

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: P647990

Luminaire Tested: **GALN-SA6A-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647990
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-SA6A-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 17564.2 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

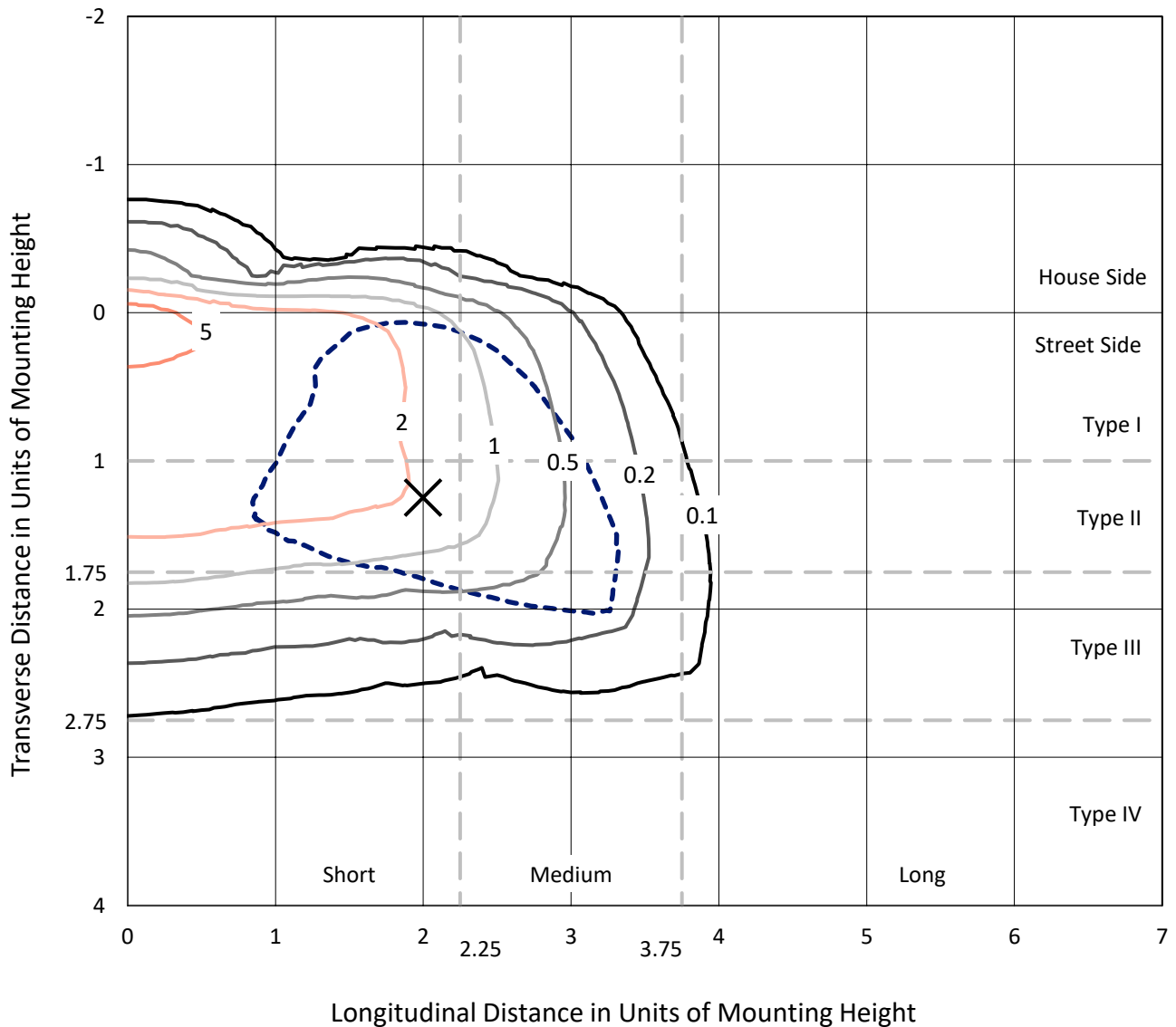
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

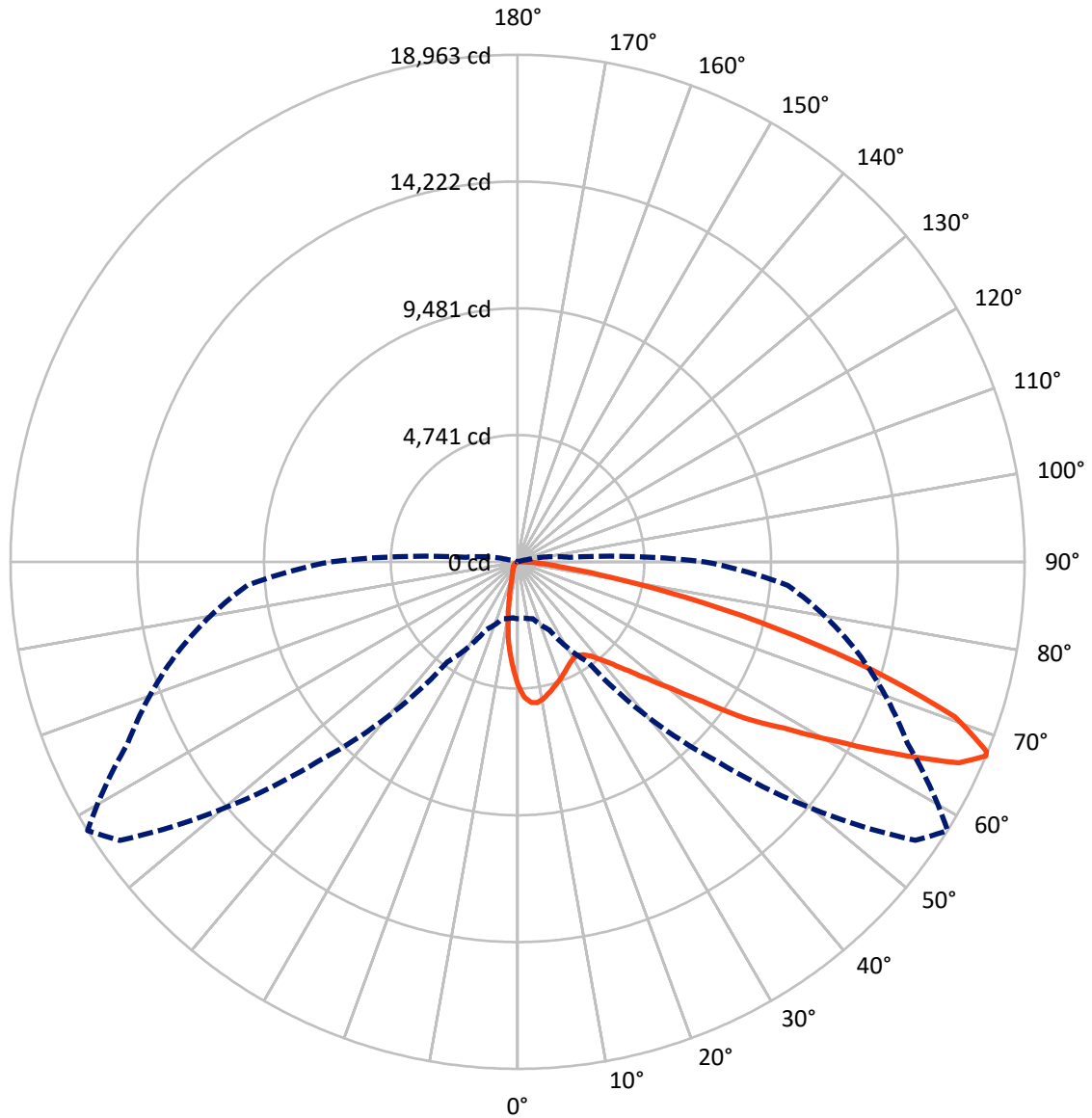
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	1267.5	0.0	1267.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16296.7	0.0	16296.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	17564.2	0.0	17564.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.8	2.2
10°-20°	816.0	4.6
20°-30°	1105.8	6.3
30°-40°	1533.6	8.7
40°-50°	2446.0	13.9
50°-60°	4228.1	24.1
60°-70°	4829.8	27.5
70°-80°	2013.6	11.5
80°-90°	213.5	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°	17564.2	100.0
0°-180°	17564.2	100.0



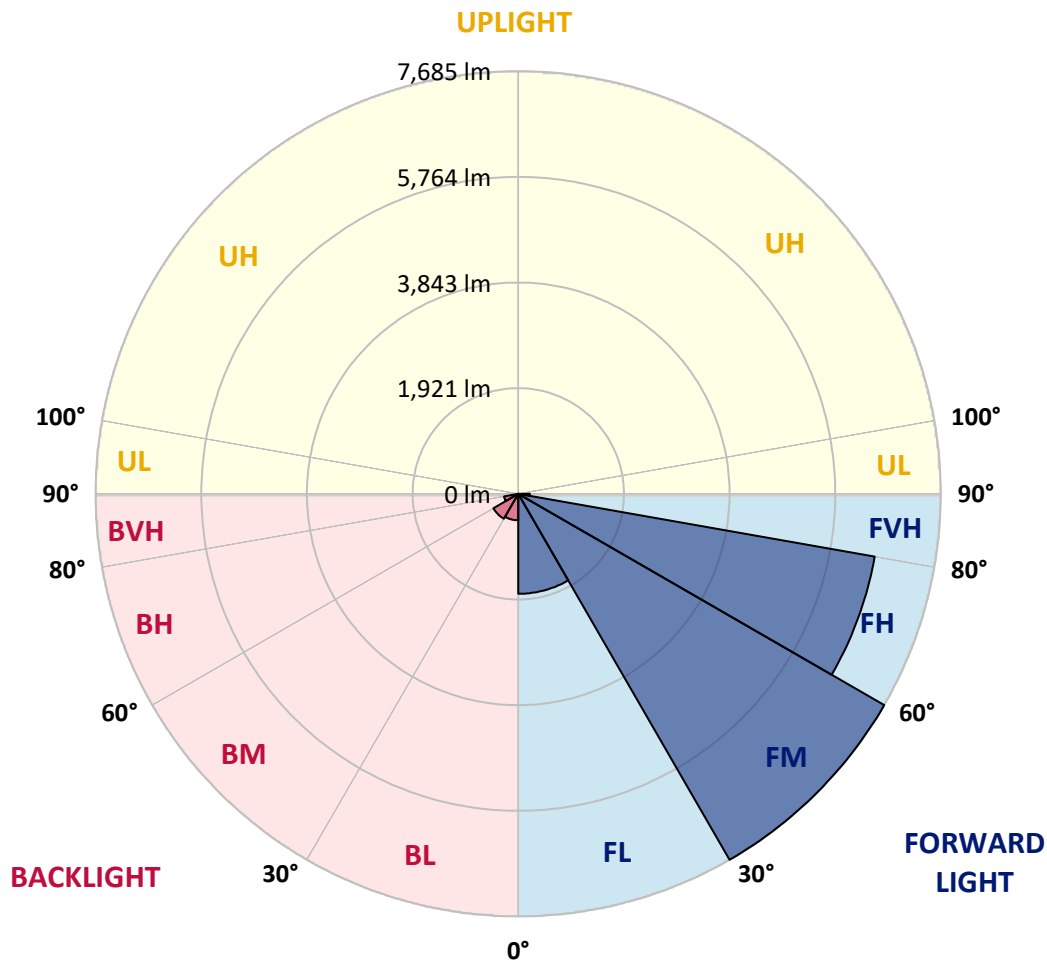
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.3	10.4			
FM (30°-60°)	7685.1	43.8			
FH (60°-80°)	6581.3	37.5			G3/7500
FVH (80°-90°)	211.9	1.2			G2/225
BL (0°-30°)	481.3	2.7	B1/500		
BM (30°-60°)	522.6	3.0	B1/1000		
BH (60°-80°)	262.0	1.5	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1
2.5°	5403.8	5412.0	5381.5	5356.8	5293.5	5225.4	5135.0	5086.8	5004.7	4862.7	4705.4
