

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: P459536

Luminaire Tested: **GALN-SA9D-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459536  
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-SA9D-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 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: 54042 lumens  
Efficiency: N/A  
Efficacy: 97.9 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

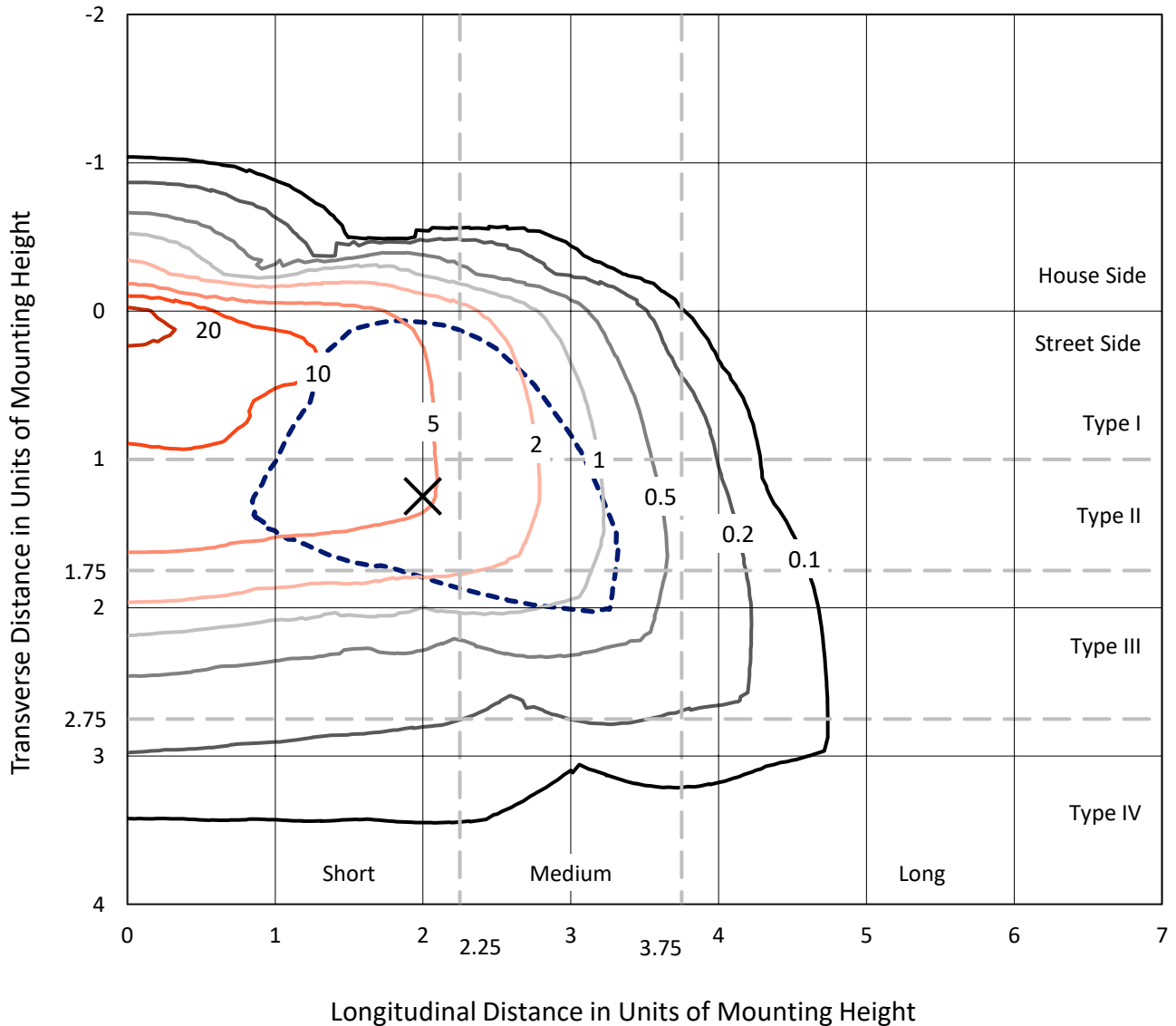
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

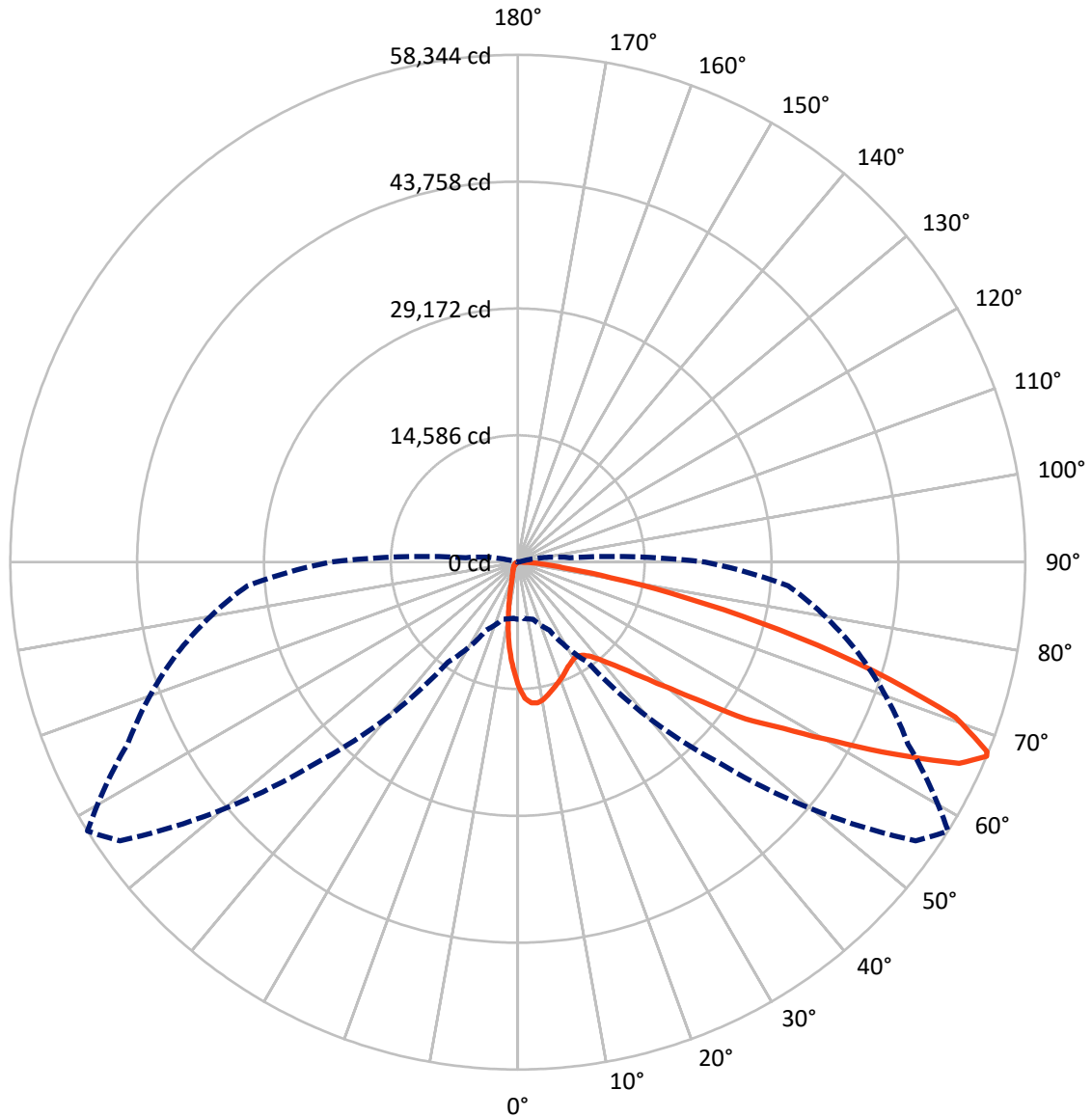
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.4 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
<b>House Side</b>	Lumens	3900.0	0.0	3900.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	50142.0	0.0	50142.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	54042.0	0.0	54042.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1162.5	2.2
10°-20°	2510.8	4.6
20°-30°	3402.3	6.3
30°-40°	4718.8	8.7
40°-50°	7525.9	13.9
50°-60°	13009.1	24.1
60°-70°	14860.4	27.5
70°-80°	6195.4	11.5
80°-90°	656.9	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°	54042.0	100.0
0°-180°	54042.0	100.0

**Coefficient of Utilization**

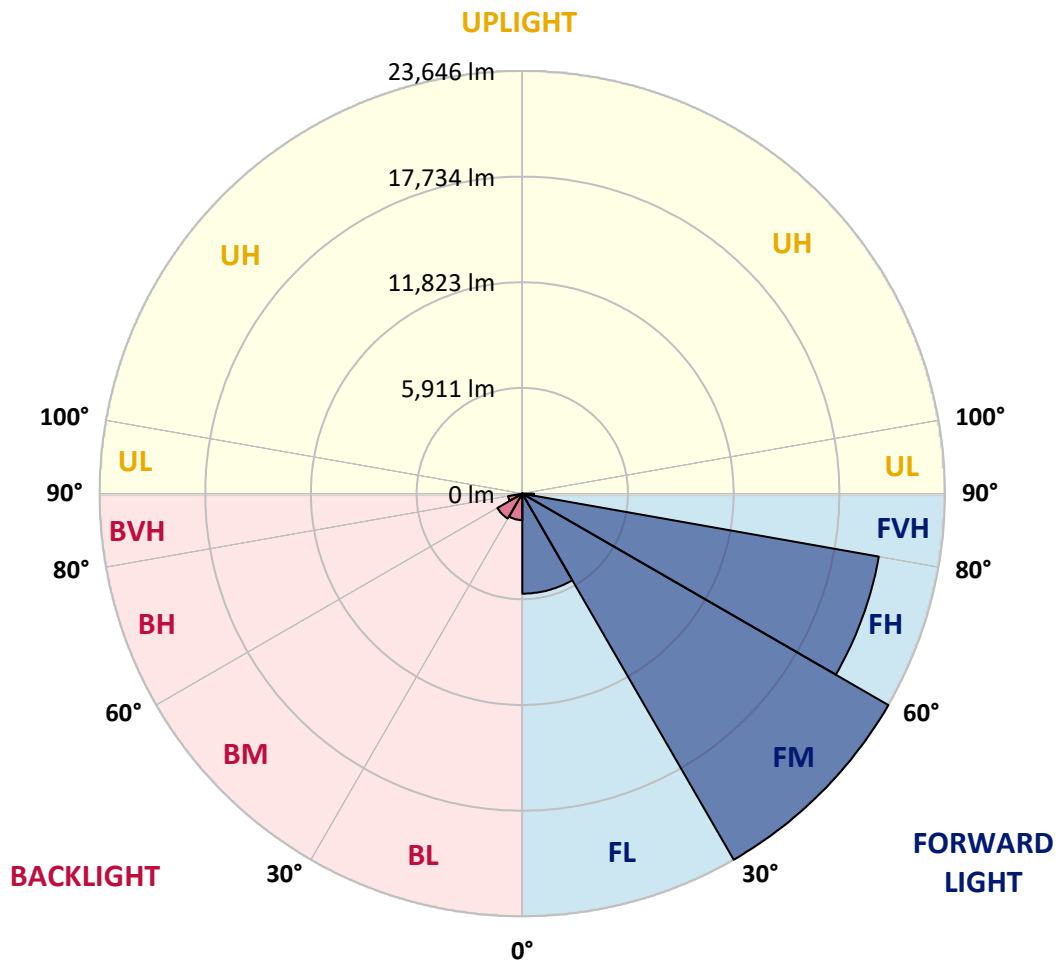


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5594.6	10.4			
FM	(30°-60°)	23645.6	43.8			
FH	(60°-80°)	20249.6	37.5			G5
FVH	(80°-90°)	652.1	1.2			G4/750
BL	(0°-30°)	1480.9	2.7	B3/2500		
BM	(30°-60°)	1608.1	3.0	B2/2500		
BH	(60°-80°)	806.2	1.5	B2/1000		G2/1000
