

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: P457231

Luminaire Tested: **GALN-SA8C-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44448 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

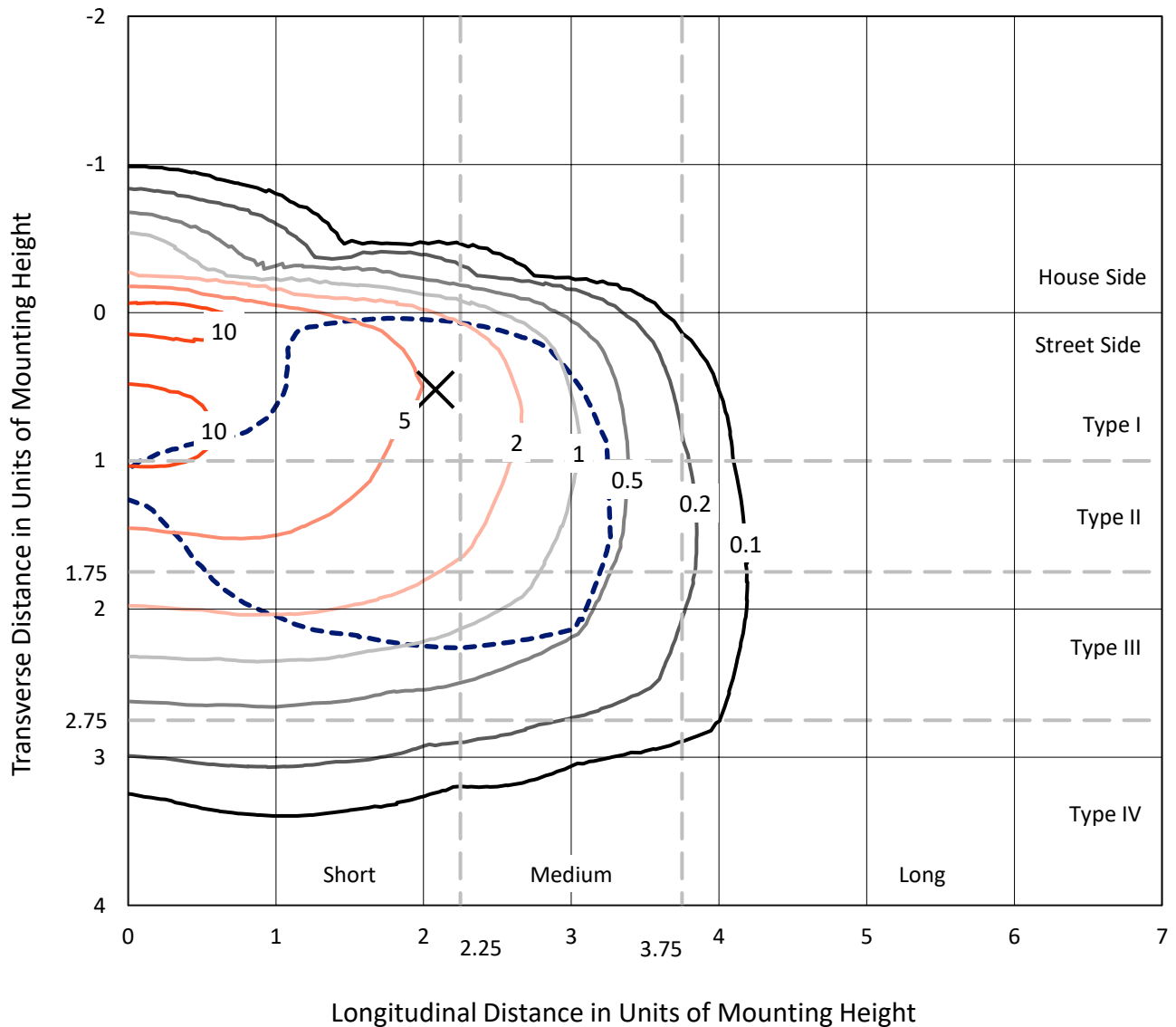
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

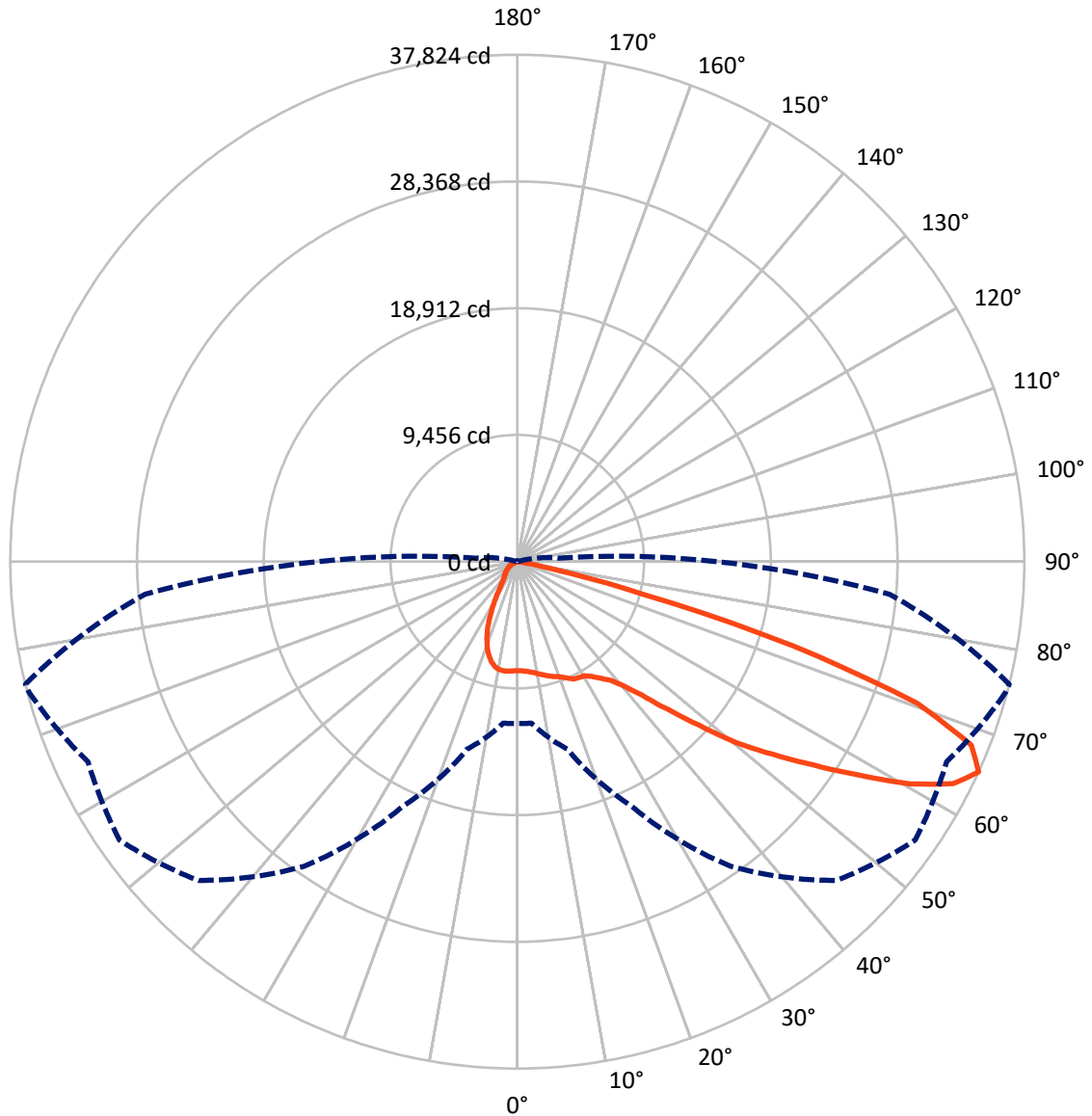
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3210.0	0.0	3210.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	41238.0	0.0	41238.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	44448.0	0.0	44448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.8	1.5
10°-20°	1491.4	3.4
20°-30°	2403.2	5.4
30°-40°	4178.6	9.4
40°-50°	6904.8	15.5
50°-60°	10666.5	24.0
60°-70°	13025.3	29.3
70°-80°	4943.4	11.1
80°-90°	165.0	0.4
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°	44448.0	100.0
0°-180°	44448.0	100.0

Coefficient of Utilization



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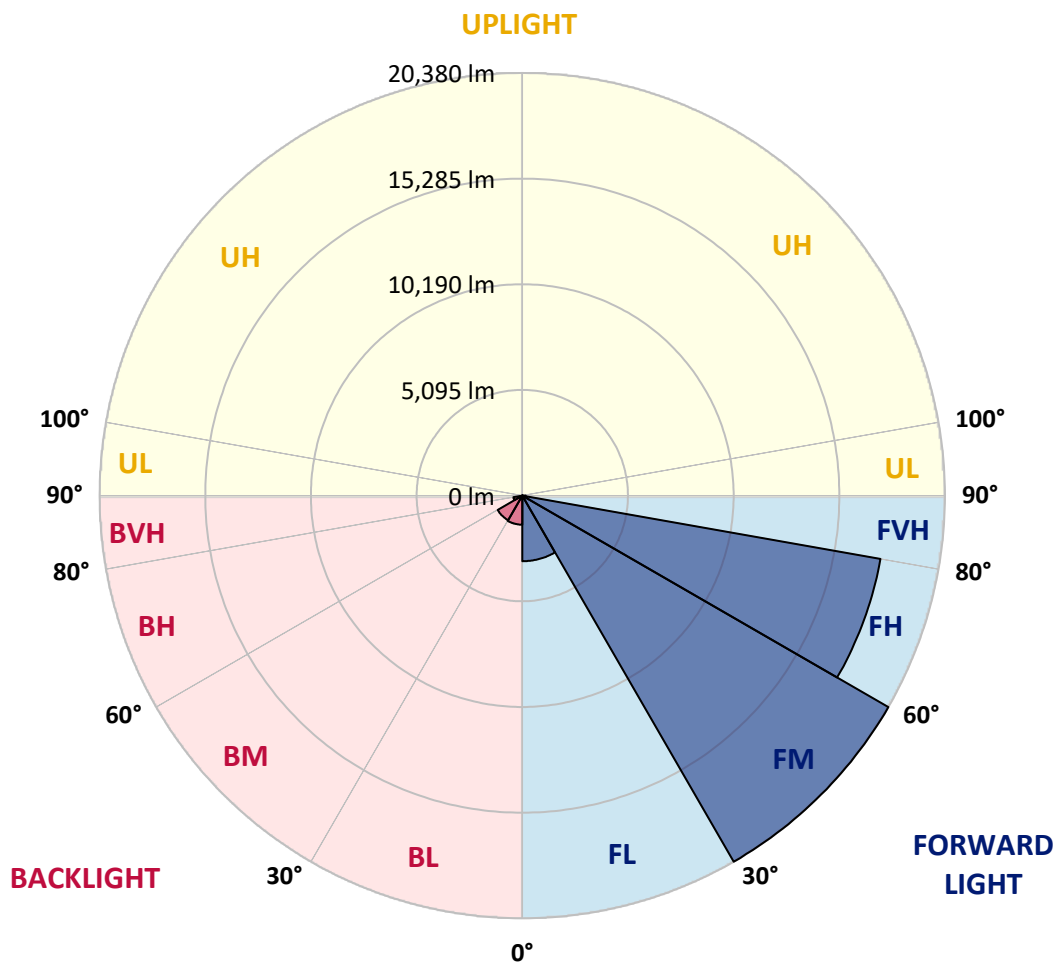
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3162.0	7.1			
FM	(30°-60°)	20380.1	45.9			
FH	(60°-80°)	17533.2	39.4			G5
FVH	(80°-90°)	162.7	0.4			G2/225
BL	(0°-30°)	1402.4	3.2	B3/2500		
BM	(30°-60°)	1369.8	3.1	B2/2500		
BH	(60°-80°)	435.6	1.0	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0
2.5°	7770.1	7773.2	7792.0	7839.1	7911.3	7970.9	8021.1	8102.7	8159.2	8165.5	8184.3