5°	5530.6	5541.1	5536.4	5530.6	5505.9	5440.1	5325.1	5282.9	5162.0	4930.8	4646.7
7.5°	5248.8	5287.6	5292.3	5338.0	5381.5	5387.4	5343.9	5312.3	5200.8	4929.6	4542.3
10°	4875.6	4901.4	4939.0	4991.8	5096.2	5183.1	5225.4	5220.7	5156.1	4893.2	4420.2
12.5°	4498.9	4512.9	4570.4	4660.8	4788.7	4936.7	5049.3	5071.6	5072.8	4849.8	4318.1
15°	4174.9	4169.0	4213.6	4318.1	4497.7	4683.1	4885.0	4920.2	4976.5	4807.5	4223.0
17.5°	3897.9	3928.4	3935.4	4050.5	4216.0	4456.6	4713.7	4775.8	4888.5	4771.1	4144.4
20°	3726.5	3743.0	3758.2	3822.8	3971.8	4225.4	4552.8	4638.5	4806.4	4738.2	4056.3
22.5°	3676.1	3686.6	3673.8	3693.6	3799.4	4024.7	4378.0	4491.8	4727.8	4707.8	3984.8
25°	3714.8	3725.4	3694.8	3671.4	3707.7	3861.5	4208.9	4347.5	4664.3	4701.9	3930.7
27.5°	3808.7	3828.6	3786.4	3744.1	3723.0	3773.5	4076.3	4237.1	4620.9	4730.1	3906.2
30°	3955.4	3967.1	3935.4	3883.8	3835.7	3785.3	4007.1	4160.8	4609.2	4795.8	3903.8
32.5°	4115.1	4139.7	4122.1	4088.0	4025.9	3906.2	4027.0	4163.1	4637.3	4890.9	3933.1
35°	4312.2	4340.4	4356.8	4349.8	4269.9	4120.9	4153.7	4268.8	4712.5	5065.8	4013.0
37.5°	4505.9	4530.5	4623.2	4654.9	4584.5	4443.7	4400.2	4476.6	4877.9	5294.6	4157.3
40°	4727.8	4760.6	4890.9	5011.7	4977.7	4829.9	4750.0	4813.4	5131.5	5639.7	4430.8
42.5°	4940.2	4998.8	5197.2	5410.8	5442.5	5277.0	5224.2	5245.3	5507.1	6136.2	4812.2
