

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: P457283

Luminaire Tested: **GALN-SA8C-760-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42440 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

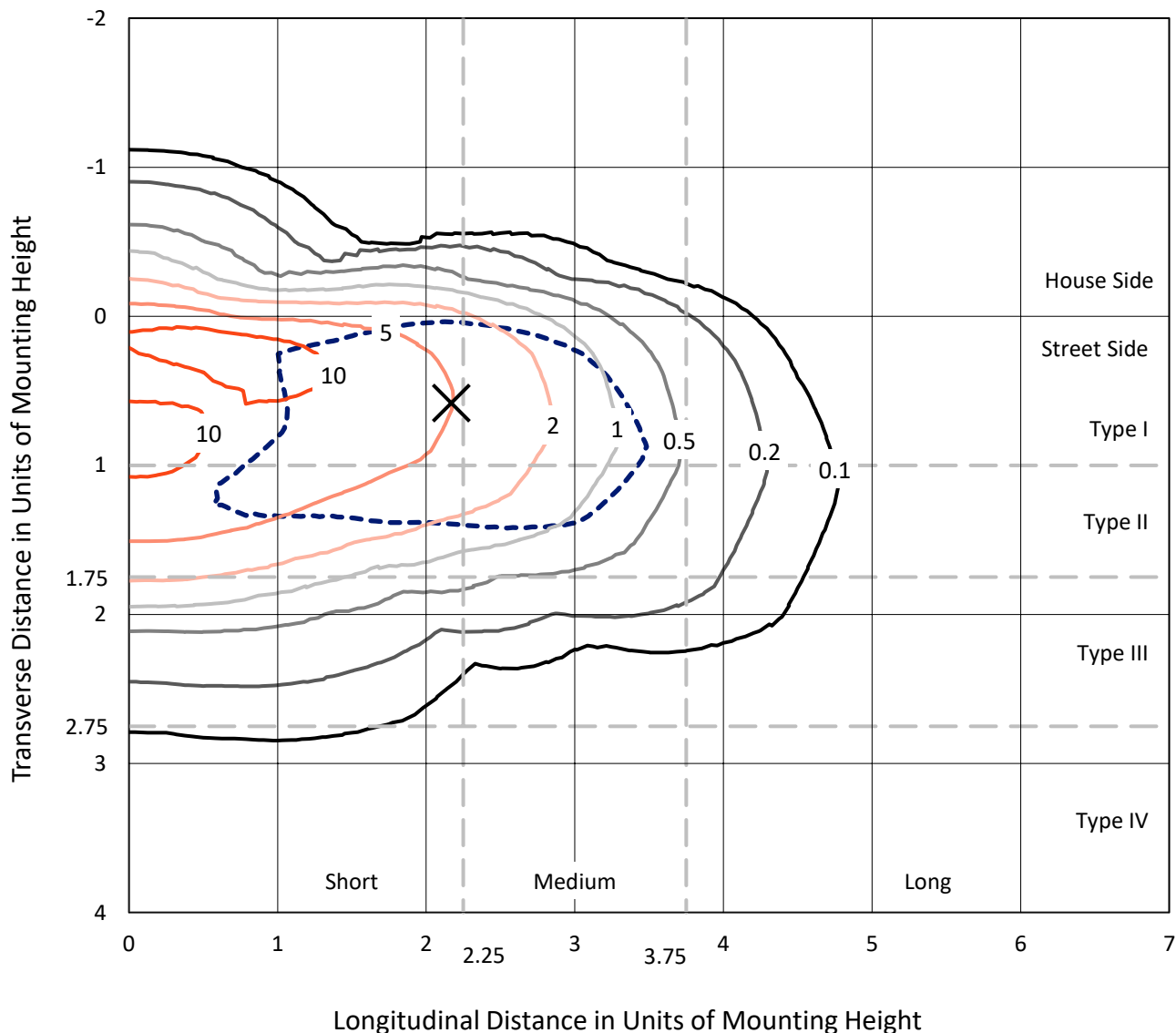
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

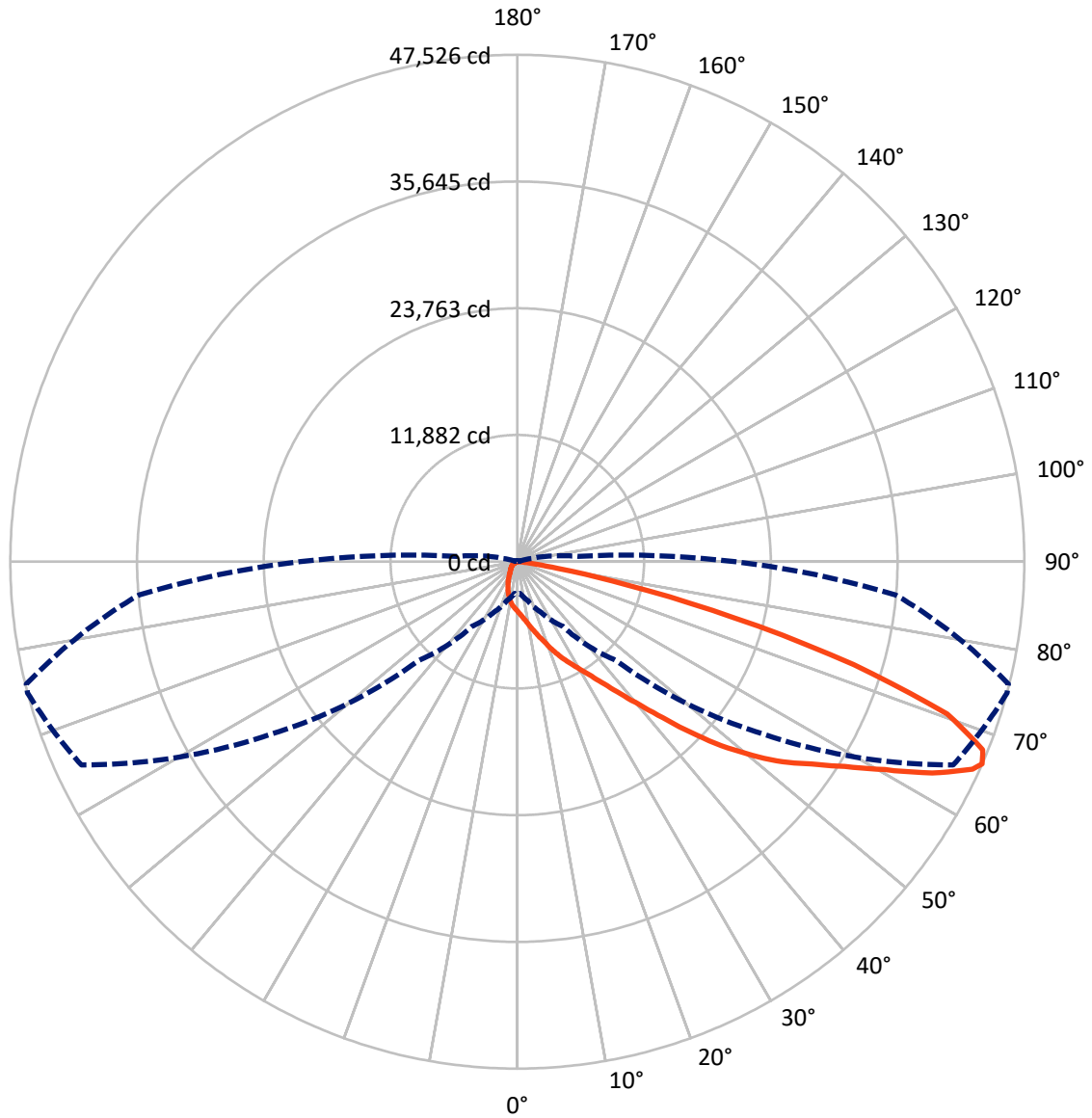
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2620.1	0.0	2620.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	39819.9	0.0	39819.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	42440.0	0.0	42440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.7	1.1
10°-20°	1317.5	3.1
20°-30°	2275.0	5.4
30°-40°	4103.6	9.7
40°-50°	7413.2	17.5
50°-60°	11557.3	27.2
60°-70°	10979.0	25.9
70°-80°	4114.6	9.7
80°-90°	232.1	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°	42440.0	100.0
0°-180°	42440.0	100.0

Coefficient of Utilization



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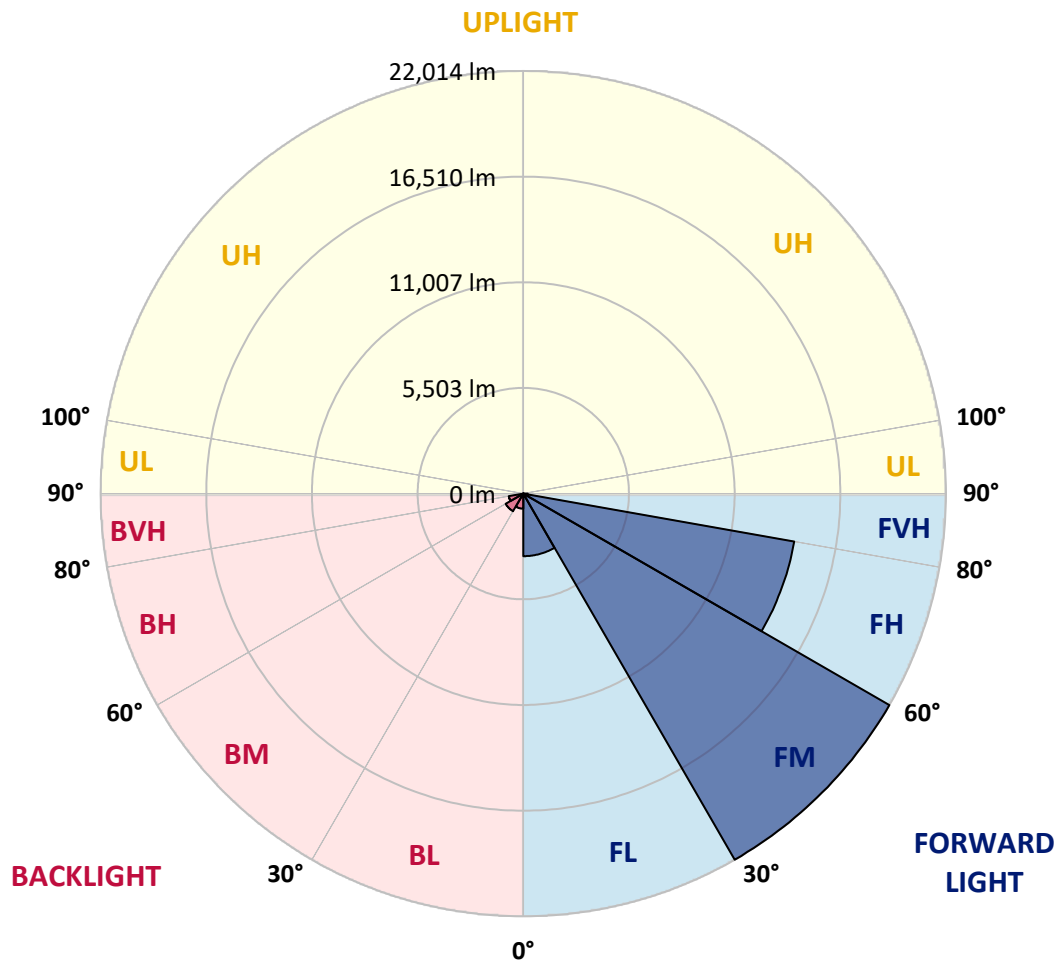
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3257.6	7.7			
FM	(30°-60°)	22013.6	51.9			
FH	(60°-80°)	14328.5	33.8			G5
FVH	(80°-90°)	220.2	0.5			G2/225
BL	(0°-30°)	782.5	1.8	B2/1000		
BM	(30°-60°)	1060.5	2.5	B2/2500		
BH	(60°-80°)	765.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	12.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2
2.5°	5545.0	5476.0	5497.9	5466.6	5394.4	5287.7	5193.5	5058.6	4923.7	4901.7	4751.1
