

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: P459478

Luminaire Tested: **GALN-SA9B-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459478  
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-SA9B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA 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: 39751 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

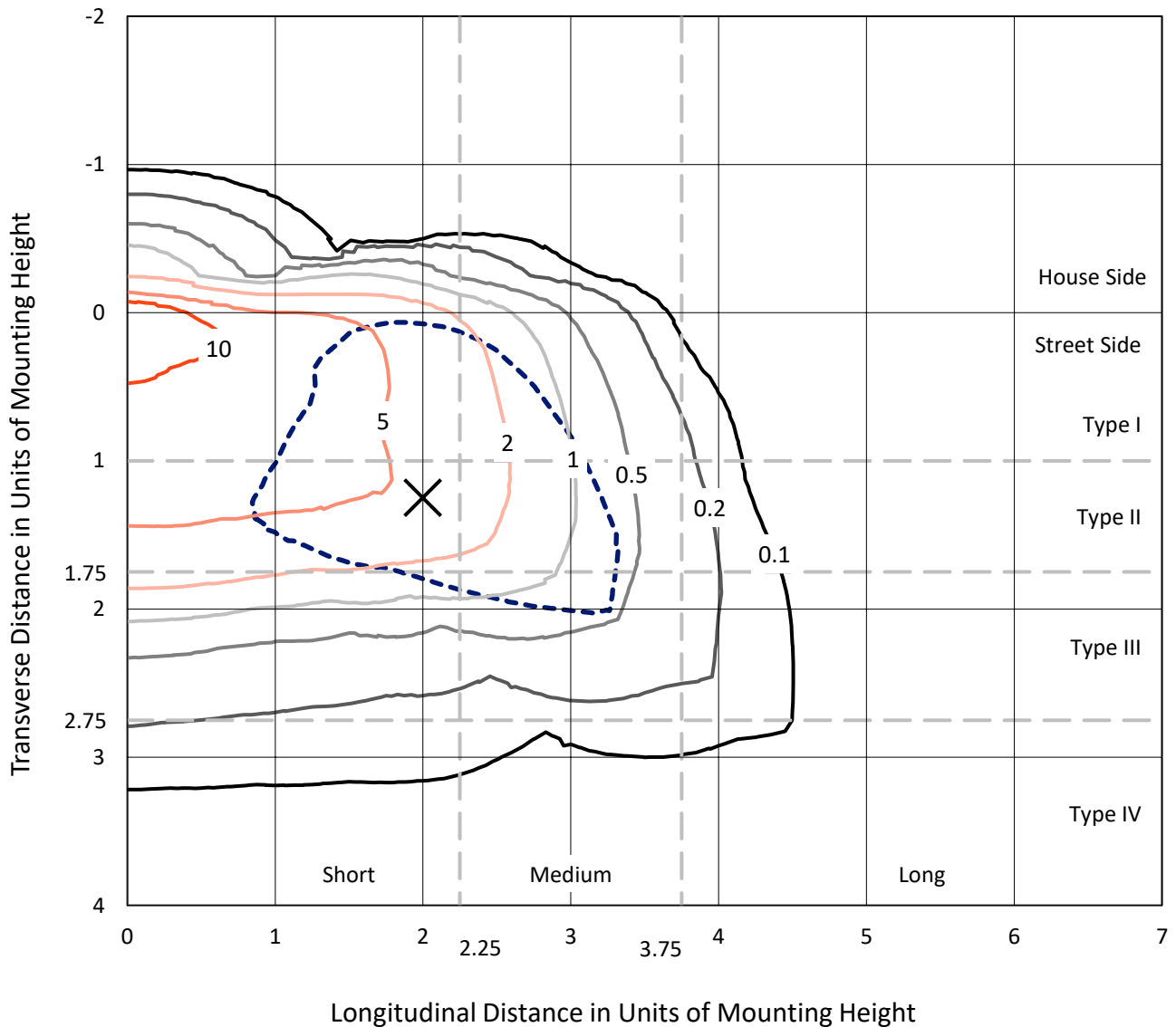
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

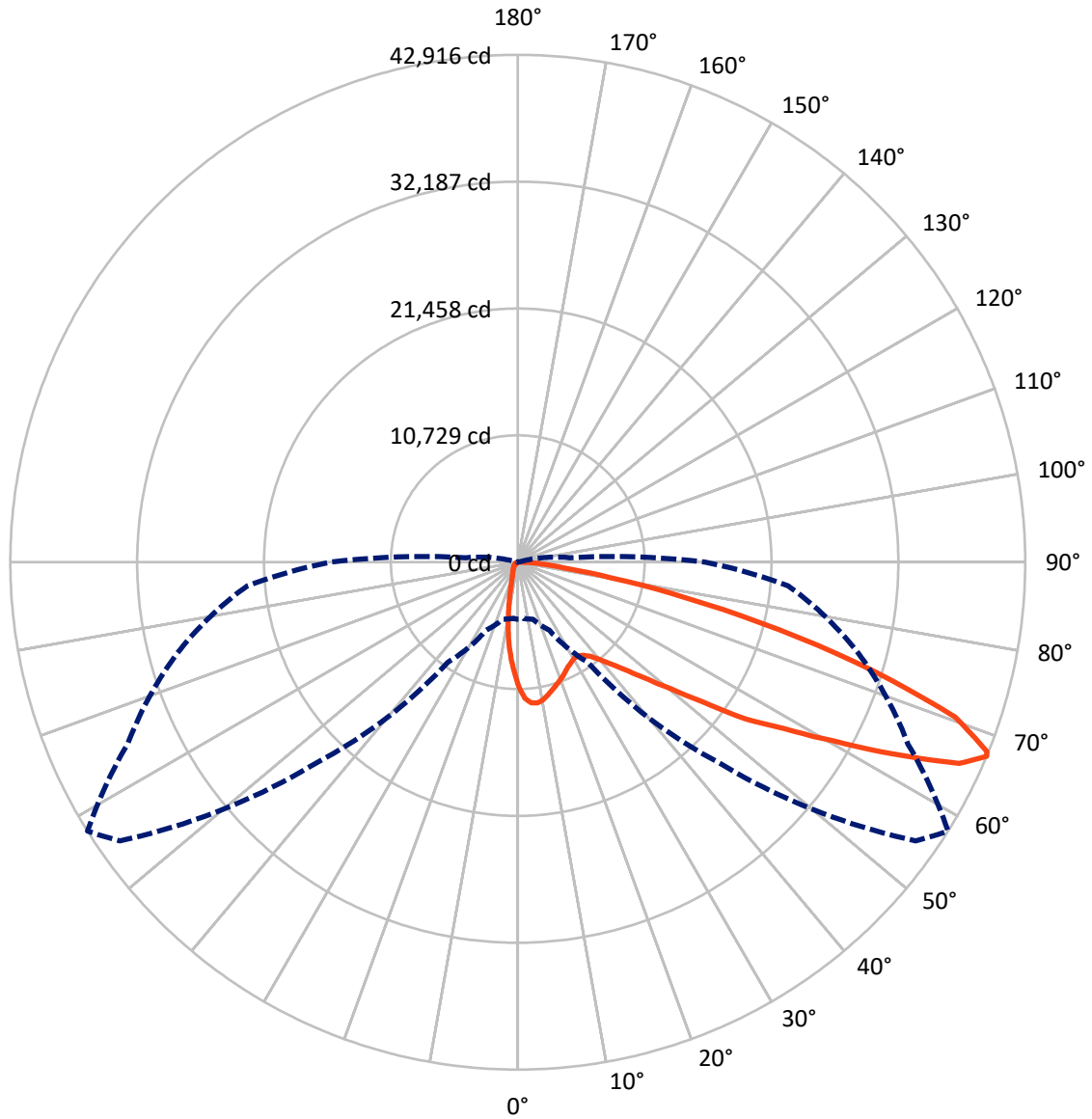
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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	2868.7	0.0	2868.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	36882.3	0.0	36882.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	39751.0	0.0	39751.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	855.1	2.2
10°-20°	1846.8	4.6
20°-30°	2502.6	6.3
30°-40°	3470.9	8.7
40°-50°	5535.7	13.9
50°-60°	9568.9	24.1
60°-70°	10930.7	27.5
70°-80°	4557.1	11.5