BVH	(80°-90°)	4.8	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°	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0
2.5°	16626.4	16651.7	16557.8	16482.0	16287.0	16077.5	15799.4	15651.4	15398.6	14961.6	14477.7
5°	17016.5	17049.0	17034.5	17016.5	16940.6	16738.4	16384.5	16254.5	15882.5	15171.1	14297.1
7.5°	16149.7	16268.9	16283.4	16424.2	16557.8	16575.9	16442.3	16344.8	16001.7	15167.5	13975.7
10°	15001.4	15080.8	15196.4	15358.9	15680.3	15947.5	16077.5	16063.1	15864.5	15055.5	13600.2
12.5°	13842.1	13885.5	14062.4	14340.5	14734.1	15189.1	15535.8	15604.4	15608.1	14921.9	13286.0
15°	12845.4	12827.3	12964.6	13286.0	13838.5	14409.1	15030.2	15138.6	15311.9	14791.9	12993.5
17.5°	11993.1	12087.0	12108.7	12462.6	12971.8	13712.1	14503.0	14694.4	15041.1	14679.9	12751.5
20°	11465.9	11516.4	11563.4	11762.0	12220.6	13000.7	14008.2	14271.9	14788.3	14578.8	12480.7
22.5°	11310.6	11343.1	11303.4	11364.8	11689.8	12383.2	13470.2	13820.5	14546.3	14484.9	12260.4
25°	11429.8	11462.3	11368.4	11296.2	11408.1	11881.2	12950.1	13376.3	14351.3	14466.9	12094.3
27.5°	11718.7	11780.1	11650.1	11520.1	11455.1	11610.3	12542.1	13036.8	14217.7	14553.6	12018.4
30°	12170.1	12206.2	12108.7	11949.8	11801.7	11646.5	12329.0	12802.1	14181.6	14755.8	12011.2
32.5°	12661.2	12737.1	12682.9	12578.2	12386.8	12018.4	12390.4	12809.3	14268.3	15048.3	12101.5
35°	13267.9	13354.6	13405.2	13383.5	13137.9	12679.3	12780.4	13134.3	14499.4	15586.4	12347.0
37.5°	13863.8	13939.6	14224.9	14322.4	14105.7	13672.4	13538.8	13773.5	15008.6	16290.6	12791.2
