

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: P455592

Luminaire Tested: **GALN-SA6D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37947 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

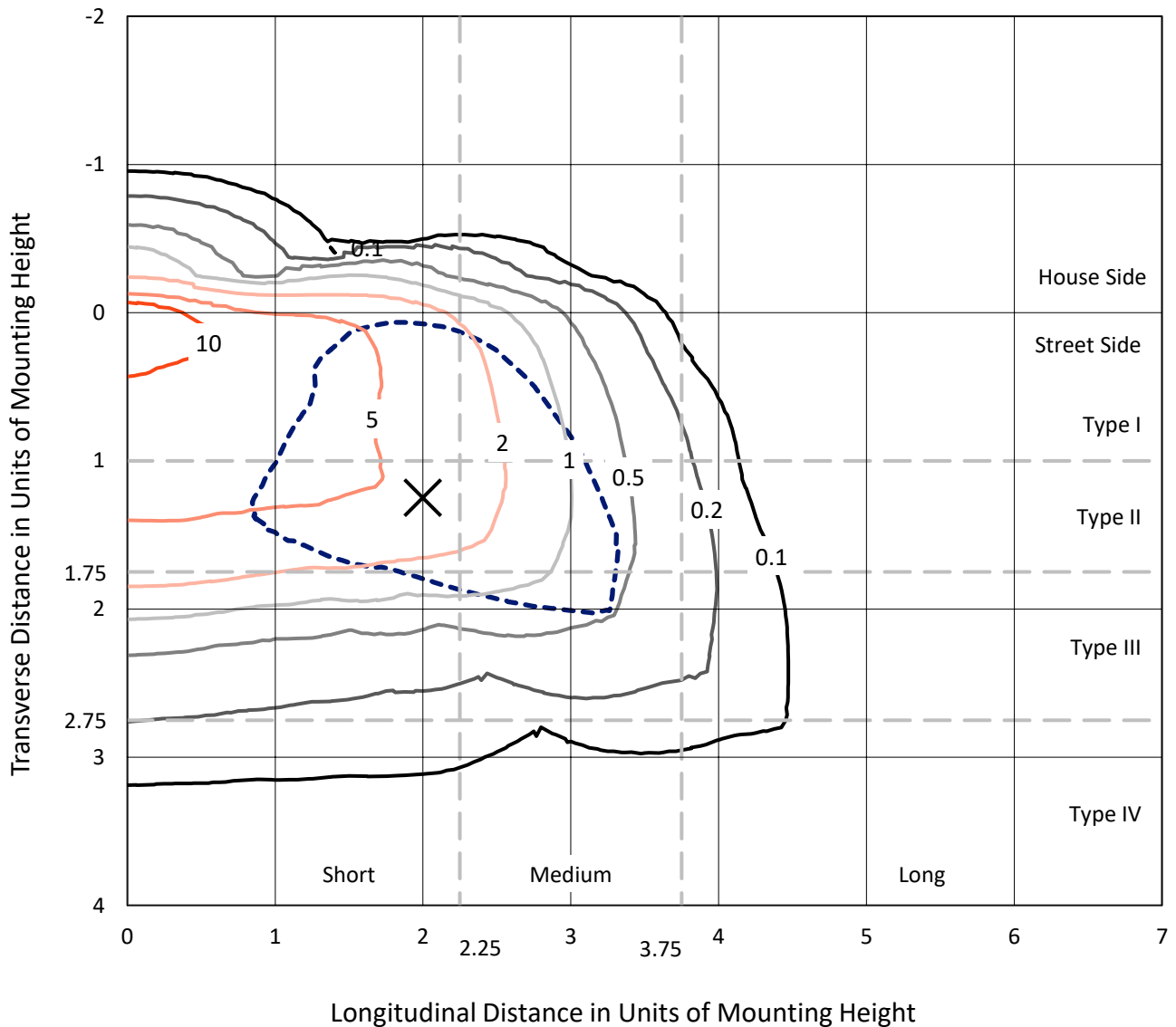
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

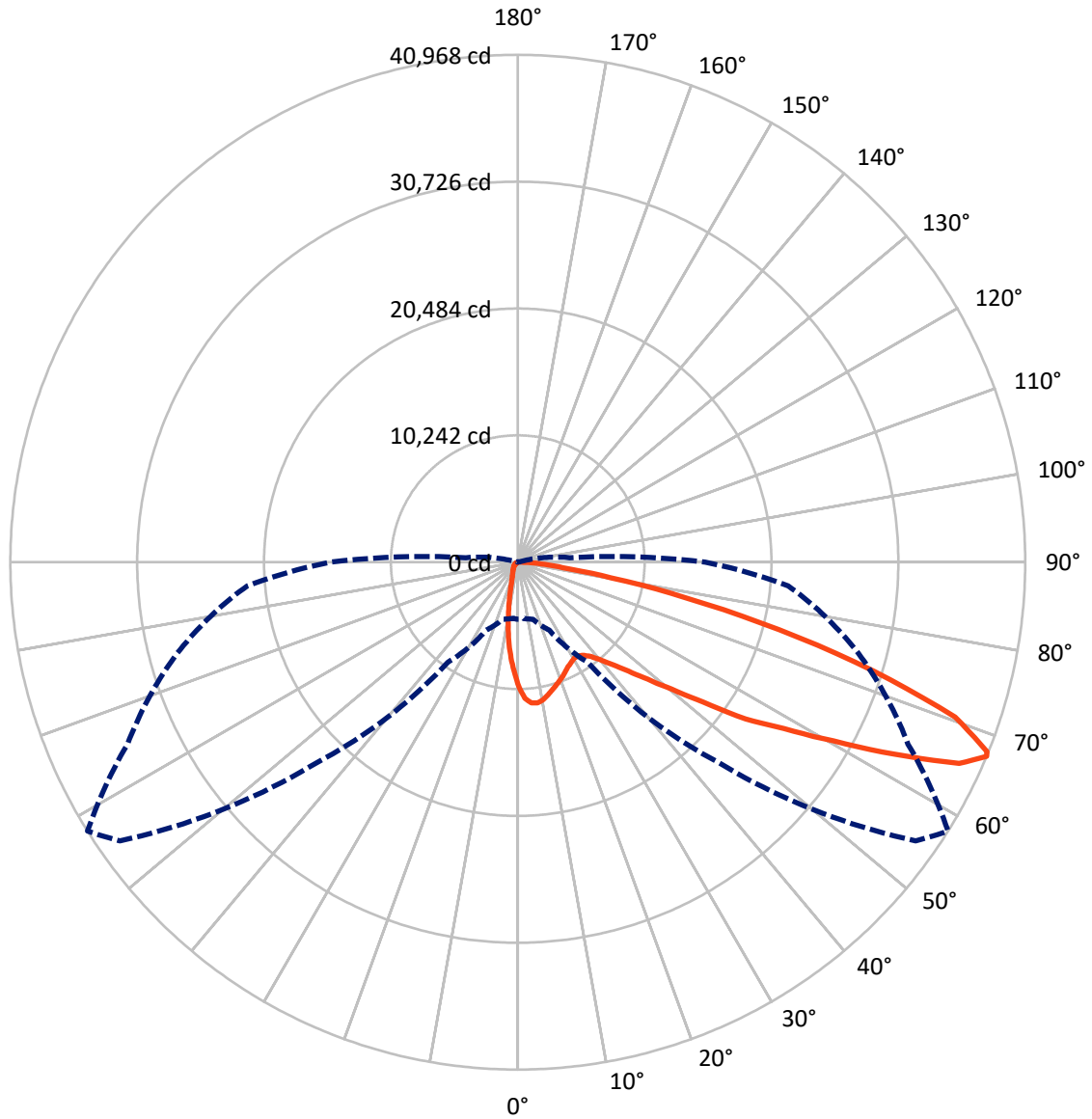
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2738.5	0.0	2738.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	35208.5	0.0	35208.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	37947.0	0.0	37947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.3	2.2
10°-20°	1763.0	4.6
20°-30°	2389.0	6.3
30°-40°	3313.4	8.7
40°-50°	5284.5	13.9
50°-60°	9134.7	24.1
60°-70°	10434.6	27.5
70°-80°	4350.3	11.5
80°-90°	461.3	1.2
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°	37947.0	100.0
0°-180°	37947.0	100.0

Coefficient of Utilization



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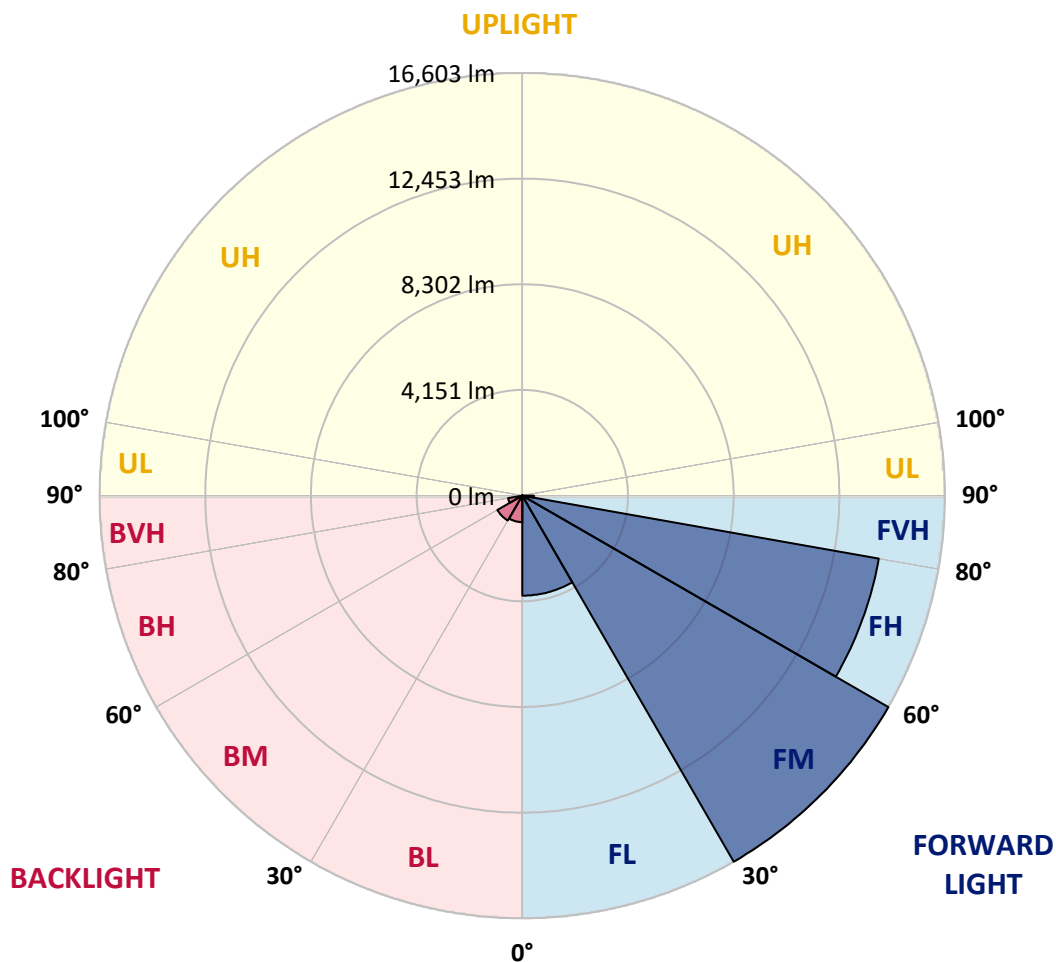
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3928.4	10.4			
FM	(30°-60°)	16603.4	43.8			
FH	(60°-80°)	14218.8	37.5			G5
FVH	(80°-90°)	457.9	1.2			G3/500
BL	(0°-30°)	1039.9	2.7	B3/2500		
BM	(30°-60°)	1129.1	3.0	B2/2500		
BH	(60°-80°)	566.1	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.3	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°	58°	65°	75°	85°
0°	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4
