

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: P651028

Luminaire Tested: **GALN-SA7C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651028
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-SA7C-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 24293.1 lumens
Efficiency: N/A
Efficacy: 64.4 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

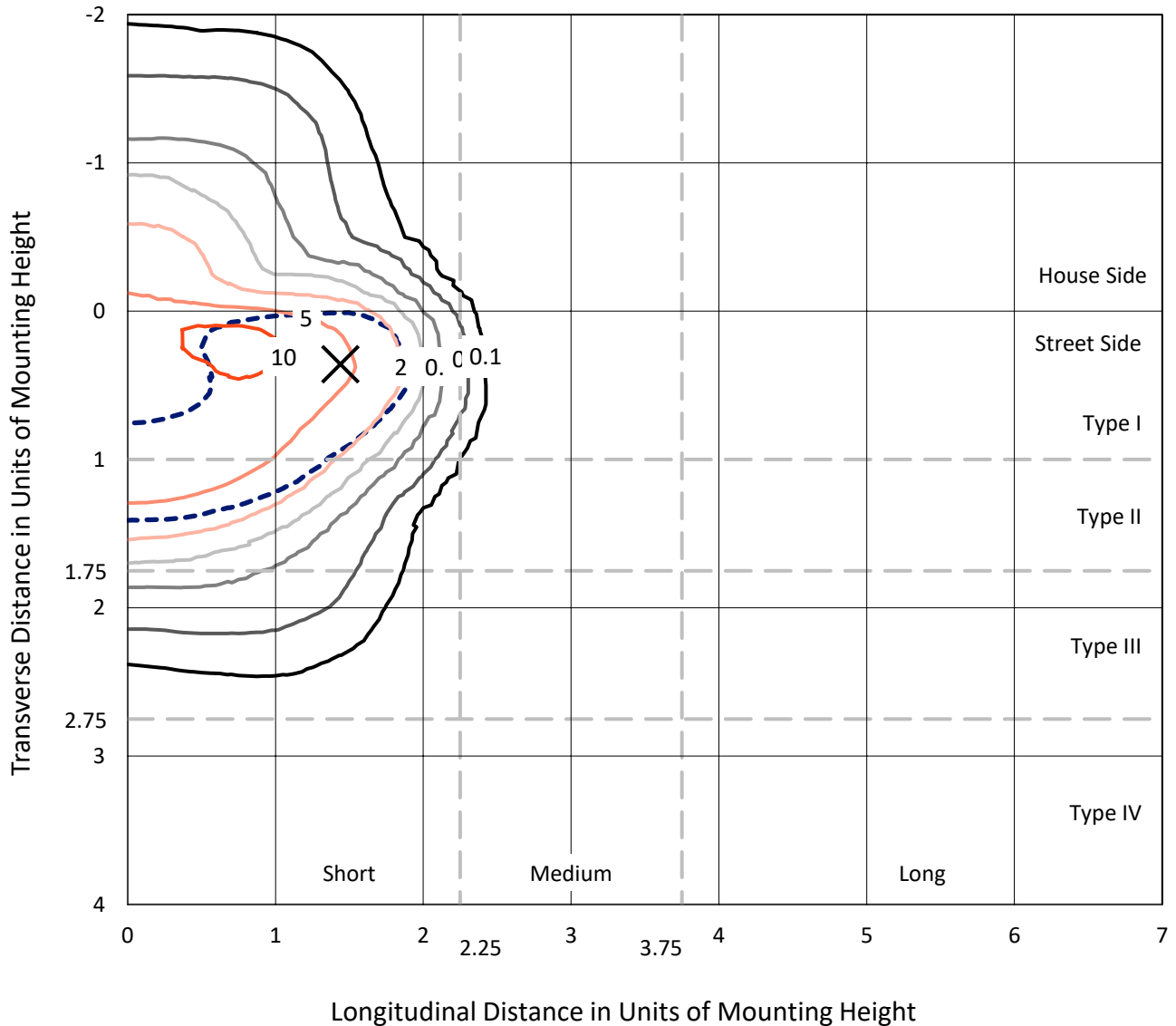
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

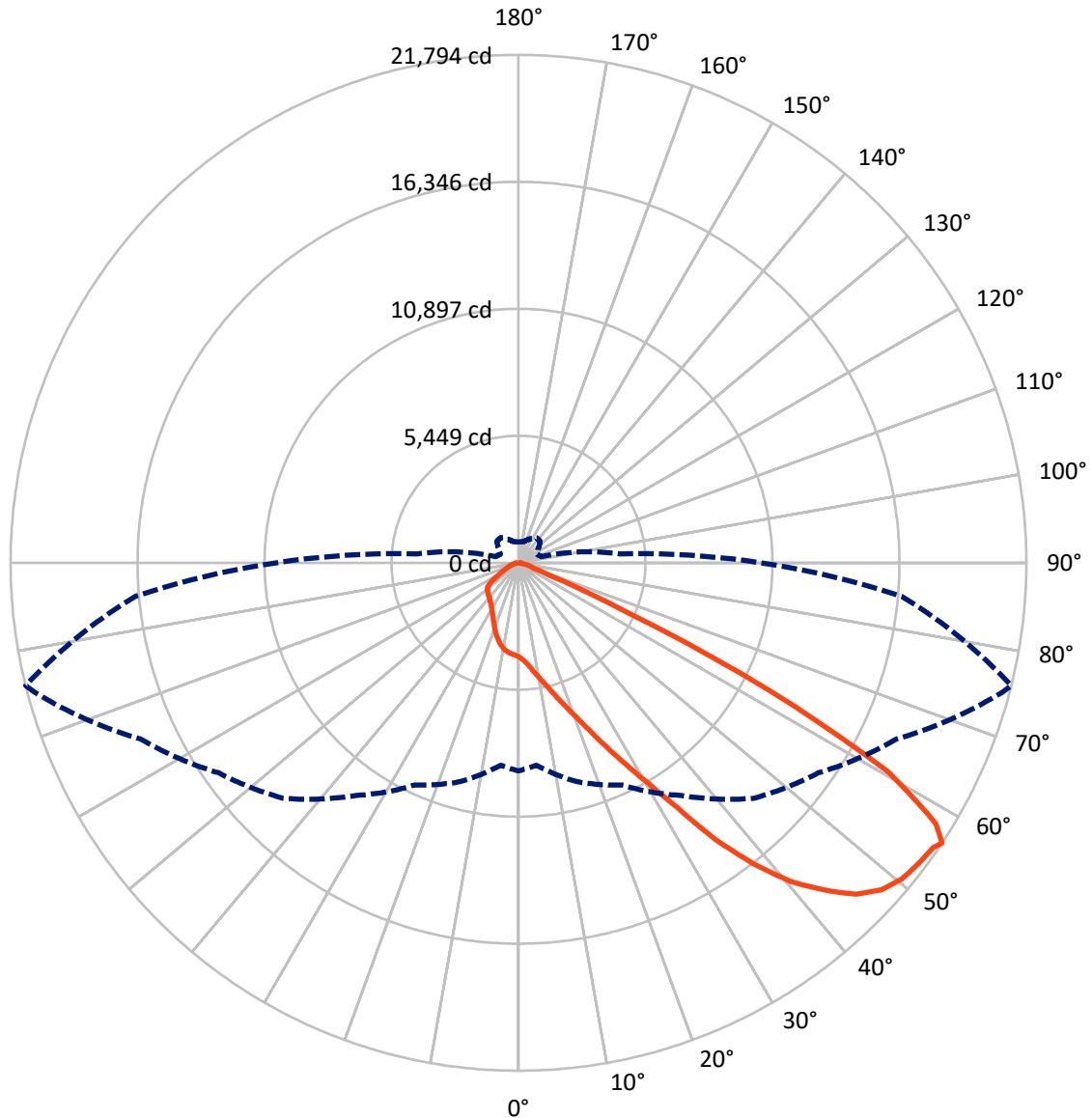
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	3816.3	0.0	3816.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	20476.8	0.0	20476.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	24293.1	0.0	24293.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	1.7
10°-20°	1308.6	5.4
20°-30°	2372.9	9.8
30°-40°	4092.2	16.8
40°-50°	6647.9	27.4
50°-60°	7007.1	28.8
60°-70°	2141.0	8.8
70°-80°	274.4	1.1
80°-90°	41.7	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°	24293.1	100.0
0°-180°	24293.1	100.0

Coefficient of Utilization

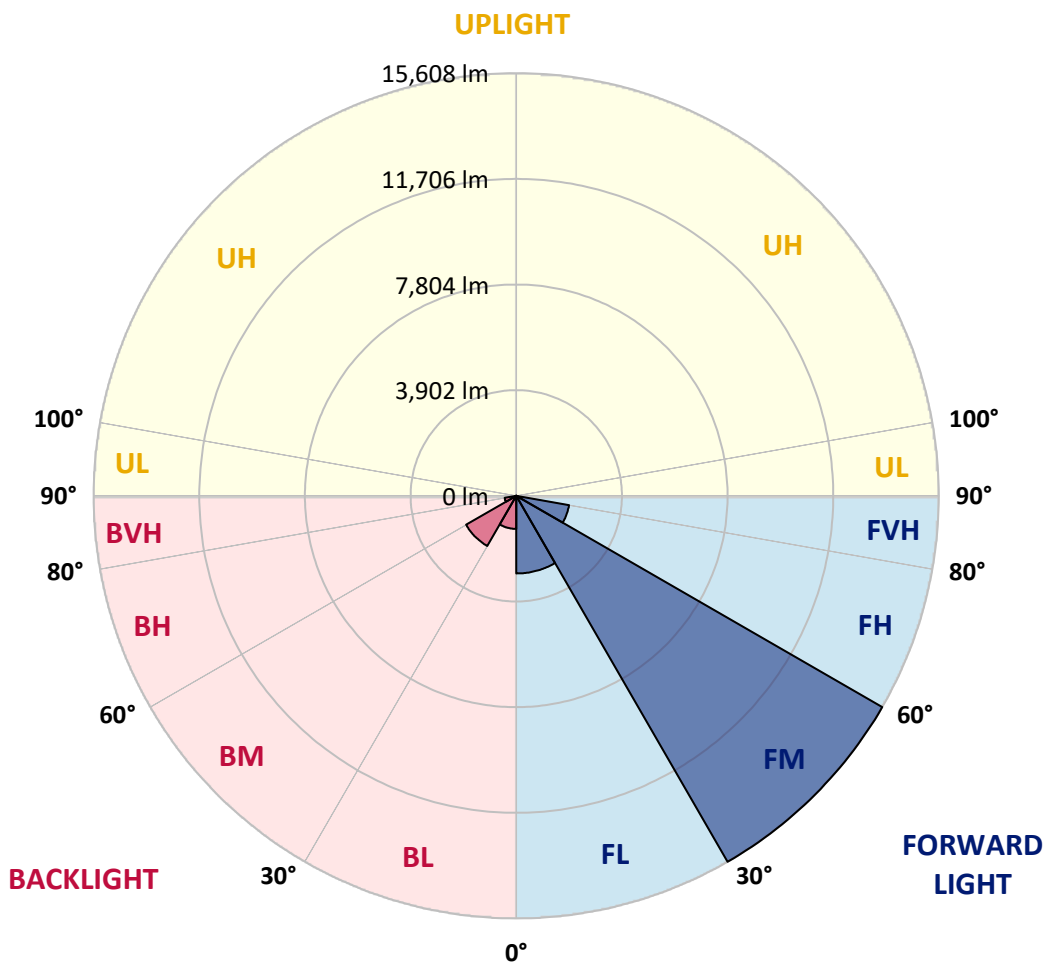


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2868.0	11.8			
FM (30°-60°)	15608.3	64.2			
FH (60°-80°)	1980.0	8.2			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	1220.8	5.0	B3/2500		
BM (30°-60°)	2138.8	8.8	B2/2500		
BH (60°-80°)	435.4	1.8	B1/500		G1/500
BVH (80°-90°)	21.3	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°	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6
