

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: P459493

Luminaire Tested: **GALN-SA9B-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459493  
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-SA9B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA 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: 37623 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

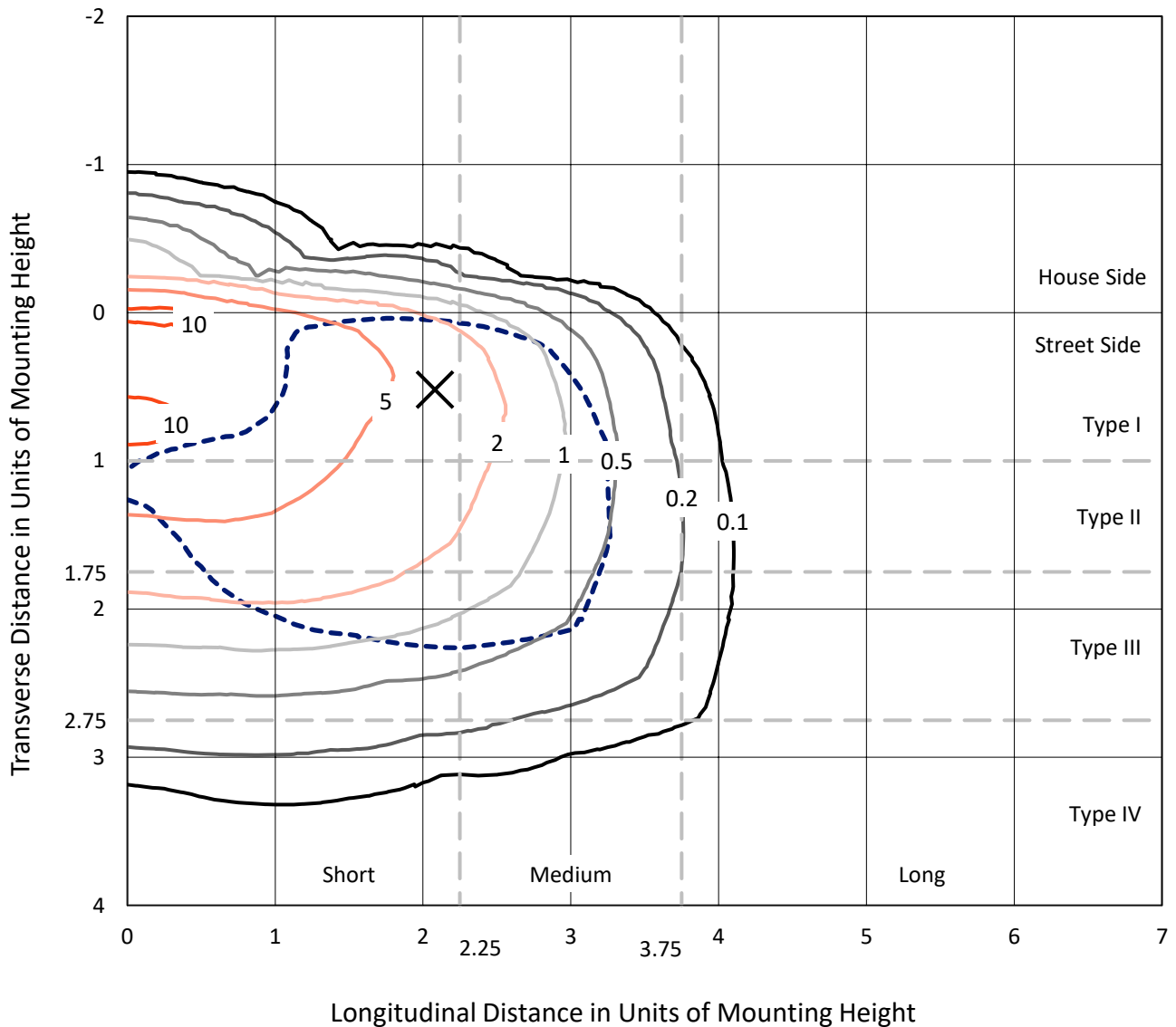
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

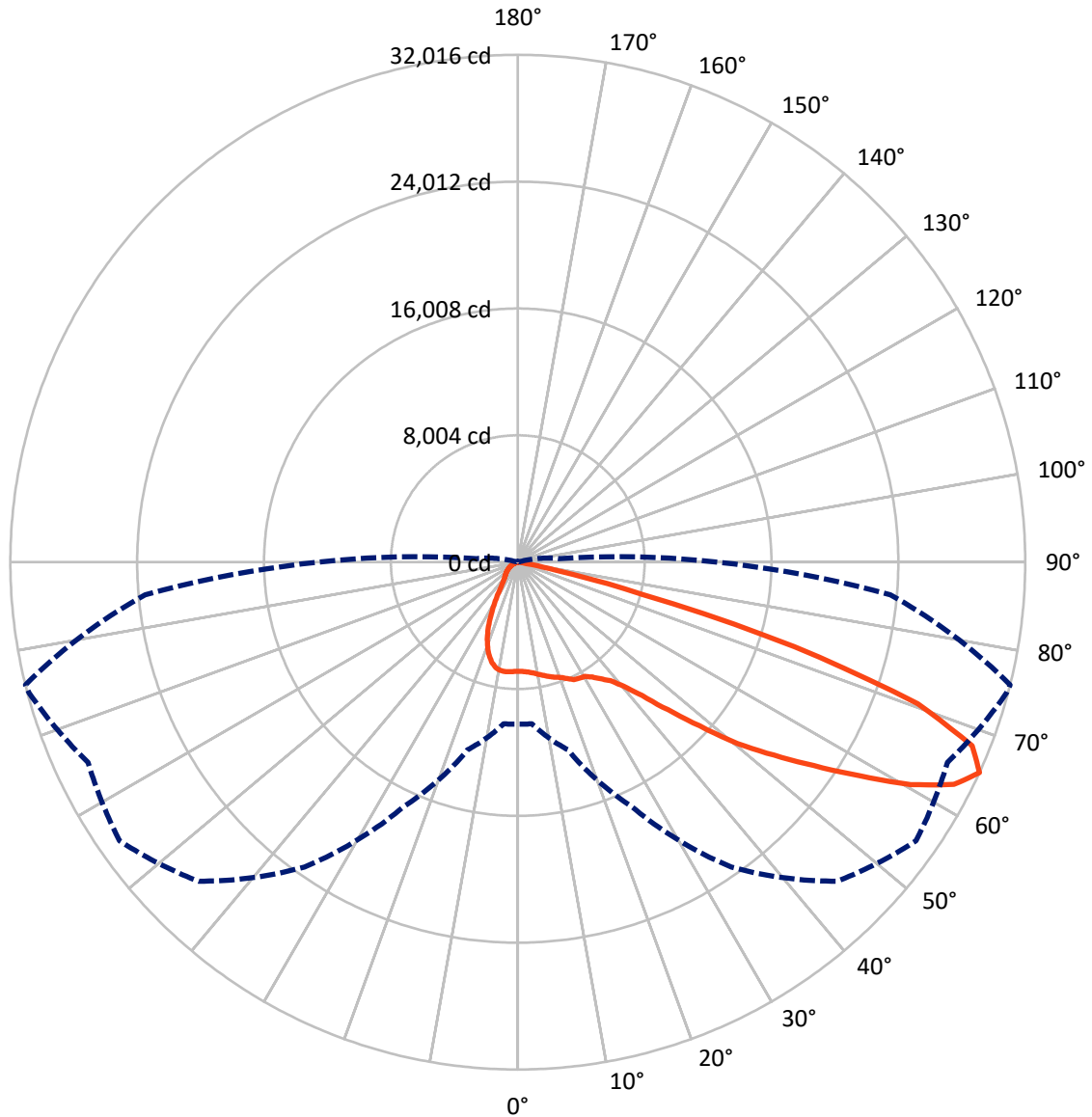
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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
<b>House Side</b>	Lumens	2717.1	0.0	2717.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	34905.9	0.0	34905.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	37623.0	0.0	37623.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.9	1.5
10°-20°	1262.4	3.4
20°-30°	2034.2	5.4
30°-40°	3536.9	9.4
40°-50°	5844.6	15.5
50°-60°	9028.7	24.0
60°-70°	11025.3	29.3
70°-80°	4184.4	11.1
80°-90°	139.6	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°	37623.0	100.0
0°-180°	37623.0	100.0

**Coefficient of Utilization**



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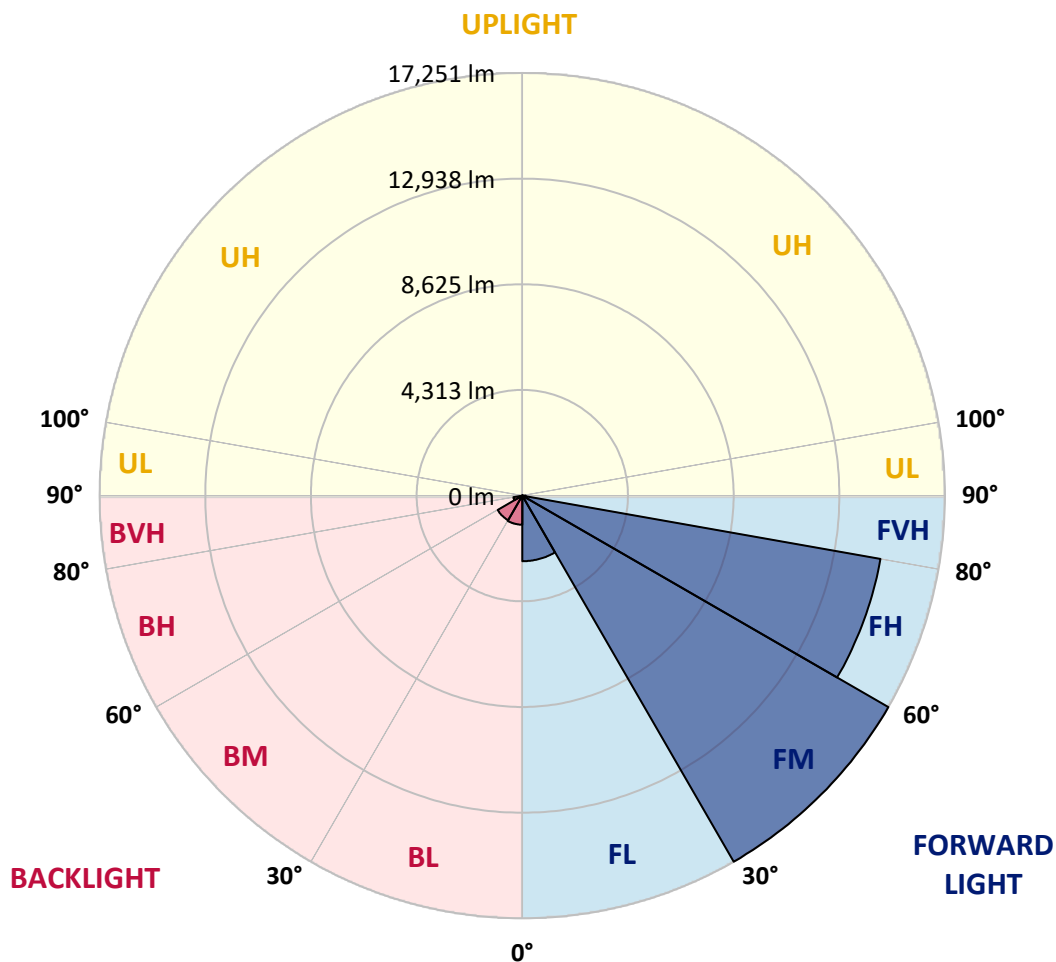
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2676.4	7.1			
FM	(30°-60°)	17250.7	45.9			
FH	(60°-80°)	14841.0	39.4			G5
FVH	(80°-90°)	137.7	0.4			G2/225
BL	(0°-30°)	1187.1	3.2	B3/2500		