2.5°	11674.7	11692.4	11626.5	11573.3	11436.3	11289.2	11094.0	10990.0	10812.5	10505.7	10165.9
5°	11948.6	11971.4	11961.2	11948.6	11895.3	11753.3	11504.8	11413.5	11152.3	10652.8	10039.1
7.5°	11340.0	11423.6	11433.8	11532.7	11626.5	11639.2	11545.4	11476.9	11236.0	10650.2	9813.4
10°	10533.6	10589.4	10670.5	10784.6	11010.3	11198.0	11289.2	11279.1	11139.6	10571.6	9549.7
12.5°	9719.6	9750.0	9874.3	10069.5	10345.9	10665.5	10908.9	10957.1	10959.6	10477.8	9329.1
15°	9019.7	9007.1	9103.4	9329.1	9717.1	10117.7	10553.9	10629.9	10751.7	10386.5	9123.7
17.5°	8421.3	8487.2	8502.4	8750.9	9108.5	9628.3	10183.7	10318.0	10561.5	10307.9	8953.8
20°	8051.1	8086.6	8119.5	8259.0	8581.0	9128.8	9836.3	10021.4	10384.0	10236.9	8763.6
22.5°	7942.0	7964.9	7937.0	7980.1	8208.3	8695.2	9458.4	9704.4	10214.1	10171.0	8608.9
25°	8025.7	8048.5	7982.6	7931.9	8010.5	8342.7	9093.3	9392.5	10077.2	10158.3	8492.3
27.5°	8228.6	8271.7	8180.4	8089.1	8043.5	8152.5	8806.7	9154.1	9983.3	10219.2	8439.0
30°	8545.5	8570.9	8502.4	8390.9	8286.9	8177.9	8657.1	8989.3	9958.0	10361.2	8434.0
32.5°	8890.4	8943.7	8905.6	8832.1	8697.7	8439.0	8700.2	8994.4	10018.8	10566.6	8497.4
35°	9316.4	9377.3	9412.8	9397.6	9225.1	8903.1	8974.1	9222.6	10181.1	10944.4	8669.8
37.5°	9734.8	9788.1	9988.4	10056.9	9904.7	9600.4	9506.6	9671.4	10538.7	11438.9	8981.7
40°	10214.1	10285.1	10566.6	10827.7	10754.2	10434.7	10262.3	10399.2	11086.4	12184.4	9572.5
42.5°	10673.1	10799.8	11228.4	11689.9	11758.4	11400.8	11286.7	11332.4	11897.8	13257.0	10396.7