2.5°	4657.1	4549.6	4554.1	4545.2	4531.7	4482.4	4334.7	4312.3	4213.8	4186.9	4097.4
5°	5216.9	5122.8	5176.5	5096.0	5019.8	4975.0	4733.2	4621.3	4464.5	4406.3	4280.9
7.5°	5566.2	5521.3	5503.4	5508.0	5436.3	5324.4	5216.9	4970.6	4760.1	4715.3	4451.2
10°	5736.3	5709.5	5736.3	5722.8	5754.2	5767.7	5579.6	5431.8	5122.8	5046.7	4634.8
12.5°	5776.6	5830.3	5852.8	5911.0	5987.1	6116.9	6103.5	5902.0	5490.0	5440.8	4916.8
15°	5875.1	5919.9	5897.5	5991.5	6134.8	6354.3	6470.7	6439.4	5996.0	5906.5	5243.7
17.5°	5964.7	5884.1	5960.2	6148.3	6291.6	6627.4	6909.6	7039.4	6546.8	6443.8	5543.8
20°	6085.6	6063.2	6049.7	6143.8	6399.1	6846.8	7406.6	7643.9	7164.8	7057.3	5973.6
22.5°	6452.8	6457.3	6448.3	6309.5	6493.1	6999.1	7841.0	8427.6	7903.6	7814.1	6461.7
25°	6936.4	6878.2	6833.4	6721.4	6699.1	7137.9	8279.8	9385.9	8790.3	8727.6	6990.1
27.5°	7446.9	7446.9	7312.6	7209.6	7066.3	7482.7	8682.8	10317.3	9860.6	9775.4	7451.3
30°	8002.2	8033.5	8015.6	7796.2	7706.6	7858.9	9094.8	11508.4	11087.5	10980.0	8212.6
32.5°	8821.7	8754.5	8830.6	8647.0	8382.8	8517.1	9744.1	12574.2	12681.7	12529.4	9211.2
35°	9905.3	9865.0	9815.7	9515.7	9202.3	9309.8	10662.1	13886.3	14683.4	14607.2	10218.7
37.5°	10877.1	10854.6	10814.3	10608.4	10245.7	10375.5	11705.5	15252.0	16635.7	16385.0	11642.8
40°	11898.0	12018.9	11889.0	11705.5	11374.1	11660.7	12932.5	16062.6	18279.1	17974.7	12731.0
42.5°	13281.7	13187.7	13245.9	12910.0	12731.0	13044.4	14163.9	16873.1	19555.4	19192.7	13886.3