5°	7233.4	7195.8	7233.4	7355.8	7465.7	7632.0	7836.0	8040.0	8222.0	8234.5	8322.4
7.5°	6630.9	6662.3	6721.9	6847.5	7054.6	7308.8	7603.7	7967.8	8313.0	8344.4	8517.0
10°	6019.0	6088.0	6185.3	6376.7	6665.4	6994.9	7396.6	7917.6	8457.3	8501.3	8799.4
12.5°	5454.1	5485.5	5604.7	5862.1	6219.8	6684.3	7239.7	7889.3	8617.4	8670.7	9100.6
15°	5021.0	5061.8	5165.4	5397.6	5796.2	6392.4	7111.1	7879.9	8774.3	8849.6	9401.9
17.5°	4939.5	4964.6	5008.5	5165.4	5513.7	6160.2	6994.9	7876.8	8924.9	9015.9	9681.2
20°	5275.2	5253.3	5209.3	5193.6	5385.1	5981.3	6910.2	7901.9	9069.3	9172.8	9976.2
22.5°	6116.3	6144.5	5887.2	5582.8	5520.0	5953.1	6897.7	8021.1	9298.4	9420.7	10305.7
25°	7901.9	7685.3	7283.7	6555.6	6006.4	6125.7	7038.9	8303.6	9565.1	9700.0	10603.8
27.5°	9875.8	9809.9	9185.4	7986.6	6963.6	6489.7	7289.9	8520.1	9653.0	9791.0	10773.3
30°	11815.2	11893.6	11178.1	9853.8	8353.8	7164.4	7525.3	8601.7	9731.4	9875.8	10989.8
32.5°	13613.3	13707.5	13079.8	11768.1	9991.9	8331.8	7930.1	8918.6	10060.9	10208.4	11350.7
35°	15028.6	15041.2	14567.3	13522.3	11780.6	9750.2	8805.7	9474.1	10506.5	10679.1	11733.6
37.5°	16327.8	16309.0	15753.5	14852.9	13271.3	11159.3	9907.2	10114.3	11014.9	11193.8	12285.9
40°	17291.2	17303.8	17124.9	16277.6	14661.5	12461.6	10779.6	10713.7	11868.5	12147.8	13089.2
42.5°	17934.6	18050.7	18138.5	17708.6	16409.4	14065.2	12119.6	11997.2	13349.7	13581.9	14225.3