45°	5241.8	5297.0	5552.9	5842.7	5991.8	5862.7	5808.7	5805.2	6022.3	6834.6	5430.8
47.5°	5677.2	5726.5	6028.2	6314.6	6579.9	6597.5	6495.3	6530.5	6670.2	7651.5	6189.0
50°	6211.3	6327.5	6525.8	6824.0	7178.5	7464.8	7496.5	7449.5	7569.3	8597.4	7099.8
52.5°	6987.1	7031.7	7213.6	7458.9	7874.5	8360.3	8737.1	8672.6	8635.0	9498.9	8020.0
55°	7565.7	7625.6	7908.5	8245.3	8854.5	9495.4	10312.3	10334.6	9860.4	10365.0	8920.2
57.5°	7390.9	7482.4	7910.8	8588.1	9927.3	11098.6	11706.6	11721.9	10994.2	11206.6	9936.7
60°	6492.9	6536.4	7150.3	8054.0	10018.8	12835.7	13684.3	13561.1	12147.9	12147.9	10834.5
62.5°	4604.5	4672.6	5170.2	6500.0	9048.2	13439.0	16052.9	15798.2	13737.1	13048.1	11369.8
65°	2942.5	2876.7	3206.6	4103.3	6740.6	12548.2	18115.1	18130.4	15232.5	13408.5	11077.5
67°	2131.5	2105.6	2200.7	2805.2	4570.4	10548.2	18158.6	18962.5	16091.6	13180.8	10143.2
67.5°	1949.5	1969.5	2038.8	2530.5	4152.6	9598.6	17961.3	18913.2	16285.3	13043.4	9805.2
70°	1477.7	1443.7	1518.8	1789.9	2489.5	6055.2	15450.8	17346.3	16044.7	11680.8	7834.5
72.5°	1086.9	1083.4	1187.8	1463.6	1916.7	3225.3	11598.7	13908.5	13108.0	8894.4	4933.1
75°	733.6	766.4	933.1	1223.0	1737.1	2091.5	7907.3	10090.4	9099.8	5050.5	2016.5
77.5°	417.8	420.2	601.0	982.4	1559.9	1683.1	4685.5	6428.4	4816.9	1679.6	598.6
80°	180.7	198.3	298.1	713.6	1293.4	1490.6	2686.6	3532.9	1948.3	355.6	193.6
82.5°	66.9	78.6	131.5	438.9	943.7	1227.7	1623.2	1686.7	660.8	125.6	120.9