80°-90°	483.2	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°	39751.0	100.0
0°-180°	39751.0	100.0

**Coefficient of Utilization**



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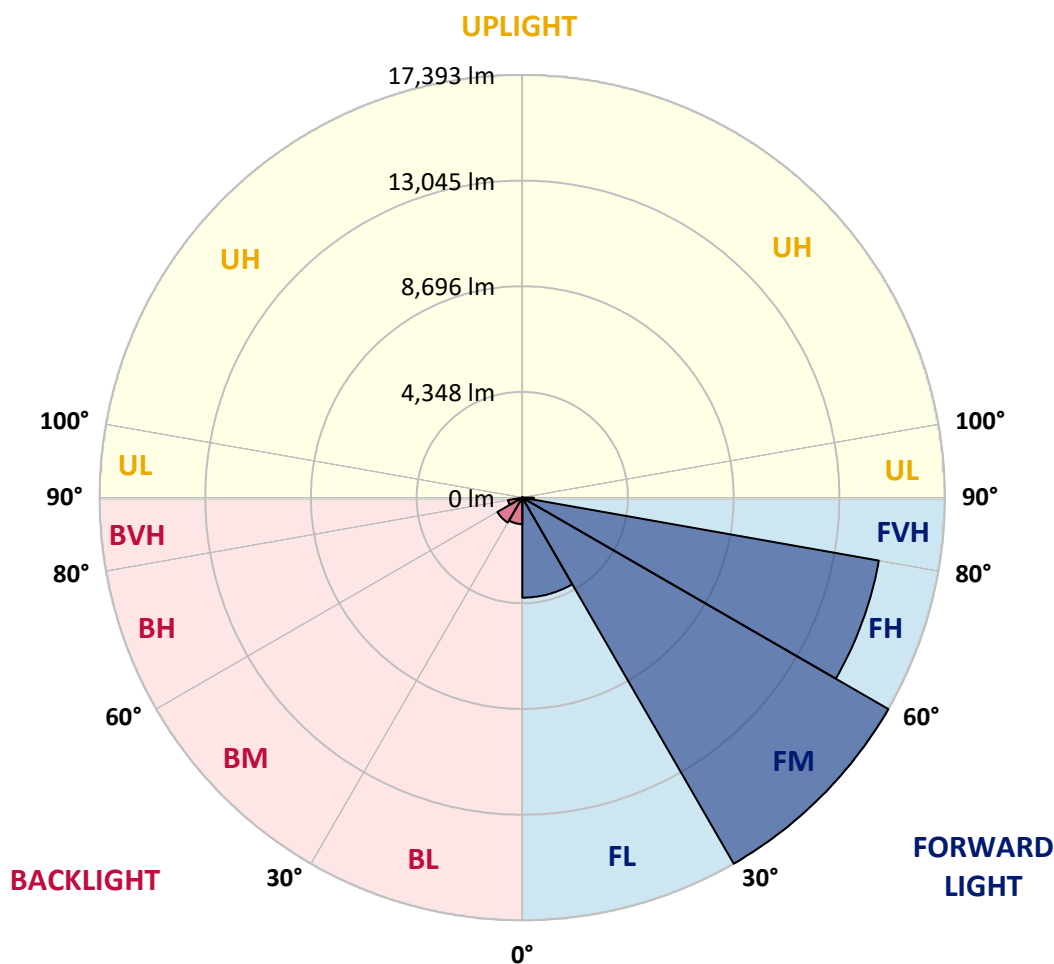
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4115.2	10.4			
FM (30°-60°)	17392.7	43.8			
FH (60°-80°)	14894.8	37.5			G5
FVH (80°-90°)	479.7	1.2			G3/500
BL (0°-30°)	1089.3	2.7	B3/2500		
BM (30°-60°)	1182.8	3.0	B2/2500		
BH (60°-80°)	593.0	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6
2.5°	12229.7	12248.3	12179.2	12123.4	11980.0	11825.9	11621.4	11512.5	11326.6	11005.1	10649.2
5°	12516.6	12540.5	12529.9	12516.6	12460.8	12312.0	12051.7	11956.1	11682.5	11159.2	10516.4
7.5°	11879.1	11966.7	11977.4	12080.9	12179.2	12192.5	12094.2	12022.5	11770.2	11156.5	10280.0
10°	11034.4	11092.8	11177.8	11297.3	11533.7	11730.3	11825.9	11815.3	11669.2	11074.2	10003.7
12.5°	10181.7	10213.6	10343.7	10548.3	10837.8	11172.5	11427.5	11478.0	11480.6	10975.9	9772.6