40°	14546.3	14647.4	15048.3	15420.3	15315.5	14860.5	14614.9	14810.0	15788.6	17352.3	13632.7
42.5°	15200.0	15380.5	15990.8	16648.1	16745.6	16236.4	16073.9	16138.9	16944.2	18879.9	14806.3
45°	16128.1	16297.8	17085.1	17977.1	18435.7	18038.5	17872.3	17861.5	18529.6	21028.6	16709.5
47.5°	17467.9	17619.5	18547.7	19428.8	20245.0	20299.1	19984.9	20093.3	20523.0	23542.1	19042.4
50°	19111.0	19468.5	20078.8	20996.1	22086.7	22967.9	23065.4	22920.9	23289.3	26452.8	21844.8
52.5°	21498.1	21635.3	22195.1	22949.8	24228.2	25723.3	26882.5	26683.9	26568.4	29226.3	24676.0
55°	23278.5	23462.6	24333.0	25369.4	27243.7	29215.4	31728.9	31797.5	30338.6	31891.4	27445.9
57.5°	22740.4	23022.1	24340.2	26423.9	30544.4	34148.5	36019.1	36066.1	33827.1	34480.7	30573.3
60°	19977.7	20111.3	22000.1	24780.8	30826.1	39493.2	42104.2	41725.0	37377.0	37377.0	33335.9
62.5°	14167.1	14376.6	15907.8	19999.4	27839.5	41349.4	49391.8	48608.1	42266.7	40146.9	34982.7
65°	9053.5	8851.3	9866.1	12625.1	20739.7	38608.4	55736.8	55783.8	46867.5	41255.5	34083.5
67°	6558.1	6478.7	6771.2	8631.0	14062.4	32454.8	55870.5	58344.2	49511.0	40554.9	31208.9
67.5°	5998.4	6059.8	6272.8	7786.0	12776.8	29533.2	55263.8	58192.5	50106.8	40132.4	30168.8
70°	4546.6	4441.9	4673.0	5507.2	7659.6	18630.7	47539.2	53371.4	49366.5	35939.7	24105.4
72.5°	3344.1	3333.2	3654.6	4503.3	5897.3	9923.9	35686.9	42793.9	40331.0	27366.5	15178.3
75°	2257.1	2358.2	2871.0	3763.0	5344.7	6435.3	24329.3	31046.4	27998.4	15539.4	6204.2
77.5°	1285.6	1292.8	1849.0	3022.7	4799.4	5178.6	14416.3	19779.1	14820.8	5167.8	1841.8