85°	0.0	2.3	48.2	205.4	491.8	548.1	1084.5	1000.0	292.3	59.8	78.6
87.5°	0.0	0.0	0.0	21.1	64.5	204.2	336.8	375.6	70.4	21.1	18.8
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°	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1	4656.1
2.5°	4620.9	4544.6	4353.3	4162.0	4020.0	3901.5	3723.0	3625.6	3573.9	3497.7	3502.4
5°	4504.7	4349.8	4013.0	3664.4	3382.6	3108.0	2779.3	2646.7	2535.2	2471.9	2429.6
7.5°	4332.2	4103.3	3604.5	3139.7	2706.6	2226.5	1866.2	1625.6	1463.6	1403.8	1346.2
10°	4143.2	3839.2	3190.2	2545.8	1944.8	1449.6	1144.4	923.7	845.1	772.3	779.3
12.5°	3968.3	3598.6	2809.9	2009.4	1362.7	921.4	718.3	628.0	602.1	593.9	593.9
15°	3825.1	3368.5	2401.4	1510.6	934.3	661.9	575.1	550.4	541.1	538.7	538.7
17.5°	3672.6	3150.2	2032.9	1116.2	679.6	554.0	524.7	508.2	504.7	502.4	502.4
20°	3536.4	2930.8	1683.1	831.0	549.3	498.8	480.1	469.5	466.0	463.6	464.8
22.5°	3407.3	2736.0	1354.4	628.0	483.6	454.2	435.4	424.9	417.8	411.9	413.1
25°	3292.3	2548.1	1089.2	514.1	435.4	409.6	390.9	375.6	360.3	353.3	352.1
27.5°	3211.3	2383.8	848.6	440.1	392.0	363.9	340.4	321.6	301.6	291.1	288.8
30°	3144.4	2217.1	671.3	388.5	348.6	321.6	292.3	265.3	244.1	233.6	228.9
32.5°	3100.9	2058.7	529.3	346.2	312.2	279.4	246.5	219.5	196.0	185.4	183.1
35°	3093.9	1926.1	433.1	311.0	279.4	244.1	210.1	180.7	160.8	150.3	147.9
37.5°	3144.4	1823.9	362.7	282.9	252.4	213.6	176.0	149.1	131.5	123.2	122.1