45°	14755.0	14759.5	14602.7	14495.2	14029.6	14369.9	14920.7	17320.9	20571.9	20289.8	14759.5
47.5°	15699.9	15695.3	15865.5	16035.7	15556.6	15220.7	15435.6	17746.3	21095.8	20966.0	15077.4
50°	15552.1	15596.8	15816.3	16452.1	16702.9	16250.6	15919.3	17620.9	21333.1	21319.7	15350.5
52.5°	13528.0	13675.8	14043.0	14961.0	16223.7	16783.5	16425.3	17853.8	21449.6	21472.0	15758.1
55°	10299.4	10380.0	11078.6	12193.6	13590.7	15507.3	16223.7	18037.3	21539.1	21579.5	16250.6
56°	8933.6	8718.6	9726.2	10518.8	12189.1	14284.8	15713.2	17894.0	21485.4	21794.4	16496.9
57.5°	6743.9	6600.6	7415.5	8405.2	10012.8	12224.9	14128.0	17217.9	21122.7	21118.2	16143.2
60°	4101.8	3958.6	4585.5	5167.6	6067.6	7527.5	9547.1	13711.6	17858.2	18234.4	13071.2
62.5°	2440.5	2530.1	3148.0	3501.8	3792.8	3945.1	4939.2	8150.0	11916.0	12184.6	8109.7
65°	1625.5	1656.9	2122.6	2704.7	2834.6	2256.9	2010.6	3300.3	5167.6	5001.9	3345.1
67.5°	1003.1	1074.7	1424.0	2033.0	2252.5	1647.9	953.8	1231.5	1424.0	1424.0	967.2
70°	609.0	644.8	949.3	1383.7	1544.9	1061.3	694.1	694.1	685.2	671.7	577.7
72.5°	291.1	313.4	483.7	712.0	725.4	559.8	537.4	586.6	573.1	568.7	479.1
75°	125.4	134.3	170.1	223.9	255.2	237.3	326.9	420.9	434.4	420.9	344.8
77.5°	40.3	44.7	62.7	80.6	85.1	103.0	138.8	174.7	201.5	188.0	170.1
80°	4.5	8.9	17.9	40.3	62.7	80.6	103.0	116.4	129.9	129.9	120.9
82.5°	4.5	4.5	17.9	35.8	58.2	76.1	98.5	111.9	129.9	134.3	125.4
85°	0.0	4.5	13.5	31.4	49.3	49.3	44.7	44.7	31.4	31.4	31.4