80°	556.1	610.3	917.3	2195.7	3979.7	4586.4	8266.3	10870.0	5994.8	1094.2	595.9
82.5°	205.8	242.0	404.5	1350.6	2903.5	3777.4	4994.4	5189.4	2033.2	386.4	372.0
85°	0.0	7.2	148.1	632.0	1513.1	1686.5	3336.8	3076.8	899.2	184.2	242.0
87.5°	0.0	0.0	0.0	65.0	198.6	628.4	1036.4	1155.6	216.7	65.0	57.8
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°	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0	14326.0
2.5°	14217.7	13983.0	13394.3	12805.7	12368.7	12004.0	11455.1	11155.3	10996.4	10761.7	10776.1
5°	13860.2	13383.5	12347.0	11274.5	10407.8	9562.7	8551.6	8143.5	7800.4	7605.4	7475.4
7.5°	13329.3	12625.1	11090.3	9660.2	8327.7	6850.6	5742.0	5001.7	4503.3	4319.1	4142.2
10°	12747.9	11812.6	9815.5	7832.9	5983.9	4460.0	3521.0	2842.1	2600.1	2376.2	2397.9
12.5°	12209.8	11072.3	8645.5	6182.6	4192.7	2834.9	2210.1	1932.0	1852.6	1827.3	1827.3
15°	11769.2	10364.4	7388.7	4647.7	2874.6	2036.8	1769.5	1693.7	1664.8	1657.6	1657.6
17.5°	11299.8	9692.7	6254.8	3434.3	2090.9	1704.5	1614.3	1563.7	1552.9	1545.6	1545.6
20°	10880.9	9017.4	5178.6	2556.8	1690.1	1534.8	1477.0	1444.5	1433.7	1426.5	1430.1
22.5°	10483.6	8417.9	4167.4	1932.0	1487.9	1397.6	1339.8	1307.3	1285.6	1267.6	1271.2
25°	10129.7	7840.1	3351.3	1581.8	1339.8	1260.3	1202.6	1155.6	1108.7	1087.0	1083.4
27.5°	9880.5	7334.6	2611.0	1354.2	1206.2	1119.5	1047.3	989.5	928.1	895.6	888.4
30°	9674.7	6821.8	2065.7	1195.3	1072.6	989.5	899.2	816.2	751.2	718.6	704.2
32.5°	9541.1	6334.2	1628.7	1065.3	960.6	859.5	758.4	675.3	603.1	570.6	563.4
35°	9519.4	5926.1	1332.6	957.0	859.5	751.2	646.4	556.1	494.7	462.2	455.0
