

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: P457549

Luminaire Tested: **GALN-SA8D-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45538 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

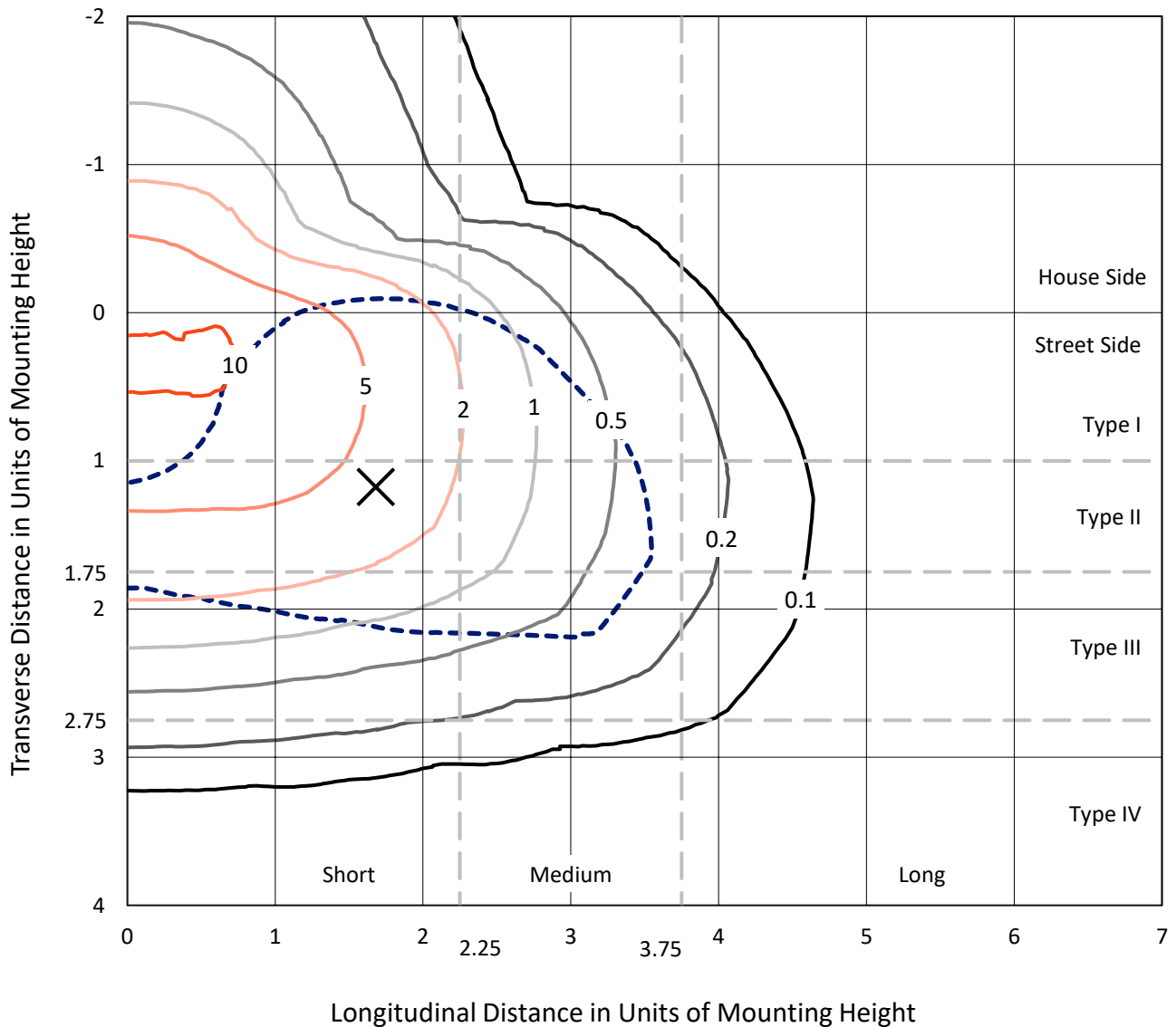
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

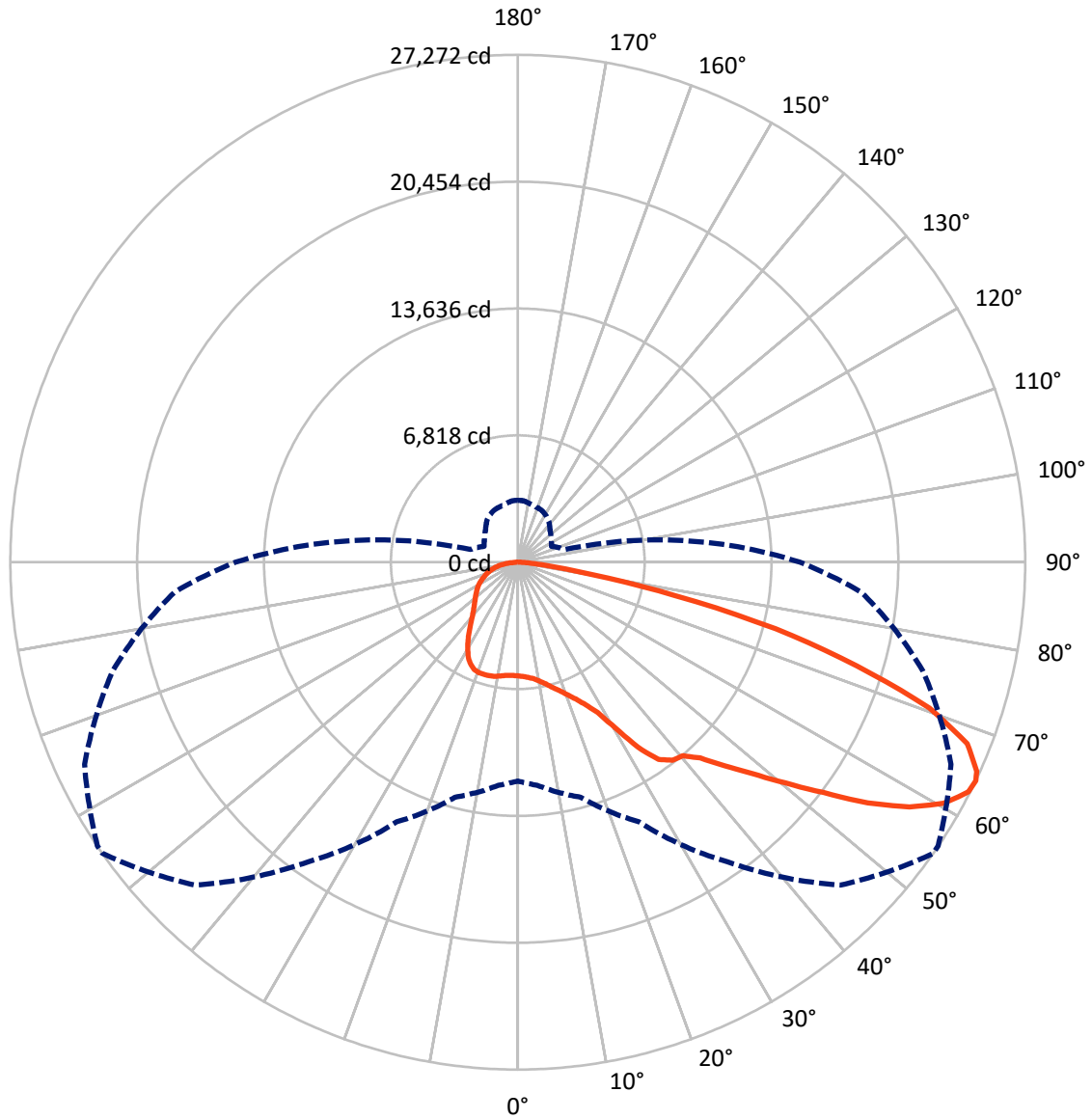
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11062.1	0.0	11062.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	34475.9	0.0	34475.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	45538.0	0.0	45538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	1.3
10°-20°	1875.3	4.1
20°-30°	3338.5	7.3
30°-40°	5136.6	11.3
40°-50°	7281.5	16.0
50°-60°	10539.9	23.1
60°-70°	10907.6	24.0
70°-80°	5108.1	11.2
80°-90°	756.2	1.7
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°	45538.0	100.0
0°-180°	45538.0	100.0

Coefficient of Utilization



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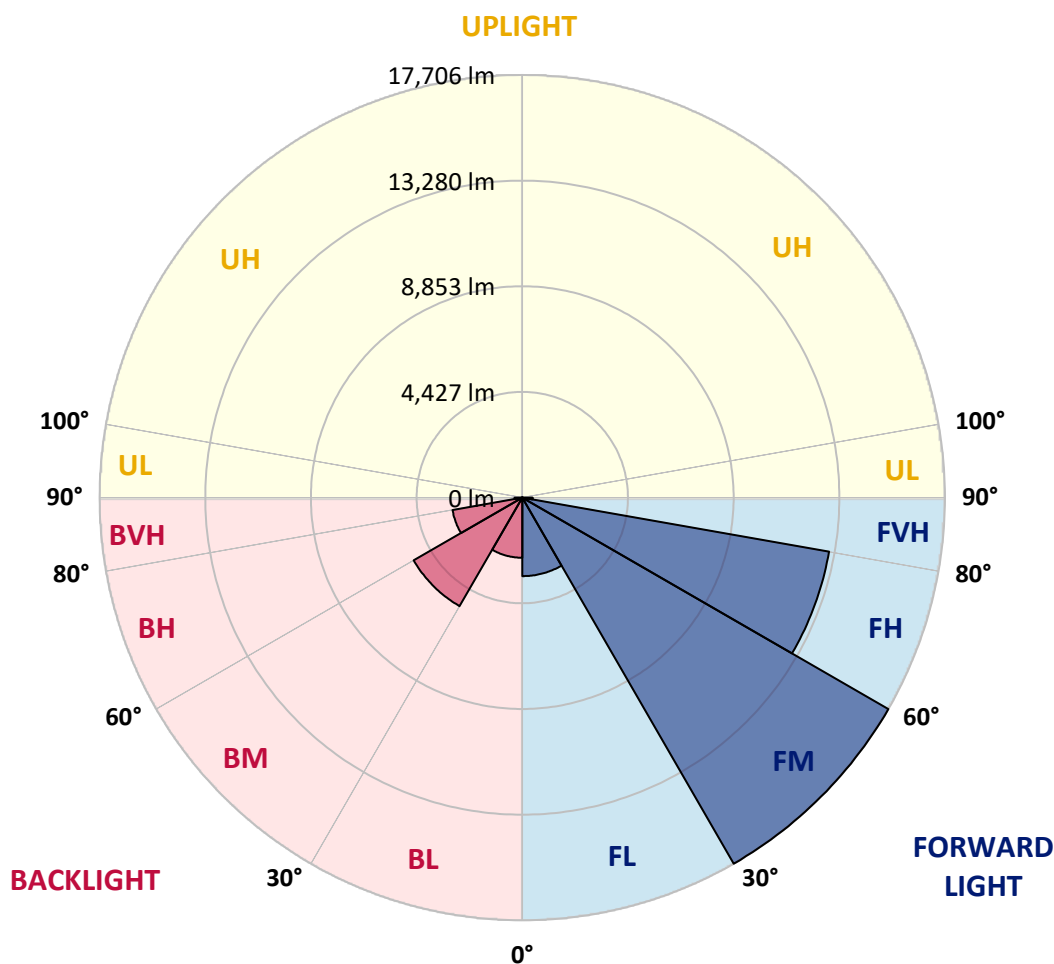
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3288.6	7.2			
FM	(30°-60°)	17706.4	38.9			
FH	(60°-80°)	13048.0	28.7			G5
FVH	(80°-90°)	433.0	1.0			G3/500
BL	(0°-30°)	2519.5	5.5	B4/5000		
BM	(30°-60°)	5251.6	11.5	B4/8500		
BH	(60°-80°)	2967.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	323.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8
2.5°	6178.4	6175.8	6183.4	6175.8	6180.9	6163.1	6155.5	6160.6	6153.0	6140.3	6117.4
5°	6254.5	6252.0	6254.5	6244.4	6249.4	6239.3	6221.5	6226.6	6213.9	6186.0	6153.0
