

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: P457419

Luminaire Tested: **GALN-SA8D-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457419
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-SA8D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 47060 lumens
Efficiency: N/A
Efficacy: 95.5 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

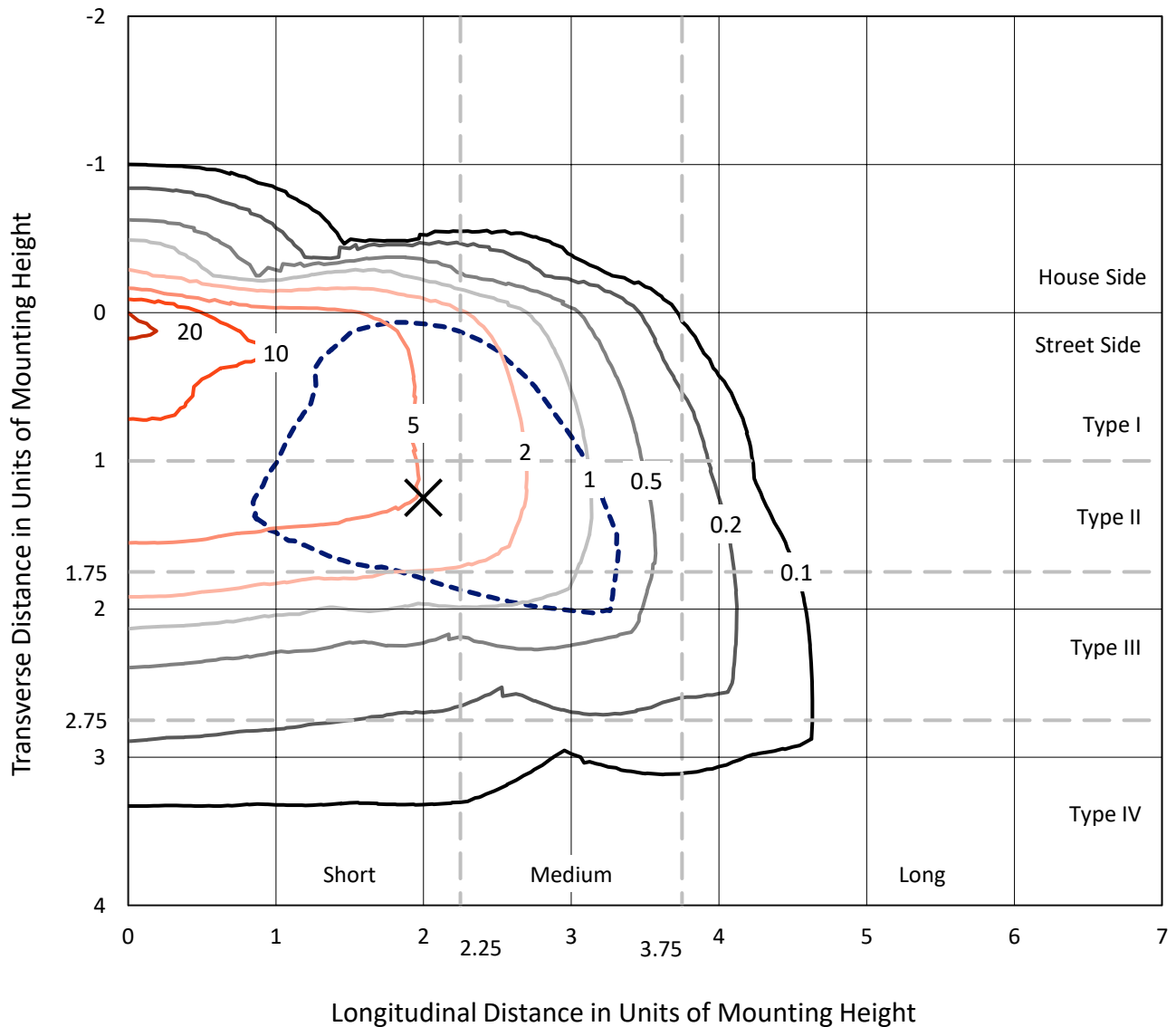
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

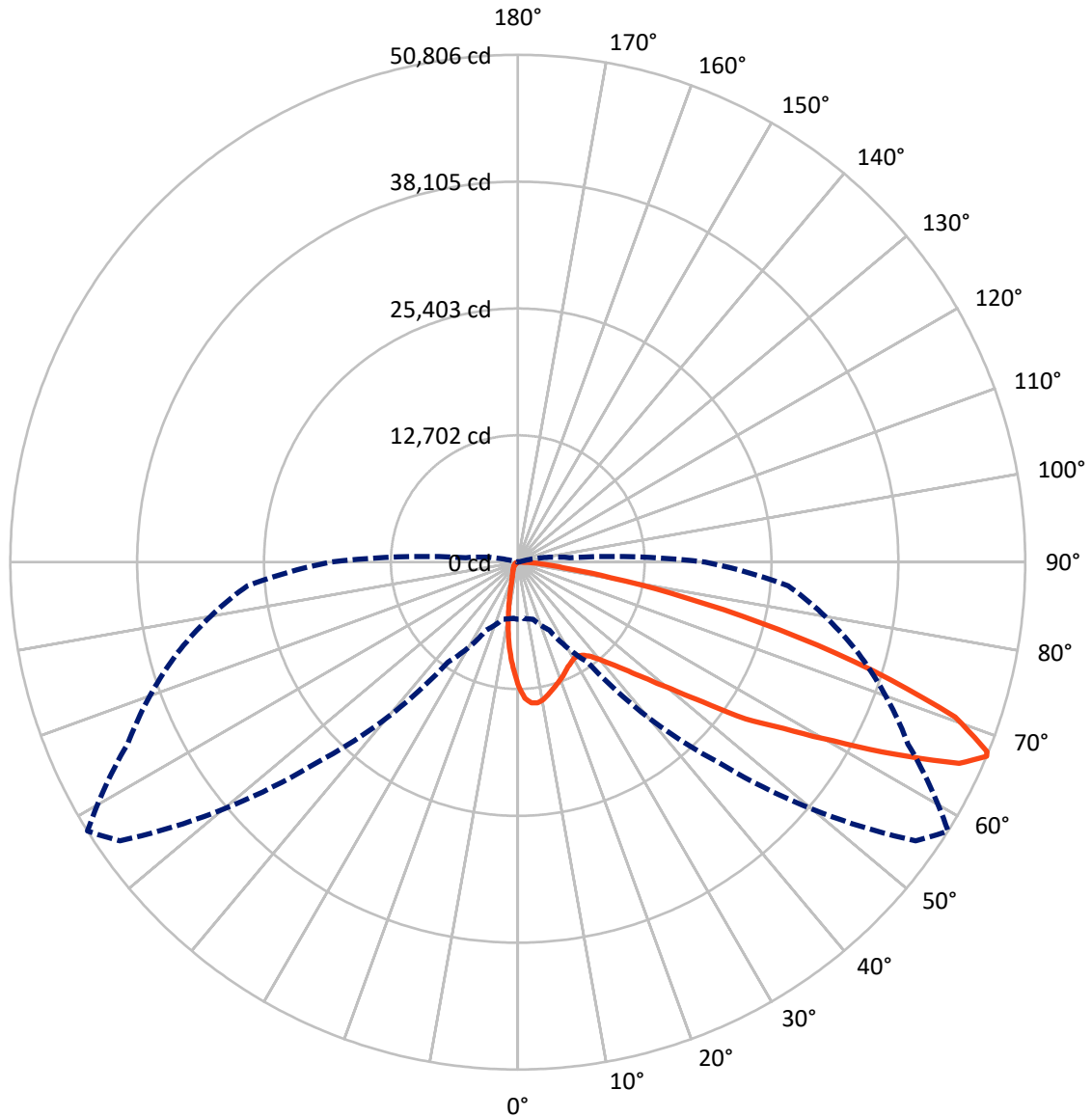
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 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	3396.1	0.0	3396.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	43663.9	0.0	43663.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	47060.0	0.0	47060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.3	2.2
10°-20°	2186.4	4.6
20°-30°	2962.7	6.3
30°-40°	4109.1	8.7
40°-50°	6553.5	13.9
50°-60°	11328.4	24.1
60°-70°	12940.5	27.5
70°-80°	5395.0	11.5
80°-90°	572.0	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°	47060.0	100.0
0°-180°	47060.0	100.0

Coefficient of Utilization



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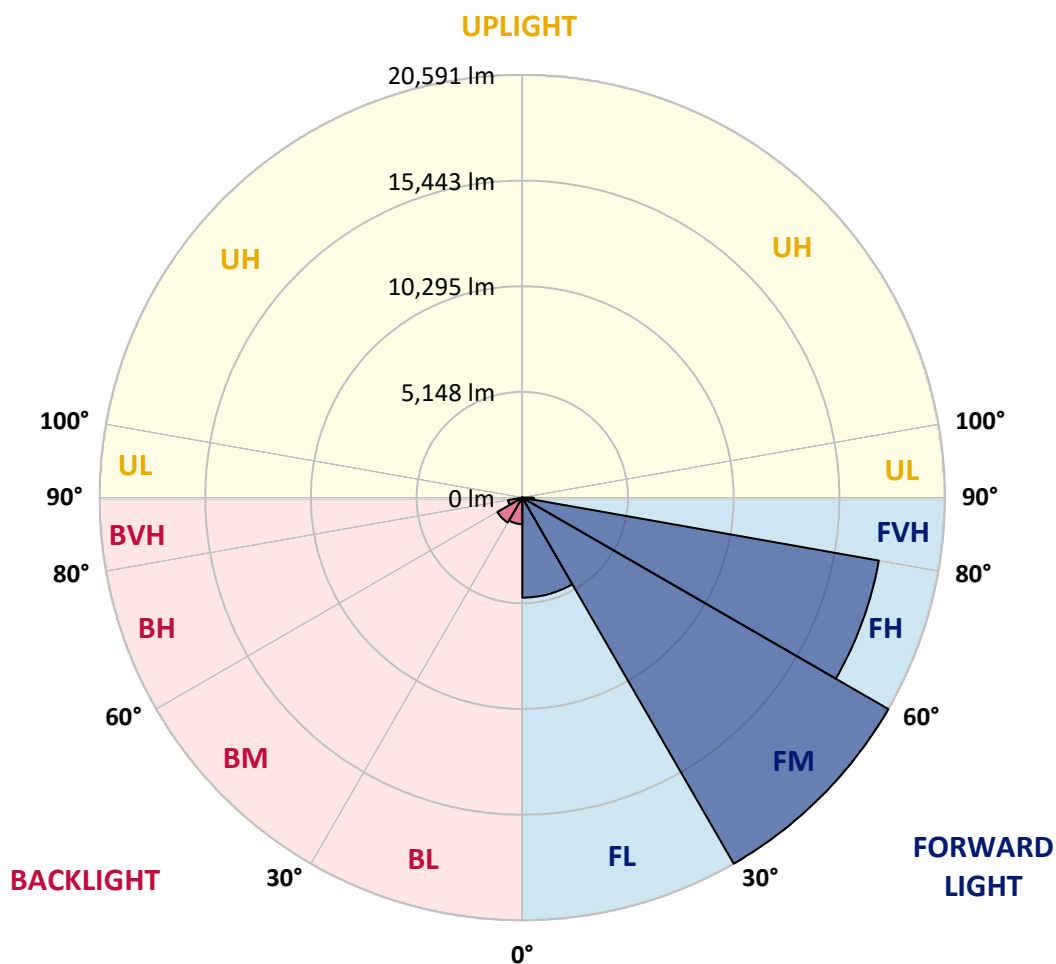
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4871.8	10.4			
FM	(30°-60°)	20590.7	43.8			
FH	(60°-80°)	17633.4	37.5			G5
FVH	(80°-90°)	567.9	1.2			G4/750
BL	(0°-30°)	1289.6	2.7	B3/2500		
BM	(30°-60°)	1400.3	3.0	B2/2500		
BH	(60°-80°)	702.1	1.5	B2/1000		G2/1000