45°	18455.5	18662.6	19101.9	19080.0	18088.3	16032.8	13958.5	13707.5	15449.1	15697.0	15671.9
47.5°	18835.2	19045.5	19773.5	20212.9	19666.8	17940.8	16271.3	16054.8	17956.5	18226.4	17269.3
50°	19029.8	19280.8	20209.7	21060.2	20900.1	19779.8	18907.4	18919.9	20984.8	21245.3	19120.8
52.5°	18574.7	18901.1	20441.9	21973.4	22284.0	21540.3	21377.1	21791.3	23680.5	23903.3	20793.4
55°	17121.8	17532.9	20125.0	22751.6	23887.6	23617.7	24182.6	24813.4	26627.2	26771.6	22510.0
57.5°	16202.3	16638.5	19189.8	23413.8	25814.5	26228.7	27123.1	27584.4	29668.1	30035.3	24480.7
60°	15427.2	15769.2	18421.0	23555.0	27772.7	29423.3	30292.6	30769.6	33421.3	33659.8	26649.2
62.5°	14137.4	14529.7	17121.8	22569.6	28758.0	31980.9	33782.2	33568.8	36324.1	36490.5	27979.8
65°	12063.1	12097.6	14485.7	20093.6	27741.3	33641.0	36233.1	35338.8	37711.2	37824.2	27876.2
67.5°	9003.4	9336.0	11143.6	15794.3	23432.6	32222.6	37027.1	35385.8	36835.7	36521.8	25663.8
70°	5799.3	6053.5	7553.5	10952.2	16895.8	26890.8	34394.2	32960.0	32329.3	31632.6	21006.8
72.5°	2676.8	3003.2	4487.6	6257.5	10020.1	19155.3	27920.2	26777.9	23269.4	21549.7	13352.8
75°	1167.4	1249.0	2215.5	3301.3	4697.8	10130.0	18408.4	16622.8	10509.7	9599.6	5344.3
77.5°	712.4	765.7	1161.1	1769.9	1845.2	3859.9	9916.6	7252.3	3248.0	2865.1	1449.8
80°	483.3	542.9	844.2	925.8	630.8	1076.4	3721.9	1936.2	655.9	627.6	310.7
82.5°	235.4	298.1	624.5	517.8	273.0	345.2	1082.7	414.2	191.4	178.9	109.8