BM	(30°-60°)	1159.5	3.1	B2/2500		
BH	(60°-80°)	368.7	1.0	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4
2.5°	6577.0	6579.6	6595.6	6635.4	6696.5	6747.0	6789.5	6858.5	6906.4	6911.7	6927.6
5°	6122.7	6090.9	6122.7	6226.3	6319.3	6460.1	6632.8	6805.4	6959.5	6970.1	7044.5
7.5°	5612.7	5639.3	5689.8	5796.0	5971.3	6186.5	6436.2	6744.3	7036.5	7063.1	7209.2
10°	5094.8	5153.2	5235.5	5397.6	5642.0	5920.9	6260.9	6701.8	7158.7	7195.9	7448.2
12.5°	4616.6	4643.2	4744.1	4961.9	5264.8	5657.9	6128.1	6677.9	7294.2	7339.3	7703.2
15°	4250.1	4284.6	4372.3	4568.8	4906.2	5410.9	6019.2	6669.9	7427.0	7490.7	7958.2
17.5°	4181.0	4202.3	4239.4	4372.3	4667.1	5214.3	5920.9	6667.3	7554.5	7631.5	8194.7
20°	4465.2	4446.6	4409.4	4396.2	4558.2	5062.9	5849.2	6688.5	7676.7	7764.3	8444.3
22.5°	5177.1	5201.0	4983.2	4725.5	4672.4	5039.0	5838.5	6789.5	7870.6	7974.2	8723.3
25°	6688.5	6505.3	6165.2	5549.0	5084.1	5185.1	5958.1	7028.5	8096.4	8210.6	8975.6
27.5°	8359.3	8303.6	7775.0	6760.3	5894.3	5493.2	6170.6	7211.8	8170.7	8287.6	9119.0
30°	10000.9	10067.3	9461.7	8340.8	7071.0	6064.3	6369.8	7280.9	8237.2	8359.3	9302.3
32.5°	11523.0	11602.7	11071.4	9961.1	8457.6	7052.4	6712.4	7549.2	8516.1	8640.9	9607.8
35°	12721.0	12731.6	12330.5	11446.0	9971.7	8253.1	7453.5	8019.3	8893.3	9039.4	9931.9
37.5°	13820.7	13804.7	13334.6	12572.2	11233.5	9445.8	8385.9	8561.2	9323.6	9475.0	10399.4
40°	14636.2	14646.8	14495.4	13778.2	12410.2	10548.1	9124.4	9068.6	10046.1	10282.5	11079.4