BVH	(80°-90°)	4.1	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°	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2
2.5°	14478.4	14500.4	14418.6	14352.6	14182.8	14000.4	13758.2	13629.3	13409.2	13028.6	12607.3
5°	14818.0	14846.3	14833.7	14818.0	14752.0	14575.9	14267.7	14154.5	13830.6	13211.0	12450.0
7.5°	14063.3	14167.0	14179.6	14302.3	14418.6	14434.3	14318.0	14233.1	13934.3	13207.9	12170.1
10°	13063.2	13132.4	13233.1	13374.6	13654.5	13887.2	14000.4	13987.8	13814.8	13110.4	11843.1
12.5°	12053.8	12091.5	12245.6	12487.8	12830.5	13226.8	13528.7	13588.4	13591.6	12994.1	11569.5
15°	11185.8	11170.1	11289.6	11569.5	12050.6	12547.5	13088.4	13182.7	13333.7	12880.8	11314.8
17.5°	10443.7	10525.4	10544.3	10852.5	11295.9	11940.6	12629.3	12795.9	13097.8	12783.4	11104.1
20°	9984.5	10028.6	10069.4	10242.4	10641.8	11321.1	12198.4	12428.0	12877.7	12695.3	10868.2
22.5°	9849.3	9877.6	9843.0	9896.5	10179.5	10783.3	11729.9	12034.9	12667.0	12613.5	10676.4
25°	9953.1	9981.4	9899.6	9836.7	9934.2	10346.2	11277.0	11648.1	12497.2	12597.8	10531.7
27.5°	10204.7	10258.1	10144.9	10031.7	9975.1	10110.3	10921.7	11352.5	12380.8	12673.3	10465.7
30°	10597.8	10629.2	10544.3	10405.9	10277.0	10141.8	10736.1	11148.1	12349.4	12849.4	10459.4
32.5°	11025.4	11091.5	11044.3	10953.1	10786.4	10465.7	10789.6	11154.4	12424.9	13104.1	10538.0
35°	11553.8	11629.2	11673.3	11654.4	11440.6	11041.2	11129.2	11437.4	12626.1	13572.7	10751.9
37.5°	12072.6	12138.7	12387.1	12472.0	12283.3	11906.0	11789.6	11994.0	13069.5	14185.9	11138.7
40°	12667.0	12755.1	13104.1	13428.0	13336.8	12940.6	12726.8	12896.6	13748.8	15110.5	11871.4