5°	6276.2	6257.3	6232.2	6141.2	6091.0	5927.8	5733.3	5501.1	5221.8	5171.6	4898.6
7.5°	6775.1	6765.7	6778.3	6731.2	6687.3	6539.8	6332.7	6015.7	5582.7	5554.4	5099.4
10°	6938.3	6963.4	7010.5	7085.8	7154.8	7107.8	6950.9	6555.5	6050.2	5968.6	5328.5
12.5°	6844.2	6872.4	6985.4	7186.2	7409.0	7537.7	7474.9	7186.2	6546.1	6480.2	5585.8
15°	6602.5	6637.1	6797.1	7107.8	7506.3	7870.3	8027.2	7820.1	7123.5	7016.8	5896.5
17.5°	6244.8	6295.0	6524.1	6935.2	7481.2	8108.8	8551.3	8482.3	7738.5	7638.1	6235.4
20°	5974.9	6012.6	6207.1	6677.9	7374.5	8240.6	9050.2	9244.8	8497.9	8325.3	6633.9
22.5°	6153.8	6166.3	6232.2	6514.7	7183.1	8275.1	9489.6	10038.7	9304.4	9150.7	7048.1
25°	7029.3	6903.8	6837.9	6775.1	7142.3	8243.8	9888.1	10867.2	10107.8	9944.6	7459.2
27.5°	8410.1	8353.6	8021.0	7575.3	7490.6	8284.6	10151.7	11651.7	10864.1	10688.3	7860.9
30°	9913.2	9815.9	9612.0	8959.2	8303.4	8573.3	10343.1	12414.3	11758.4	11526.2	8228.1
32.5°	11294.0	11356.7	11052.3	10380.8	9621.4	9188.3	10591.1	13245.9	12784.6	12495.9	8654.8
35°	12903.8	13029.3	12561.8	11918.5	11030.4	10299.2	11074.3	14184.2	14086.9	13722.9	9313.8
37.5°	14538.8	14614.1	14328.5	13424.7	12624.5	11711.3	11984.4	15342.1	15690.4	15379.8	10101.5
40°	15913.2	16016.8	15806.6	15003.2	14149.6	13346.3	13305.5	16603.6	17598.4	17278.3	11275.2
42.5°	16964.5	17043.0	17049.2	16481.2	15712.4	15348.4	14990.7	18213.5	19989.6	19619.3	12637.1
45°	18291.9	18404.9	18339.0	17953.0	17378.7	17312.8	17127.7	20159.1	22851.6	22384.0	14403.8