45°	11324.8	11443.9	11996.7	12623.1	12945.1	12666.2	12549.5	12541.9	13011.0	14765.8	11733.0
47.5°	12265.5	12372.0	13023.7	13642.4	14215.5	14253.6	14033.0	14109.0	14410.8	16530.7	13371.1
50°	13419.3	13670.3	14098.9	14743.0	15508.8	16127.5	16196.0	16094.5	16353.2	18574.5	15338.9
52.5°	15095.4	15191.8	15584.8	16114.8	17012.5	18062.3	18876.3	18736.8	18655.7	20522.0	17326.9
55°	16345.6	16474.9	17086.0	17813.8	19129.9	20514.4	22279.3	22327.5	21303.0	22393.4	19271.9
57.5°	15967.7	16165.5	17091.1	18554.2	21447.5	23978.2	25291.8	25324.7	23752.6	24211.5	21467.8
60°	14027.9	14121.7	15447.9	17400.5	21645.3	27731.2	29564.5	29298.3	26245.2	26245.2	23407.7
62.5°	9947.8	10094.9	11170.1	14043.1	19548.3	29034.6	34681.7	34131.5	29678.7	28190.2	24564.0
65°	6357.2	6215.2	6927.7	8865.1	14562.9	27109.9	39137.1	39170.0	32909.2	28968.6	23932.6
67°	4605.0	4549.2	4754.6	6060.5	9874.3	22789.0	39230.9	40967.9	34765.4	28476.7	21914.1
67.5°	4211.9	4255.0	4404.6	5467.1	8971.6	20737.5	38804.9	40861.4	35183.8	28180.0	21183.8
70°	3192.5	3119.0	3281.3	3867.0	5378.4	13082.0	33380.9	37476.2	34664.0	25236.0	16926.3
72.5°	2348.1	2340.5	2566.2	3162.1	4140.9	6968.3	25058.5	30048.9	28319.5	19216.1	10657.8
75°	1584.9	1655.9	2015.9	2642.3	3752.9	4518.7	17083.5	21800.0	19659.8	10911.4	4356.5
77.5°	902.7	907.8	1298.3	2122.4	3370.0	3636.3	10122.8	13888.4	10406.8	3628.7	1293.2
80°	390.5	428.5	644.1	1541.7	2794.4	3220.4	5804.4	7632.7	4209.4	768.3	418.4
