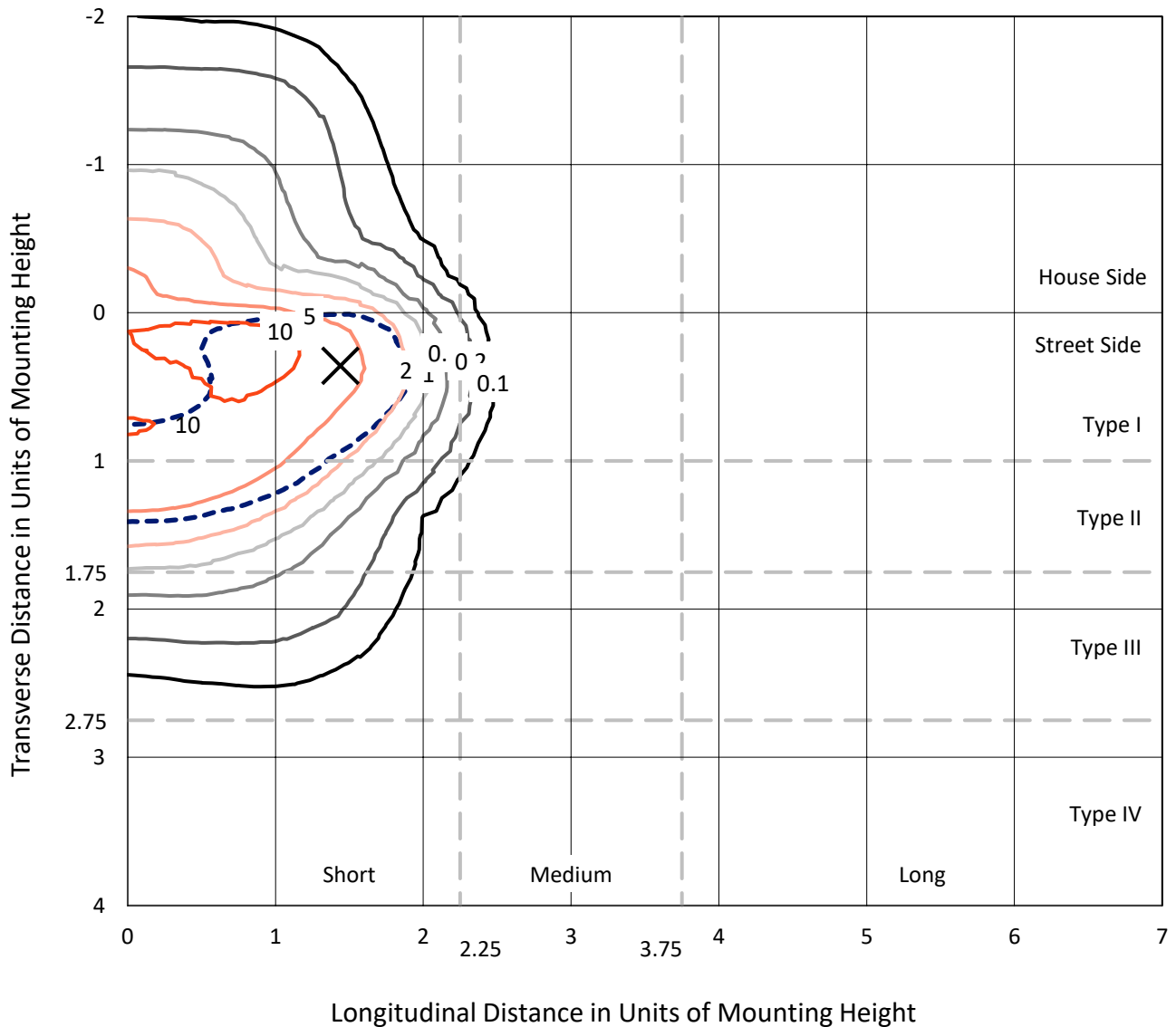
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

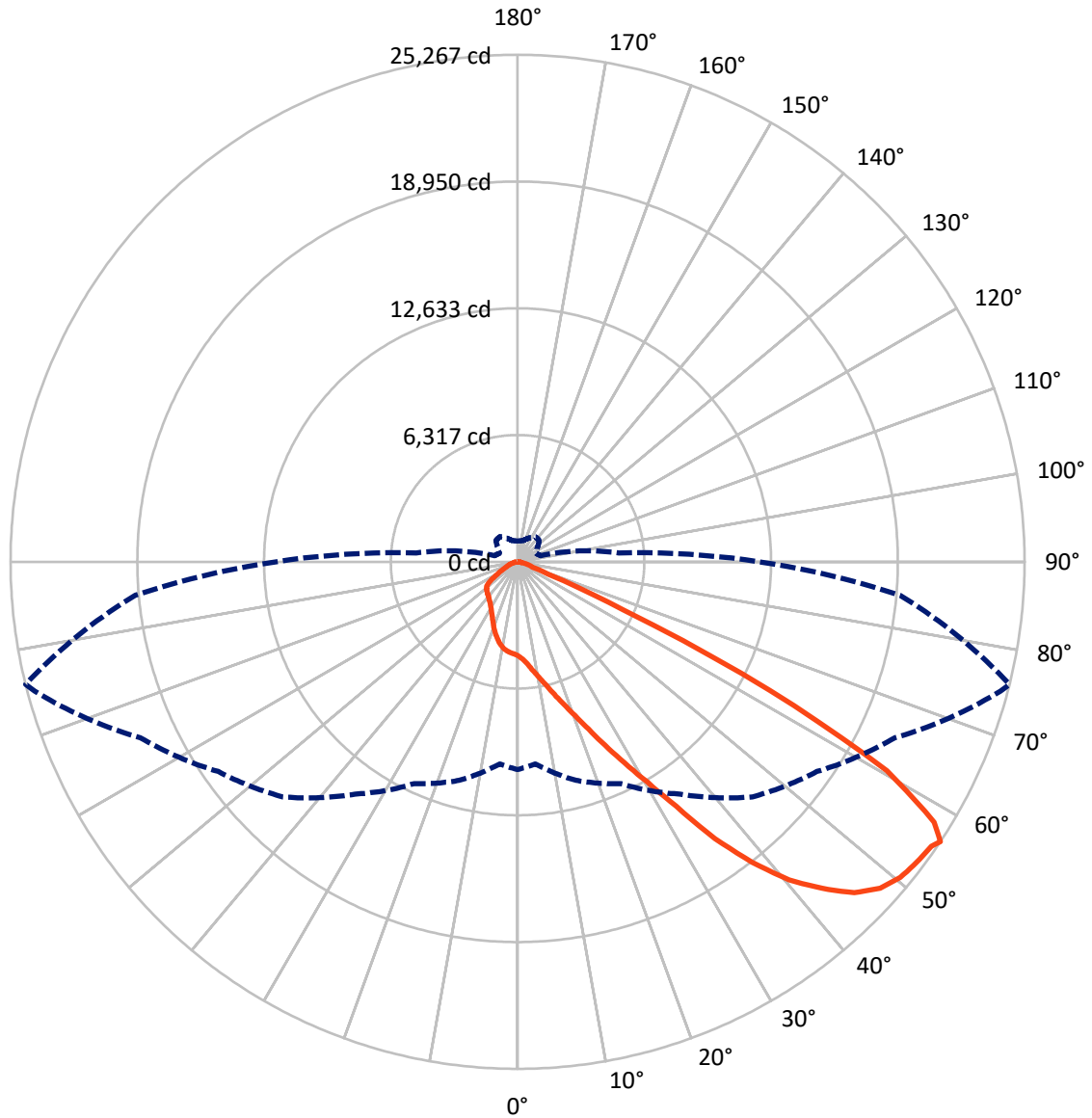
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4424.3	0.0	4424.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	23739.1	0.0	23739.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	28163.4	0.0	28163.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.2	1.7
10°-20°	1517.1	5.4
20°-30°	2750.9	9.8
30°-40°	4744.1	16.8
40°-50°	7707.0	27.4
50°-60°	8123.4	28.8
60°-70°	2482.1	8.8
70°-80°	318.2	1.1
80°-90°	48.3	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°	28163.4	100.0
0°-180°	28163.4	100.0

Coefficient of Utilization

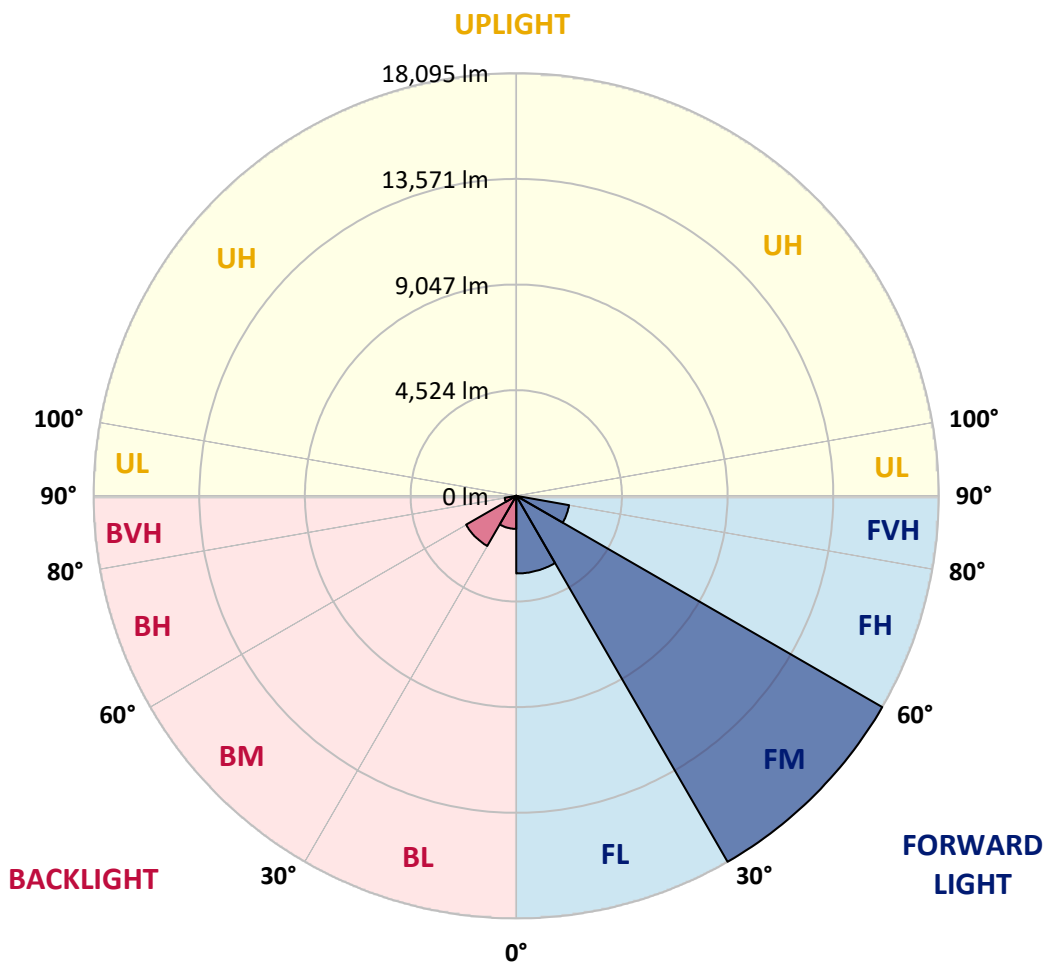


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3324.9	11.8			
FM (30°-60°)	18095.0	64.2			
FH (60°-80°)	2295.5	8.2			G2/5000
FVH (80°-90°)	23.7	0.1			G1/100
BL (0°-30°)	1415.3	5.0	B3/2500		
BM (30°-60°)	2479.6	8.8	B2/2500		
BH (60°-80°)	504.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	24.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8
2.5°	5399.1	5274.5	5279.6	5269.3	5253.7	5196.6	5025.3	4999.3	4885.1	4854.0	4750.1
5°	6048.0	5939.0	6001.3	5907.9	5819.6	5767.7	5487.4	5357.5	5175.9	5108.3	4963.0
7.5°	6452.9	6401.0	6380.2	6385.5	6302.4	6172.6	6048.0	5762.4	5518.5	5466.6	5160.3
10°	6650.2	6619.0	6650.2	6634.6	6671.0	6686.5	6468.5	6297.2	5939.0	5850.8	5373.1