87.5°	0.0	0.0	4.5	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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°	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6	4043.6
2.5°	4079.4	4070.5	3949.6	3873.5	3833.2	3752.5	3703.3	3667.5	3640.6	3609.2	3613.8
5°	4133.2	4101.8	3900.3	3761.5	3595.9	3506.3	3430.1	3367.4	3327.2	3318.2	3300.3
7.5°	4285.4	4119.7	3815.3	3564.5	3354.0	3264.4	3197.3	3156.9	3174.9	3134.6	3165.9
10°	4401.9	4155.5	3712.3	3349.5	3139.0	3071.9	3036.1	3067.5	3112.2	3094.3	3071.9
12.5°	4545.2	4191.4	3546.6	3143.6	2946.5	2897.2	2960.0	3018.2	3107.7	3143.6	3098.7
15°	4706.4	4231.7	3336.1	2906.2	2780.9	2821.1	2928.6	3031.6	3121.1	3165.9	3192.8
17.5°	4903.4	4218.3	3130.1	2718.1	2624.1	2740.6	2870.4	2964.4	3098.7	3165.9	3148.0
20°	5087.0	4173.5	2901.7	2530.1	2534.5	2642.0	2749.5	2901.7	2973.4	3062.9	3031.6
22.5°	5261.6	4092.9	2664.4	2400.2	2400.2	2565.9	2619.6	2718.1	2780.9	2825.6	2821.1
25°	5508.0	3940.7	2467.4	2274.8	2328.6	2436.0	2480.8	2512.2	2485.3	2521.1	2525.6
27.5°	5682.6	3783.9	2306.2	2162.9	2261.4	2342.0	2328.6	2310.6	2248.0	2198.7	2230.1
30°	5870.7	3600.3	2167.3	2086.8	2140.5	2212.2	2158.4	2104.7	2006.1	1925.6	1930.0
32.5°	6139.3	3515.2	2046.4	1997.2	2068.9	2077.8	2019.6	1939.0	1840.4	1764.3	1759.9
35°	6640.9	3461.5	1943.5	1939.0	1952.4	1956.9	1898.6	1800.2	1759.9	1697.1	1719.5
37.5°	7142.4	3434.6	1871.8	1853.9	1849.4	1853.9	1786.7	1692.7	1768.8	1764.3	1773.2
40°	7782.8	3555.5	1768.8	1746.4	1750.9	1750.9	1665.9	1638.9	1773.2	1786.7	1791.2