85°	34.5	59.6	351.5	338.9	122.4	81.6	191.4	103.6	65.9	62.8	50.2
87.5°	0.0	0.0	119.2	53.3	12.6	12.6	22.0	22.0	25.1	22.0	25.1
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°	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0	8131.0
2.5°	8193.7	8209.4	8149.8	8065.1	7974.1	7883.0	7754.4	7638.3	7569.2	7610.0	7509.6
5°	8341.2	8328.7	8171.8	7914.4	7572.4	7161.3	6753.3	6405.0	6292.0	6122.5	6103.7
7.5°	8545.2	8510.7	8178.0	7588.1	6816.1	6044.1	5290.9	4792.0	4506.4	4264.8	4271.0
10°	8830.8	8730.3	8105.9	7013.8	5742.8	4578.6	3618.3	2959.3	2673.7	2582.7	2510.5
12.5°	9125.8	8931.2	7905.0	6238.7	4471.9	3128.7	2199.8	1798.2	1622.4	1565.9	1559.7
15°	9389.4	9081.8	7553.5	5306.6	3251.1	1999.0	1500.0	1368.2	1346.3	1349.4	1346.3
17.5°	9649.8	9201.1	7067.1	4318.1	2209.3	1434.1	1289.8	1258.4	1267.8	1280.4	1277.2
20°	9866.4	9226.2	6445.8	3295.1	1562.8	1258.4	1211.3	1205.1	1214.5	1223.9	1223.9
22.5°	10101.7	9245.0	5708.3	2281.4	1277.2	1170.5	1145.4	1145.4	1158.0	1170.5	1173.7
25°	10277.5	9141.4	4826.5	1638.1	1126.6	1085.8	1073.2	1076.4	1088.9	1095.2	1092.1
27.5°	10305.7	8849.6	3891.3	1255.3	1023.0	982.2	969.7	982.2	966.6	976.0	969.7
30°	10330.8	8479.3	2943.6	1057.6	928.9	866.1	847.3	828.5	815.9	800.2	797.1
32.5°	10409.3	8043.1	2149.6	950.9	841.0	772.0	728.1	674.7	633.9	621.4	618.2
35°	10443.8	7519.0	1578.5	866.1	762.6	687.3	608.8	533.5	473.9	451.9	467.6