12.5°	6696.9	6759.2	6785.2	6852.6	6940.9	7091.5	7075.9	6842.3	6364.7	6307.6	5700.1
15°	6811.1	6863.1	6837.1	6946.1	7112.3	7366.6	7501.6	7465.2	6951.3	6847.5	6079.2
17.5°	6915.0	6821.5	6909.7	7127.8	7293.9	7683.3	8010.4	8160.9	7589.9	7470.4	6426.9
20°	7055.1	7029.2	7013.6	7122.6	7418.5	7937.7	8586.6	8861.7	8306.2	8181.7	6925.3
22.5°	7480.8	7486.0	7475.6	7314.7	7527.5	8114.1	9090.1	9770.2	9162.9	9059.0	7491.2
25°	8041.5	7974.0	7922.1	7792.3	7766.4	8275.1	9598.9	10881.2	10190.7	10118.1	8103.8
27.5°	8633.3	8633.3	8477.5	8358.2	8192.0	8674.8	10066.2	11961.0	11431.5	11332.8	8638.5
30°	9277.1	9313.4	9292.6	9038.2	8934.4	9110.9	10543.8	13342.0	12853.9	12729.3	9521.0
32.5°	10227.1	10149.2	10237.5	10024.6	9718.3	9874.1	11296.5	14577.5	14702.1	14525.6	10678.8
35°	11483.4	11436.7	11379.6	11031.7	10668.3	10793.0	12360.8	16098.6	17022.6	16934.4	11846.8
37.5°	12610.0	12584.0	12537.3	12298.4	11877.9	12028.5	13570.4	17681.9	19286.1	18995.3	13497.6
40°	13793.6	13933.8	13783.1	13570.4	13186.2	13518.4	14992.8	18621.6	21191.3	20838.3	14759.2
42.5°	15397.7	15288.7	15356.2	14966.9	14759.2	15122.6	16420.4	19561.2	22670.9	22250.3	16098.6
45°	17105.7	17110.9	16929.2	16804.6	16264.7	16659.2	17297.8	20080.4	23849.3	23522.3	17110.9
47.5°	18201.1	18195.9	18393.2	18590.5	18035.0	17645.6	17894.8	20573.6	24456.7	24306.2	17479.5
50°	18029.8	18081.7	18336.1	19073.2	19363.9	18839.7	18455.5	20428.2	24731.9	24716.3	17796.1