42.5°	13236.2	13393.4	13924.9	14497.2	14582.1	14138.7	13997.2	14053.8	14755.1	16440.7	12893.4
45°	14044.4	14192.2	14877.8	15654.5	16053.9	15708.0	15563.3	15553.9	16135.6	18311.8	14550.7
47.5°	15211.1	15343.2	16151.4	16918.7	17629.4	17676.6	17403.0	17497.3	17871.5	20500.5	16582.2
50°	16642.0	16953.3	17484.7	18283.5	19233.2	20000.5	20085.4	19959.6	20280.4	23035.2	19022.5
52.5°	18720.6	18840.1	19327.6	19984.8	21098.0	22400.0	23409.4	23236.5	23135.8	25450.4	21488.0
55°	20271.0	20431.4	21189.2	22091.8	23723.9	25440.9	27629.7	27689.4	26418.9	27771.2	23900.0
57.5°	19802.4	20047.7	21195.5	23010.0	26598.2	29736.6	31365.6	31406.5	29456.8	30026.0	26623.3
60°	17396.7	17513.0	19157.7	21579.2	26843.5	34390.8	36664.5	36334.3	32548.0	32548.0	29029.1
62.5°	12336.8	12519.2	13852.6	17415.6	24242.8	36007.2	43010.6	42328.2	36806.0	34960.0	30463.1
65°	7883.9	7707.8	8591.4	10994.0	18060.2	33620.4	48535.9	48576.8	40812.4	35925.5	29680.0
67°	5710.8	5641.7	5896.4	7515.9	12245.6	28261.8	48652.2	50806.4	43114.4	35315.4	27176.8
67.5°	5223.4	5276.9	5462.4	6780.1	11126.1	25717.7	48123.9	50674.3	43633.2	34947.5	26271.1
70°	3959.2	3868.0	4069.3	4795.7	6670.0	16223.7	41397.3	46476.1	42988.6	31296.4	20991.1
72.5°	2912.0	2902.6	3182.5	3921.5	5135.4	8641.7	31076.3	37265.1	35120.4	23830.8	13217.3
75°	1965.5	2053.5	2500.1	3276.8	4654.2	5603.9	21186.1	27035.3	24381.2	13531.8	5402.7
77.5°	1119.5	1125.8	1610.1	2632.1	4179.4	4509.6	12553.8	17223.7	12906.0	4500.1	1603.8