15°	9448.5	9435.3	9536.2	9772.6	10179.0	10598.7	11055.6	11135.3	11262.8	10880.3	9557.4
17.5°	8821.6	8890.7	8906.6	9167.0	9541.5	10086.1	10667.8	10808.6	11063.6	10797.9	9379.5
20°	8433.8	8471.0	8505.5	8651.6	8989.0	9562.8	10303.9	10497.8	10877.6	10723.6	9180.2
22.5°	8319.6	8343.5	8314.3	8359.4	8598.5	9108.5	9908.1	10165.7	10699.7	10654.5	9018.2
25°	8407.3	8431.2	8362.1	8309.0	8391.3	8739.3	9525.6	9839.0	10556.2	10641.2	8896.0
27.5°	8619.8	8664.9	8569.3	8473.7	8425.8	8540.1	9225.4	9589.3	10457.9	10705.0	8840.2
30°	8951.8	8978.4	8906.6	8789.8	8680.9	8566.6	9068.7	9416.7	10431.4	10853.7	8834.9
32.5°	9313.1	9368.8	9329.0	9252.0	9111.2	8840.2	9113.8	9422.0	10495.1	11068.9	8901.3
35°	9759.3	9823.1	9860.3	9844.3	9663.7	9326.3	9400.7	9661.0	10665.1	11464.7	9082.0
37.5°	10197.6	10253.4	10463.2	10535.0	10375.6	10056.8	9958.5	10131.2	11039.7	11982.7	9408.7
40°	10699.7	10774.0	11068.9	11342.5	11265.5	10930.8	10750.1	10893.6	11613.4	12763.6	10027.6
42.5°	11180.5	11313.3	11762.2	12245.6	12317.4	11942.8	11823.3	11871.1	12463.5	13887.2	10890.9