52.5°	15683.2	15854.5	16280.2	17344.5	18808.5	19457.4	19042.1	20698.1	24866.9	24892.8	18268.5
55°	11940.3	12033.7	12843.6	14136.2	15755.9	17977.8	18808.5	20911.0	24970.6	25017.4	18839.7
56°	10356.8	10107.6	11275.7	12194.6	14131.0	16560.6	18216.6	20744.9	24908.4	25266.6	19125.2
57.5°	7818.3	7652.2	8597.0	9744.2	11608.0	14172.5	16378.9	19961.0	24487.9	24482.7	18715.0
60°	4755.4	4589.2	5316.0	5990.9	7034.4	8726.7	11068.1	15896.1	20703.3	21139.4	15153.7
62.5°	2829.3	2933.2	3649.5	4059.7	4397.1	4573.6	5726.1	9448.4	13814.4	14125.9	9401.6
65°	1884.5	1920.8	2460.8	3135.6	3286.1	2616.4	2330.9	3826.0	5990.9	5798.8	3878.0
67.5°	1162.9	1245.9	1650.9	2356.9	2611.3	1910.4	1105.7	1427.6	1650.9	1650.9	1121.3
70°	706.0	747.6	1100.6	1604.1	1791.1	1230.4	804.7	804.7	794.3	778.7	669.7
72.5°	337.4	363.4	560.7	825.4	841.0	648.9	622.9	680.0	664.5	659.3	555.5
75°	145.3	155.8	197.3	259.5	295.9	275.2	379.0	488.0	503.6	488.0	399.7
77.5°	46.8	51.9	72.7	93.4	98.6	119.4	161.0	202.4	233.6	218.1	197.3
80°	5.2	10.3	20.8	46.8	72.7	93.4	119.4	135.0	150.5	150.5	140.2
82.5°	5.2	5.2	20.8	41.5	67.4	88.2	114.2	129.8	150.5	155.8	145.3
85°	0.0	5.2	15.6	36.3	57.1	57.1	51.9	51.9	36.3	36.3	36.3
87.5°	0.0	0.0	5.2	5.2	5.2	10.3	10.3	10.3	10.3	10.3	10.3
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°	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8	4687.8
2.5°	4729.4	4719.0	4578.8	4490.6	4443.8	4350.4	4293.3	4251.8	4220.6	4184.3	4189.4