80°	484.3	531.5	798.8	1912.0	3465.5	3993.8	7198.3	9465.7	5220.3	952.9	518.9
82.5°	179.3	210.7	352.2	1176.1	2528.4	3289.4	4349.2	4519.0	1770.5	336.5	323.9
85°	0.0	6.3	128.9	550.3	1317.6	1468.6	2905.7	2679.3	783.0	160.4	210.7
87.5°	0.0	0.0	0.0	56.6	173.0	547.2	902.5	1006.3	188.7	56.6	50.3
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°	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2	12475.2
2.5°	12380.8	12176.4	11663.8	11151.2	10770.7	10453.1	9975.1	9714.1	9575.7	9371.3	9383.9
5°	12069.5	11654.4	10751.9	9817.9	9063.1	8327.3	7446.7	7091.4	6792.6	6622.8	6509.6
7.5°	11607.2	10994.0	9657.5	8412.2	7251.8	5965.6	5000.1	4355.5	3921.5	3761.1	3607.0
10°	11100.9	10286.4	8547.4	6820.9	5210.8	3883.8	3066.1	2474.9	2264.2	2069.2	2088.1
12.5°	10632.4	9641.8	7528.5	5383.8	3651.0	2468.6	1924.6	1682.4	1613.3	1591.2	1591.2
15°	10248.7	9025.4	6434.1	4047.3	2503.2	1773.6	1540.9	1474.9	1449.7	1443.4	1443.4
17.5°	9839.9	8440.5	5446.7	2990.6	1820.8	1484.3	1405.7	1361.7	1352.2	1345.9	1345.9
20°	9475.1	7852.4	4509.6	2226.5	1471.7	1336.5	1286.2	1257.9	1248.5	1242.2	1245.3
22.5°	9129.2	7330.4	3629.0	1682.4	1295.6	1217.0	1166.7	1138.4	1119.5	1103.8	1106.9
25°	8821.0	6827.2	2918.3	1377.4	1166.7	1097.5	1047.2	1006.3	965.4	946.6	943.4
27.5°	8604.0	6387.0	2273.6	1179.3	1050.3	974.9	912.0	861.7	808.2	779.9	773.6
30°	8424.8	5940.4	1798.8	1040.9	934.0	861.7	783.0	710.7	654.1	625.8	613.2
32.5°	8308.4	5515.9	1418.3	927.7	836.5	748.4	660.4	588.1	525.2	496.9	490.6
35°	8289.5	5160.5	1160.4	833.4	748.4	654.1	562.9	484.3	430.8	402.5	396.2