7.5°	6384.0	6373.8	6373.8	6371.3	6361.1	6345.9	6333.2	6328.1	6315.4	6279.9	6229.1
10°	6551.5	6551.5	6554.0	6533.7	6546.4	6518.5	6505.8	6503.3	6460.1	6414.4	6343.4
12.5°	6772.3	6785.0	6777.4	6767.3	6762.2	6752.0	6708.9	6719.0	6670.8	6592.1	6505.8
15°	7046.5	7066.8	7054.1	7049.0	7036.3	6998.3	6980.5	6972.9	6909.4	6795.2	6681.0
17.5°	7409.5	7384.1	7373.9	7361.2	7307.9	7280.0	7249.5	7244.5	7188.6	7054.1	6876.4
20°	7726.8	7762.3	7742.0	7729.3	7676.0	7622.7	7599.8	7592.2	7544.0	7396.8	7112.5
22.5°	8105.0	8112.6	8120.2	8089.7	8064.4	8023.7	7983.1	7970.4	7952.7	7800.4	7452.6
25°	8508.6	8539.0	8513.6	8483.2	8452.7	8450.2	8488.3	8483.2	8475.6	8328.3	7904.4
27.5°	9166.0	9193.9	9201.5	9168.5	9051.8	9061.9	9148.2	9176.2	9292.9	9049.2	8485.7
30°	9536.6	9564.5	9628.0	9752.4	9937.7	10100.1	10308.3	10371.7	10483.4	10024.0	9176.2
32.5°	9765.1	9775.2	9889.4	10120.4	10676.3	11283.0	11849.1	11871.9	11943.0	11298.2	9808.2
35°	10125.5	10133.1	10224.5	10478.3	11130.7	12141.0	13016.7	13044.6	12986.2	11694.2	10102.7
37.5°	10569.7	10590.0	10648.4	10859.1	11638.4	12859.3	13501.5	13481.2	12963.4	12009.0	10623.0
40°	11217.0	11217.0	11148.5	11432.8	12174.0	13270.5	13671.6	13636.1	13499.0	12920.2	11415.0
42.5°	11788.1	11778.0	11940.4	12133.3	12844.1	13905.1	14384.9	14443.3	14669.2	14065.0	12316.1
45°	12531.9	12577.6	12668.9	13019.2	13983.8	14989.0	15608.4	15664.2	15984.0	15412.9	13369.5
47.5°	13283.2	13298.5	13585.3	14052.3	15395.1	16458.7	16966.4	17057.8	17349.7	16989.2	14504.2