42.5°	8432.0	3707.8	1701.6	1630.0	1647.9	1647.9	1603.1	1571.7	1665.9	1576.3	1562.8
45°	8996.3	3931.7	1630.0	1513.5	1558.4	1580.7	1567.3	1513.5	1455.4	1303.1	1303.1
47.5°	9179.9	4128.7	1544.9	1401.6	1437.4	1535.9	1495.6	1383.7	1280.7	1155.3	1146.4
50°	9502.3	4343.7	1477.7	1271.8	1347.9	1468.8	1428.4	1316.5	1200.1	1110.5	1115.0
52.5°	9833.6	4589.9	1352.3	1119.5	1213.6	1415.1	1415.1	1289.7	1110.5	1047.9	1038.9
55°	10330.8	4581.0	1128.5	918.0	1083.7	1334.4	1356.9	1155.3	994.1	944.9	944.9
56°	10402.4	4375.0	1016.5	859.8	1025.4	1312.0	1316.5	1119.5	949.3	895.6	895.6
57.5°	9865.0	3949.6	891.1	788.1	953.8	1271.8	1276.2	1088.2	913.5	837.4	828.5
60°	7590.2	2673.4	743.4	703.1	864.2	1146.4	1168.7	989.6	801.6	743.4	738.9
62.5°	4285.4	1482.2	653.8	635.9	743.4	976.2	1043.3	864.2	680.6	649.3	658.3
65°	1956.9	815.0	550.8	514.9	600.1	752.3	841.8	712.0	559.8	523.9	523.9
67.5°	716.4	555.3	470.2	407.5	420.9	488.1	546.3	461.2	371.6	317.9	331.4
70°	510.5	465.7	412.0	353.7	326.9	317.9	313.4	259.7	183.6	143.3	152.2
72.5°	412.0	385.1	344.8	300.0	255.2	215.0	183.6	134.3	85.1	58.2	53.7
75°	295.5	282.2	250.8	215.0	179.1	152.2	125.4	85.1	44.7	22.4	22.4
77.5°	152.2	152.2	147.8	134.3	111.9	89.6	71.7	49.3	26.8	8.9	8.9
80°	116.4	125.4	129.9	116.4	103.0	80.6	58.2	35.8	17.9	4.5	4.5
82.5°	111.9	129.9	138.8	120.9	103.0	76.1	58.2	35.8	17.9	4.5	4.5
85°	26.8	26.8	40.3	44.7	58.2	62.7	49.3	31.4	13.5	4.5	4.5
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	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)