37.5°	9674.7	5612.0	1115.9	870.3	776.4	657.3	541.7	458.6	404.5	379.2	375.6
40°	10090.0	5413.3	967.8	798.1	700.6	570.6	462.2	390.0	335.9	310.6	310.6
42.5°	10880.9	5420.6	870.3	729.5	624.8	487.5	393.6	325.0	278.1	256.4	249.2
45°	12115.9	5666.1	787.3	660.9	552.5	422.5	335.9	267.2	220.3	202.2	202.2
47.5°	13769.9	6153.7	715.0	592.3	487.5	361.1	285.3	216.7	177.0	158.9	158.9
50°	15933.1	6937.3	653.6	534.5	433.4	310.6	231.1	177.0	137.2	122.8	119.2
52.5°	18193.7	7905.1	581.4	483.9	372.0	263.6	187.8	137.2	104.7	93.9	90.3
55°	20689.2	8851.3	512.8	433.4	303.3	220.3	148.1	108.3	75.8	65.0	65.0
57.5°	23206.2	9779.4	429.7	361.1	238.3	162.5	115.6	79.4	50.6	39.7	39.7
60°	25336.9	10079.1	364.7	292.5	180.6	115.6	83.1	50.6	28.9	18.1	18.1
62.5°	25629.4	9068.0	307.0	223.9	130.0	79.4	43.3	28.9	10.8	7.2	7.2
65°	24040.4	7367.1	256.4	169.7	86.7	39.7	18.1	10.8	3.6	0.0	0.0
67°	21541.4	5973.1	209.5	126.4	61.4	25.3	10.8	3.6	0.0	0.0	0.0
67.5°	20902.2	5695.0	202.2	119.2	54.2	21.7	7.2	3.6	0.0	0.0	0.0
70°	16402.5	4264.9	144.5	72.2	32.5	14.4	0.0	0.0	0.0	0.0	0.0
72.5°	10194.7	2412.4	104.7	43.3	21.7	7.2	0.0	0.0	0.0	0.0	0.0
75°	3853.3	845.0	72.2	28.9	14.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1199.0	321.4	43.3	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	404.5	122.8	28.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	249.2	50.6	18.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	155.3	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.9	7.2	3.6	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)