82.5°	144.5	169.9	284.0	948.4	2038.8	2652.4	3507.0	3643.9	1427.6	271.3	261.2
85°	0.0	5.1	104.0	443.8	1062.5	1184.2	2343.1	2160.5	631.4	129.3	169.9
87.5°	0.0	0.0	0.0	45.6	139.5	441.2	727.8	811.4	152.1	45.6	40.6
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°	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4	10059.4
2.5°	9983.3	9818.5	9405.2	8991.8	8685.0	8428.9	8043.5	7833.0	7721.4	7556.6	7566.7
5°	9732.3	9397.6	8669.8	7916.7	7308.1	6714.7	6004.7	5718.2	5477.3	5340.3	5249.0
7.5°	9359.5	8865.1	7787.4	6783.2	5847.5	4810.4	4031.9	3512.0	3162.1	3032.8	2908.5
10°	8951.3	8294.5	6892.2	5500.1	4201.8	3131.7	2472.4	1995.7	1825.8	1668.5	1683.8
12.5°	8573.4	7774.7	6070.6	4341.2	2944.0	1990.6	1551.9	1356.6	1300.9	1283.1	1283.1
15°	8264.1	7277.7	5188.2	3263.5	2018.5	1430.2	1242.5	1189.3	1169.0	1163.9	1163.9
17.5°	7934.4	6806.0	4392.0	2411.5	1468.2	1196.9	1133.5	1098.0	1090.4	1085.3	1085.3
20°	7640.3	6331.8	3636.3	1795.3	1186.7	1077.7	1037.1	1014.3	1006.7	1001.6	1004.2
22.5°	7361.3	5910.9	2926.3	1356.6	1044.7	981.3	940.8	917.9	902.7	890.1	892.6
25°	7112.8	5505.2	2353.2	1110.7	940.8	885.0	844.4	811.4	778.5	763.3	760.7
27.5°	6937.9	5150.1	1833.4	950.9	846.9	786.1	735.4	694.8	651.7	628.9	623.8
30°	6793.3	4790.1	1450.5	839.3	753.1	694.8	631.4	573.1	527.4	504.6	494.5
32.5°	6699.5	4447.7	1143.6	748.1	674.5	603.5	532.5	474.2	423.5	400.7	395.6
35°	6684.3	4161.2	935.7	672.0	603.5	527.4	453.9	390.5	347.4	324.6	319.5
37.5°	6793.3	3940.6	783.6	611.1	545.2	461.5	380.4	322.0	284.0	266.3	263.7