50°	13816.3	13961.0	14420.4	15156.5	16849.6	18250.8	18646.8	18755.9	19271.2	18705.2	15826.7
52.5°	14379.8	14521.9	15082.9	16204.9	18519.9	20083.5	20570.8	20644.5	21180.1	20441.4	17179.6
55°	14862.1	14994.1	15631.2	17133.9	19850.0	21954.2	22837.6	22751.3	23007.7	21779.1	18222.9
57.5°	14940.8	15047.4	15849.5	17727.9	20850.1	23558.5	24825.1	24875.9	24578.9	22779.2	19083.4
60°	14331.6	14549.9	15471.3	17664.4	21299.4	24675.4	26307.5	26343.1	25500.3	23292.0	19426.0
62.5°	13252.8	13229.9	14344.3	16644.0	20669.8	24929.2	27180.7	27142.7	25860.8	23045.7	19093.5
64°	11762.7	12036.9	13077.6	15390.1	19654.5	24538.3	27272.1	27251.8	25688.2	22533.0	18527.5
65°	10854.0	10838.8	11866.8	14364.6	18644.2	23949.4	27109.7	27081.7	25327.7	22073.6	18088.3
67.5°	7835.9	7871.4	8886.8	11085.0	15156.5	21647.1	26051.2	25947.1	23906.2	20550.5	16418.1
70°	4746.7	4767.0	5564.1	7353.6	10879.4	17499.4	23482.3	23487.4	21730.9	18276.2	13973.7
72.5°	2500.3	2553.6	2873.4	4175.6	6607.3	12278.0	19050.4	19502.2	18656.9	15598.2	11039.3
75°	1391.0	1398.6	1624.5	2058.6	3370.9	6871.3	14318.9	14448.3	14770.7	12554.7	8163.4
77.5°	1061.0	1076.3	1147.3	1330.1	1835.2	3185.6	8666.0	9315.8	10409.8	8851.3	4657.9
80°	860.5	875.7	936.7	1045.8	1220.9	1510.3	4025.8	4376.1	5571.7	3929.4	1817.5
82.5°	670.1	660.0	738.7	809.7	888.4	893.5	1652.5	1827.6	2269.3	1690.5	786.9
85°	497.5	497.5	561.0	545.7	573.7	522.9	728.5	804.7	908.7	718.4	365.5
87.5°	198.0	218.3	368.1	330.0	256.4	205.6	269.1	284.3	314.8	281.8	152.3
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°	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8	6109.8