42.5°	15180.7	15279.0	15353.4	14989.4	13889.7	11905.5	10258.6	10155.0	11299.9	11496.4	12041.0
45°	15621.6	15797.0	16168.8	16150.2	15310.9	13571.0	11815.2	11602.7	13076.9	13286.8	13265.5
47.5°	15943.1	16121.0	16737.3	17109.2	16647.0	15186.0	13772.9	13589.6	15199.3	15427.7	14617.6
50°	16107.7	16320.2	17106.5	17826.4	17690.9	16742.6	16004.1	16014.8	17762.6	17983.1	16184.8
52.5°	15722.6	15998.8	17303.1	18599.3	18862.3	18232.8	18094.6	18445.3	20044.4	20233.0	17600.6
55°	14492.7	14840.7	17034.8	19258.1	20219.7	19991.2	20469.4	21003.3	22538.6	22660.8	19053.6
57.5°	13714.4	14083.6	16243.2	19818.6	21850.6	22201.3	22958.3	23348.8	25112.6	25423.4	20721.7
60°	13058.3	13347.9	15592.4	19938.1	23508.2	24905.4	25641.2	26044.9	28289.5	28491.4	22557.2
62.5°	11966.6	12298.6	14492.7	19104.0	24342.2	27070.3	28595.0	28414.3	30746.6	30887.3	23683.5
65°	10210.8	10240.0	12261.4	17008.2	23481.6	28475.4	30669.5	29912.5	31920.6	32016.3	23595.8
67.5°	7620.9	7902.5	9432.5	13369.1	19834.5	27274.8	31341.6	29952.3	31179.5	30913.9	21723.1
70°	4908.8	5124.0	6393.7	9270.5	14301.5	22761.7	29112.9	27899.0	27365.1	26775.4	17781.2
72.5°	2265.8	2542.1	3798.5	5296.6	8481.5	16214.0	23633.0	22666.1	19696.4	18240.7	11302.5
75°	988.1	1057.2	1875.3	2794.4	3976.5	8574.5	15581.8	14070.4	8895.9	8125.6	4523.7
77.5°	603.0	648.1	982.8	1498.1	1561.9	3267.2	8393.9	6138.7	2749.3	2425.2	1227.2
80°	409.1	459.5	714.5	783.6	533.9	911.1	3150.4	1638.9	555.2	531.3	263.0