47.5°	20344.2	20419.5	20256.4	19801.3	19217.7	19321.2	19211.4	22340.1	25770.0	25368.3	16233.3
50°	21768.9	21894.4	22126.7	22308.7	21885.0	21502.2	21175.8	24376.7	28540.9	28180.0	18103.6
52.5°	21753.2	21960.3	22694.7	23611.0	24536.7	24420.6	23482.3	26626.7	31186.3	30740.7	19861.0
55°	20287.7	20689.4	21768.9	23394.5	25958.3	27235.5	26808.7	29231.3	33470.9	33169.6	21897.6
57.5°	17262.6	17507.4	19007.4	21279.4	25164.3	28559.7	30662.3	32761.6	36210.4	36069.2	25060.8
60°	11610.9	11720.8	13650.7	16459.3	21423.7	27238.6	33486.5	37032.6	39583.9	39514.8	28754.3
62.5°	6652.7	6699.8	8099.4	10468.7	15244.8	23083.8	33725.0	42301.4	43628.9	43666.5	33028.4
65°	3580.6	3605.7	4735.4	6144.4	9276.2	16453.0	30326.5	45188.5	46898.7	46970.9	35676.9
66°	3091.0	2971.8	3768.8	5237.5	7380.8	13095.2	28176.9	45084.9	47526.4	47447.9	35582.8
67.5°	2350.4	2457.1	3009.4	4026.2	5469.7	9310.7	23262.7	43079.7	47049.4	46804.6	34136.1
70°	1682.0	1725.9	2143.3	2871.4	3724.9	5108.8	14865.1	35780.5	42762.7	42433.2	29739.7
72.5°	1085.8	1132.9	1518.8	2077.4	2692.5	2789.8	8322.2	25851.6	32968.8	32921.7	22396.5
75°	775.1	819.0	1004.2	1487.5	2024.1	1725.9	4007.3	17422.7	20959.3	20818.1	13854.7
77.5°	561.7	583.7	671.6	972.8	1446.7	1236.4	1857.7	9304.4	10434.1	10926.8	6122.4
80°	323.2	342.1	467.6	593.1	979.1	844.1	888.1	3734.3	3850.4	3665.3	1914.2
82.5°	160.0	182.0	279.3	404.8	611.9	568.0	408.0	1123.4	1186.2	1154.8	483.3