37.5°	10575.6	7010.6	1223.9	803.4	693.5	599.4	499.0	404.8	348.3	335.8	342.1
40°	10845.5	6458.3	1026.2	750.0	633.9	517.8	395.4	304.4	266.7	254.2	251.1
42.5°	11278.5	5909.1	913.2	699.8	574.3	436.2	310.7	238.5	207.1	197.7	197.7
45°	11805.7	5381.9	834.7	646.5	511.5	351.5	244.8	191.4	172.6	166.3	166.3
47.5°	12499.3	4920.6	768.8	593.1	442.5	279.3	197.7	166.3	153.8	156.9	160.0
50°	13202.2	4578.6	696.7	533.5	364.0	229.1	169.5	147.5	144.4	147.5	147.5
52.5°	13732.6	4377.7	599.4	451.9	285.6	191.4	150.6	138.1	134.9	128.7	128.7
55°	14448.1	4333.8	477.0	367.2	225.9	160.0	134.9	125.5	116.1	109.8	106.7
57.5°	15367.5	4384.0	367.2	285.6	175.7	131.8	119.2	103.6	91.0	78.5	78.5
60°	15938.7	4271.0	285.6	219.7	128.7	106.7	91.0	75.3	59.6	50.2	47.1
62.5°	15756.7	3794.0	225.9	163.2	91.0	78.5	59.6	50.2	34.5	25.1	22.0
65°	14818.4	3062.8	182.0	113.0	65.9	47.1	31.4	31.4	15.7	3.1	0.0
67.5°	12970.0	2268.9	144.4	75.3	37.7	22.0	15.7	9.4	0.0	0.0	0.0
70°	10556.8	1638.1	113.0	47.1	22.0	15.7	6.3	3.1	0.0	0.0	0.0
72.5°	6703.1	938.3	87.9	28.2	15.7	6.3	0.0	0.0	0.0	0.0	0.0
75°	2592.1	367.2	59.6	18.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	734.3	172.6	34.5	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	191.4	75.3	18.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.0	31.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.3	12.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)