82.5°	199.2	252.3	528.6	438.3	231.1	292.2	916.4	350.6	162.0	151.4	93.0
85°	29.2	50.5	297.5	286.9	103.6	69.1	162.0	87.7	55.8	53.1	42.5
87.5°	0.0	0.0	100.9	45.2	10.6	10.6	18.6	18.6	21.3	18.6	21.3
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°	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4	6882.4
2.5°	6935.6	6948.9	6898.4	6826.7	6749.6	6672.6	6563.7	6465.4	6407.0	6441.5	6356.5
5°	7060.4	7049.8	6917.0	6699.2	6409.6	6061.7	5716.3	5421.5	5325.9	5182.4	5166.5
7.5°	7233.1	7203.9	6922.3	6422.9	5769.5	5116.0	4478.5	4056.2	3814.4	3609.9	3615.2
10°	7474.8	7389.8	6861.2	5936.8	4861.0	3875.5	3062.7	2504.9	2263.2	2186.1	2125.0
12.5°	7724.5	7559.8	6691.2	5280.7	3785.2	2648.3	1862.1	1522.1	1373.3	1325.5	1320.2
15°	7947.6	7687.3	6393.7	4491.8	2751.9	1692.1	1269.7	1158.1	1139.5	1142.2	1139.5
17.5°	8168.1	7788.2	5982.0	3655.1	1870.0	1213.9	1091.7	1065.2	1073.1	1083.8	1081.1
20°	8351.4	7809.5	5456.0	2789.1	1322.8	1065.2	1025.3	1020.0	1028.0	1036.0	1036.0
22.5°	8550.6	7825.4	4831.8	1931.1	1081.1	990.8	969.5	969.5	980.2	990.8	993.5
25°	8699.3	7737.8	4085.4	1386.6	953.6	919.1	908.5	911.1	921.7	927.0	924.4
27.5°	8723.3	7490.7	3293.8	1062.5	866.0	831.4	820.8	831.4	818.1	826.1	820.8
30°	8744.5	7177.3	2491.6	895.2	786.3	733.1	717.2	701.3	690.6	677.4	674.7
32.5°	8810.9	6808.1	1819.6	804.9	711.9	653.4	616.3	571.1	536.6	525.9	523.3
35°	8840.1	6364.5	1336.1	733.1	645.5	581.7	515.3	451.6	401.1	382.5	395.8