2.5°	6120.0	6127.6	6109.8	6097.1	6092.1	6084.4	6076.8	6079.4	6089.5	6099.7	6097.1
5°	6150.4	6153.0	6122.5	6107.3	6097.1	6087.0	6087.0	6094.6	6114.9	6130.1	6130.1
7.5°	6226.6	6226.6	6183.4	6155.5	6140.3	6122.5	6117.4	6120.0	6135.2	6155.5	6158.1
10°	6345.9	6335.7	6279.9	6236.7	6208.8	6165.7	6127.6	6107.3	6114.9	6127.6	6127.6
12.5°	6490.6	6462.7	6391.6	6333.2	6264.7	6183.4	6104.7	6064.1	6061.6	6074.3	6069.2
15°	6645.4	6615.0	6516.0	6409.4	6290.0	6170.7	6076.8	6018.4	5972.8	5960.1	5988.0
17.5°	6825.6	6762.2	6625.1	6477.9	6300.2	6145.4	5998.1	5878.8	5797.6	5774.8	5782.4
20°	7043.9	6960.2	6774.9	6543.9	6292.6	6054.0	5825.5	5665.6	5533.6	5493.0	5498.1
22.5°	7346.0	7201.3	6929.7	6576.9	6229.1	5881.4	5564.1	5355.9	5196.0	5132.6	5170.6
25°	7688.7	7531.3	7076.9	6569.3	6064.1	5604.7	5254.4	4982.8	4838.1	4744.2	4764.5
27.5°	8160.8	7881.6	7234.3	6500.7	5828.1	5267.1	4861.0	4604.6	4472.6	4424.4	4447.2
30°	8764.9	8336.0	7404.4	6315.4	5454.9	4840.6	4465.0	4297.4	4218.7	4157.8	4178.1
32.5°	9201.5	8655.8	7442.5	6003.2	5051.3	4452.3	4195.9	4071.5	3985.2	3926.8	3939.5
35°	9513.8	8927.4	7424.7	5619.9	4630.0	4132.4	3982.7	3881.1	3741.5	3614.6	3591.8
37.5°	9932.6	9267.5	7295.2	5201.1	4213.7	3916.7	3810.1	3622.2	3421.7	3251.6	3244.0
40°	10574.8	9666.1	7018.6	4708.7	3858.3	3756.8	3627.3	3383.6	3167.9	3030.8	3020.6
42.5°	11237.3	10034.1	6642.9	4190.8	3566.4	3589.2	3431.9	3190.7	3058.7	2969.9	2959.7
45°	12047.0	10432.6	6236.7	3741.5	3350.6	3431.9	3261.8	3122.2	3043.5	2985.1	2969.9