40°	3279.4	1759.4	314.5	259.4	227.7	185.4	150.3	126.8	109.2	100.9	100.9
42.5°	3536.4	1761.8	282.9	237.1	203.0	158.5	127.9	105.6	90.4	83.3	81.0
45°	3937.8	1841.5	255.9	214.8	179.5	137.3	109.2	86.8	71.6	65.7	65.7
47.5°	4475.4	2000.0	232.4	192.5	158.5	117.4	92.7	70.4	57.6	51.7	51.7
50°	5178.4	2254.7	212.4	173.7	140.9	100.9	75.1	57.6	44.6	39.9	38.8
52.5°	5913.1	2569.3	188.9	157.3	120.9	85.7	61.0	44.6	34.1	30.5	29.4
55°	6724.2	2876.7	166.7	140.9	98.6	71.6	48.2	35.2	24.7	21.1	21.1
57.5°	7542.2	3178.4	139.7	117.4	77.4	52.9	37.6	25.8	16.4	12.9	12.9
60°	8234.8	3275.8	118.5	95.1	58.6	37.6	27.0	16.4	9.4	5.9	5.9
62.5°	8329.9	2947.2	99.8	72.7	42.3	25.8	14.1	9.4	3.5	2.3	2.3
65°	7813.4	2394.4	83.3	55.2	28.2	12.9	5.9	3.5	1.2	0.0	0.0
67°	7001.2	1941.3	68.0	41.1	20.0	8.2	3.5	1.2	0.0	0.0	0.0
67.5°	6793.5	1850.9	65.7	38.8	17.6	7.0	2.3	1.2	0.0	0.0	0.0
70°	5331.0	1386.1	47.0	23.5	10.6	4.7	0.0	0.0	0.0	0.0	0.0
72.5°	3313.4	784.0	34.1	14.1	7.0	2.3	0.0	0.0	0.0	0.0	0.0
75°	1252.3	274.7	23.5	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	389.7	104.5	14.1	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	131.5	39.9	9.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.0	16.4	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.5	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	2.3	1.2	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)