40°	7084.9	3801.1	679.6	560.4	491.9	400.7	324.6	273.9	235.8	218.1	218.1
42.5°	7640.3	3806.2	611.1	512.2	438.7	342.3	276.4	228.2	195.3	180.0	175.0
45°	8507.5	3978.6	552.8	464.0	388.0	296.7	235.8	187.6	154.7	142.0	142.0
47.5°	9668.9	4321.0	502.1	415.9	342.3	253.6	200.3	152.1	124.3	111.6	111.6
50°	11187.8	4871.2	459.0	375.3	304.3	218.1	162.3	124.3	96.4	86.2	83.7
52.5°	12775.2	5550.8	408.3	339.8	261.2	185.1	131.9	96.4	73.5	65.9	63.4
55°	14527.4	6215.2	360.1	304.3	213.0	154.7	104.0	76.1	53.3	45.6	45.6
57.5°	16294.9	6866.9	301.8	253.6	167.4	114.1	81.1	55.8	35.5	27.9	27.9
60°	17791.0	7077.3	256.1	205.4	126.8	81.1	58.3	35.5	20.3	12.7	12.7
62.5°	17996.4	6367.3	215.5	157.2	91.3	55.8	30.4	20.3	7.6	5.1	5.1
65°	16880.6	5173.0	180.0	119.2	60.9	27.9	12.7	7.6	2.5	0.0	0.0
67°	15125.9	4194.2	147.1	88.8	43.1	17.8	7.6	2.5	0.0	0.0	0.0
67.5°	14677.0	3998.9	142.0	83.7	38.0	15.2	5.1	2.5	0.0	0.0	0.0
70°	11517.5	2994.7	101.4	50.7	22.8	10.1	0.0	0.0	0.0	0.0	0.0
72.5°	7158.5	1693.9	73.5	30.4	15.2	5.1	0.0	0.0	0.0	0.0	0.0
75°	2705.7	593.4	50.7	20.3	10.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	841.9	225.7	30.4	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	284.0	86.2	20.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	175.0	35.5	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	109.0	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	5.1	2.5	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)