85°	37.7	47.1	156.9	266.7	298.1	254.2	197.7	329.5	408.0	398.5	185.1
87.5°	3.1	6.3	56.5	47.1	50.2	84.7	69.0	84.7	131.8	122.4	65.9
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°	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2	4641.2
2.5°	4682.0	4622.4	4449.8	4280.4	4139.1	3991.6	3856.7	3778.3	3746.9	3712.4	3728.0
5°	4747.9	4603.6	4255.2	3954.0	3659.0	3408.0	3207.1	3078.5	3015.7	3006.3	2990.6
7.5°	4835.8	4587.9	4048.1	3577.4	3191.4	2912.1	2683.1	2497.9	2441.4	2391.2	2350.4
10°	4942.5	4559.6	3790.8	3182.0	2770.9	2419.5	2118.2	1898.5	1785.6	1754.2	1776.2
12.5°	5055.5	4506.3	3520.9	2818.0	2344.2	1895.4	1616.1	1506.3	1474.9	1462.3	1465.5
15°	5168.4	4440.4	3238.5	2466.5	1867.2	1512.6	1383.9	1355.7	1343.1	1336.8	1330.5
17.5°	5272.0	4333.7	2921.6	2124.5	1512.6	1292.9	1245.8	1220.7	1195.6	1186.2	1170.5
20°	5394.4	4211.3	2636.0	1741.6	1280.3	1170.5	1114.0	1067.0	1029.3	1004.2	1001.1
22.5°	5510.5	4054.4	2337.9	1443.5	1167.4	1051.3	960.3	910.0	866.1	834.7	844.1
25°	5573.2	3863.0	2071.1	1258.4	1063.8	932.0	831.6	768.8	721.8	706.1	702.9
27.5°	5573.2	3627.6	1810.7	1151.7	969.7	825.3	721.8	662.1	630.8	608.8	611.9
30°	5529.3	3367.2	1569.0	1070.1	888.1	731.2	633.9	580.5	555.4	539.8	536.6
32.5°	5494.8	3119.3	1361.9	991.6	803.4	649.6	564.9	524.1	499.0	483.3	483.3
35°	5548.1	2905.9	1201.9	913.2	724.9	586.8	511.5	473.9	448.7	436.2	433.1
37.5°	5689.4	2711.3	1079.5	828.5	652.7	533.5	473.9	429.9	404.8	389.1	382.8