5°	4791.7	4755.4	4521.7	4360.8	4168.7	4064.9	3976.6	3903.9	3857.2	3846.8	3826.0
7.5°	4968.2	4776.1	4423.1	4132.3	3888.4	3784.5	3706.6	3659.9	3680.7	3634.0	3670.3
10°	5103.2	4817.7	4303.6	3883.1	3639.2	3561.3	3519.8	3556.1	3608.1	3587.3	3561.3
12.5°	5269.3	4859.1	4111.6	3644.4	3416.0	3358.9	3431.5	3499.0	3602.8	3644.4	3592.4
15°	5456.2	4905.9	3867.6	3369.2	3223.9	3270.6	3395.2	3514.6	3618.4	3670.3	3701.5
17.5°	5684.6	4890.3	3628.8	3151.1	3042.1	3177.1	3327.7	3436.7	3592.4	3670.3	3649.5
20°	5897.4	4838.4	3364.0	2933.2	2938.4	3062.9	3187.6	3364.0	3447.1	3551.0	3514.6
22.5°	6099.9	4744.9	3088.9	2782.6	2782.6	2974.7	3036.9	3151.1	3223.9	3275.8	3270.6
25°	6385.5	4568.5	2860.5	2637.2	2699.5	2824.2	2876.1	2912.4	2881.3	2922.7	2927.9
27.5°	6587.9	4386.7	2673.5	2507.4	2621.6	2715.1	2699.5	2678.8	2606.1	2549.0	2585.3
30°	6806.0	4173.9	2512.7	2419.2	2481.5	2564.5	2502.2	2440.0	2325.8	2232.3	2237.5
32.5°	7117.4	4075.2	2372.5	2315.4	2398.4	2408.8	2341.3	2247.9	2133.7	2045.4	2040.2
35°	7698.9	4013.0	2253.0	2247.9	2263.5	2268.7	2201.1	2086.9	2040.2	1967.5	1993.5
37.5°	8280.3	3981.8	2170.0	2149.3	2144.0	2149.3	2071.4	1962.4	2050.6	2045.4	2055.8
40°	9022.7	4122.0	2050.6	2024.6	2029.8	2029.8	1931.2	1900.1	2055.8	2071.4	2076.6
42.5°	9775.4	4298.5	1972.7	1889.6	1910.4	1910.4	1858.5	1822.2	1931.2	1827.4	1811.8
45°	10429.6	4558.1	1889.6	1754.7	1806.6	1832.5	1817.0	1754.7	1687.2	1510.7	1510.7