47.5°	12922.8	10841.3	5779.8	3337.9	3167.9	3287.2	3190.7	3127.3	3084.1	3043.5	3025.7
50°	13867.0	11298.2	5350.9	3013.0	3002.9	3137.4	3183.1	3160.3	3134.9	3122.2	3106.9
52.5°	14902.7	11765.3	4990.4	2784.6	2858.2	3030.8	3185.6	3203.4	3203.4	3195.8	3185.6
55°	15603.3	12090.2	4624.9	2599.3	2711.0	2944.5	3180.6	3249.1	3274.5	3264.3	3254.2
57.5°	16121.1	12267.9	4165.4	2439.4	2586.6	2860.7	3152.6	3254.2	3279.6	3292.2	3287.2
60°	16227.7	12102.9	3563.9	2271.8	2452.1	2738.9	3051.1	3178.0	3211.0	3289.7	3297.3
62.5°	15748.0	11595.2	2964.8	2106.8	2287.1	2553.6	2914.0	3091.7	3157.7	3279.6	3292.2
64°	15159.1	11026.6	2632.3	2002.8	2180.4	2449.5	2845.5	3068.9	3155.2	3317.6	3327.8
65°	14727.5	10612.9	2424.1	1936.8	2111.9	2381.0	2807.4	3076.5	3178.0	3376.0	3391.2
67.5°	13138.5	9188.9	2005.3	1781.9	1949.5	2264.2	2815.0	3139.9	3172.9	3398.9	3396.3
70°	10871.8	7315.5	1680.4	1639.8	1792.1	2170.3	2784.6	3038.4	3041.0	3190.7	3155.2
72.5°	8140.5	5406.7	1457.0	1492.6	1616.9	1946.9	2629.7	2901.3	2858.2	2878.5	2843.0
75°	5592.0	3576.5	1253.9	1335.2	1434.2	1721.0	2411.4	2634.8	2566.3	2540.9	2515.5
77.5°	2985.1	1977.4	1043.3	1180.3	1246.3	1487.5	2104.3	2320.1	2249.0	2150.0	2117.0
80°	1208.3	931.6	840.2	977.3	1015.3	1198.1	1751.5	1886.0	1832.7	1660.1	1604.2
82.5°	606.7	558.4	660.0	769.1	771.7	855.4	1302.2	1429.1	1309.8	1099.1	1050.9
85°	317.3	327.4	454.4	540.7	477.2	462.0	781.8	865.6	794.5	690.4	621.9
87.5°	114.2	132.0	238.6	236.1	167.5	88.8	172.6	83.8	45.7	27.9	35.5
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)