40°	6037.7	2601.5	988.5	750.0	583.7	489.5	429.9	389.1	357.7	342.1	338.9
42.5°	6596.3	2604.6	900.6	677.8	530.3	451.9	392.3	345.2	310.7	295.0	291.8
45°	7437.3	2723.9	831.6	608.8	483.3	411.1	351.5	301.3	269.9	254.2	254.2
47.5°	8444.6	2956.1	772.0	549.2	439.3	373.4	310.7	260.5	229.1	216.5	216.5
50°	9536.7	3257.3	712.3	486.4	401.7	332.6	266.7	225.9	200.8	191.4	191.4
52.5°	10650.7	3621.4	652.7	436.2	360.9	288.7	229.1	200.8	178.9	172.6	169.5
55°	12113.0	4085.8	590.0	382.8	316.9	247.9	204.0	175.7	150.6	141.2	138.1
57.5°	14363.0	4785.6	520.9	335.8	260.5	207.1	175.7	147.5	119.2	103.6	100.4
60°	17077.5	5639.1	448.7	295.0	210.3	169.5	141.2	113.0	87.9	69.0	65.9
62.5°	19619.3	6182.0	379.7	247.9	166.3	128.7	100.4	84.7	62.8	43.9	40.8
65°	20742.8	6000.0	313.8	200.8	131.8	91.0	65.9	59.6	37.7	18.8	15.7
66°	20369.3	5730.2	288.7	182.0	119.2	78.5	56.5	50.2	28.2	9.4	9.4
67.5°	19267.9	5093.1	251.0	156.9	103.6	62.8	43.9	37.7	15.7	3.1	0.0
70°	16509.5	4120.3	197.7	116.1	75.3	43.9	25.1	18.8	9.4	0.0	0.0
72.5°	12681.0	3069.1	156.9	87.9	53.3	25.1	12.6	6.3	9.4	0.0	0.0
75°	7769.9	1754.2	122.4	65.9	34.5	15.7	9.4	0.0	9.4	3.1	0.0
77.5°	3448.8	787.7	81.6	43.9	25.1	12.6	6.3	0.0	6.3	3.1	0.0
80°	872.4	257.3	47.1	31.4	18.8	9.4	3.1	0.0	6.3	6.3	3.1
82.5°	238.5	94.1	34.5	25.1	15.7	9.4	3.1	0.0	6.3	6.3	6.3
85°	94.1	43.9	31.4	25.1	18.8	9.4	3.1	0.0	6.3	6.3	6.3
87.5°	43.9	31.4	31.4	28.2	22.0	9.4	3.1	0.0	6.3	3.1	6.3
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)