47.5°	10642.4	4786.5	1791.1	1624.9	1666.4	1780.6	1733.9	1604.1	1484.7	1339.4	1329.0
50°	11016.2	5035.7	1713.2	1474.4	1562.6	1702.8	1656.1	1526.2	1391.3	1287.5	1292.7
52.5°	11400.3	5321.2	1567.8	1297.8	1406.9	1640.5	1640.5	1495.1	1287.5	1214.8	1204.4
55°	11976.6	5310.8	1308.3	1064.2	1256.3	1547.0	1573.0	1339.4	1152.5	1095.4	1095.4
56°	12059.6	5072.0	1178.4	996.8	1188.8	1521.1	1526.2	1297.8	1100.6	1038.3	1038.3
57.5°	11436.7	4578.8	1033.1	913.7	1105.7	1474.4	1479.6	1261.5	1059.1	970.8	960.4
60°	8799.5	3099.3	861.8	815.0	1002.0	1329.0	1354.9	1147.3	929.2	861.8	856.6
62.5°	4968.2	1718.3	757.9	737.2	861.8	1131.7	1209.6	1002.0	789.1	752.8	763.1
65°	2268.7	944.9	638.6	597.0	695.7	872.1	976.0	825.4	648.9	607.4	607.4
67.5°	830.7	643.7	545.1	472.4	488.0	565.8	633.4	534.7	430.9	368.6	384.2
70°	591.8	539.9	477.6	410.2	379.0	368.6	363.4	301.1	212.9	166.1	176.5
72.5°	477.6	446.5	399.7	347.8	295.9	249.2	212.9	155.8	98.6	67.4	62.3
75°	342.6	327.1	290.7	249.2	207.6	176.5	145.3	98.6	51.9	26.0	26.0
77.5°	176.5	176.5	171.3	155.8	129.8	103.9	83.1	57.1	31.1	10.3	10.3
80°	135.0	145.3	150.5	135.0	119.4	93.4	67.4	41.5	20.8	5.2	5.2
82.5°	129.8	150.5	161.0	140.2	119.4	88.2	67.4	41.5	20.8	5.2	5.2
85°	31.1	31.1	46.8	51.9	67.4	72.7	57.1	36.3	15.6	5.2	5.2
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	5.2	5.2	5.2	5.2	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)