37.5°	8424.8	4886.9	971.7	757.9	676.1	572.3	471.7	399.4	352.2	330.2	327.1
40°	8786.4	4714.0	842.8	695.0	610.1	496.9	402.5	339.6	292.5	270.4	270.4
42.5°	9475.1	4720.3	757.9	635.2	544.0	424.5	342.8	283.0	242.1	223.3	217.0
45°	10550.6	4934.1	685.6	575.5	481.1	367.9	292.5	232.7	191.8	176.1	176.1
47.5°	11990.9	5358.6	622.7	515.7	424.5	314.5	248.4	188.7	154.1	138.4	138.4
50°	13874.6	6041.0	569.2	465.4	377.4	270.4	201.3	154.1	119.5	106.9	103.8
52.5°	15843.2	6883.8	506.3	421.4	323.9	229.6	163.5	119.5	91.2	81.8	78.6
55°	18016.2	7707.8	446.6	377.4	264.2	191.8	128.9	94.3	66.0	56.6	56.6
57.5°	20208.1	8515.9	374.2	314.5	207.6	141.5	100.6	69.2	44.0	34.6	34.6
60°	22063.5	8777.0	317.6	254.7	157.2	100.6	72.3	44.0	25.2	15.7	15.7
62.5°	22318.2	7896.4	267.3	195.0	113.2	69.2	37.7	25.2	9.4	6.3	6.3
65°	20934.5	6415.3	223.3	147.8	75.5	34.6	15.7	9.4	3.1	0.0	0.0
67°	18758.4	5201.4	182.4	110.1	53.5	22.0	9.4	3.1	0.0	0.0	0.0
67.5°	18201.7	4959.3	176.1	103.8	47.2	18.9	6.3	3.1	0.0	0.0	0.0
70°	14283.4	3713.9	125.8	62.9	28.3	12.6	0.0	0.0	0.0	0.0	0.0
72.5°	8877.6	2100.7	91.2	37.7	18.9	6.3	0.0	0.0	0.0	0.0	0.0
75°	3355.4	735.9	62.9	25.2	12.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1044.1	279.9	37.7	18.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	352.2	106.9	25.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	217.0	44.0	15.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	135.2	18.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.2	6.3	3.1	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)