37.5°	8951.7	5934.2	1036.0	680.0	587.0	507.4	422.4	342.7	294.8	284.2	289.5
40°	9180.1	5466.6	868.6	634.9	536.6	438.3	334.7	257.7	225.8	215.2	212.5
42.5°	9546.7	5001.8	773.0	592.4	486.1	369.2	263.0	201.9	175.3	167.3	167.3
45°	9993.0	4555.5	706.6	547.2	433.0	297.5	207.2	162.0	146.1	140.8	140.8
47.5°	10580.0	4165.1	650.8	502.0	374.5	236.4	167.3	140.8	130.2	132.8	135.5
50°	11175.0	3875.5	589.7	451.6	308.1	193.9	143.4	124.8	122.2	124.8	124.8
52.5°	11623.9	3705.5	507.4	382.5	241.7	162.0	127.5	116.9	114.2	108.9	108.9
55°	12229.6	3668.3	403.8	310.8	191.3	135.5	114.2	106.3	98.3	93.0	90.3
57.5°	13007.9	3710.8	310.8	241.7	148.8	111.6	100.9	87.7	77.0	66.4	66.4
60°	13491.3	3615.2	241.7	185.9	108.9	90.3	77.0	63.8	50.5	42.5	39.8
62.5°	13337.2	3211.5	191.3	138.1	77.0	66.4	50.5	42.5	29.2	21.3	18.6
65°	12543.0	2592.5	154.1	95.6	55.8	39.8	26.6	26.6	13.3	2.7	0.0
67.5°	10978.4	1920.5	122.2	63.8	31.9	18.6	13.3	8.0	0.0	0.0	0.0
70°	8935.8	1386.6	95.6	39.8	18.6	13.3	5.3	2.7	0.0	0.0	0.0
72.5°	5673.8	794.2	74.4	23.9	13.3	5.3	0.0	0.0	0.0	0.0	0.0
75°	2194.1	310.8	50.5	15.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	621.6	146.1	29.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	162.0	63.8	15.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	77.0	26.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.2	10.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	2.7	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)