45°	11863.1	11988.0	12567.1	13223.2	13560.5	13268.3	13146.1	13138.2	13629.6	15467.8	12290.8
47.5°	12848.6	12960.2	13642.9	14291.0	14891.3	14931.2	14700.1	14779.8	15095.9	17316.6	14006.8
50°	14057.3	14320.2	14769.1	15443.8	16246.1	16894.2	16965.9	16859.7	17130.6	19457.6	16068.1
52.5°	15813.1	15914.0	16325.7	16880.9	17821.3	18921.0	19773.7	19627.6	19542.6	21497.6	18150.6
55°	17122.6	17258.1	17898.3	18660.7	20039.3	21489.6	23338.4	23388.9	22315.8	23458.0	20188.0
57.5°	16726.9	16934.0	17903.6	19436.3	22467.2	25118.2	26494.1	26528.7	24881.8	25362.6	22488.4
60°	14694.8	14793.1	16182.3	18227.7	22674.4	29049.5	30970.0	30691.1	27492.9	27492.9	24520.5
62.5°	10420.7	10574.8	11701.1	14710.7	20477.6	30414.9	36330.5	35754.1	31089.6	29530.3	25731.8
65°	6659.4	6510.6	7257.1	9286.5	15255.3	28398.7	40997.7	41032.2	34473.7	30345.8	25070.4
67°	4823.9	4765.4	4980.6	6348.6	10343.7	23872.4	41095.9	42915.5	36418.2	29830.5	22955.9
67.5°	4412.1	4457.3	4614.0	5727.0	9398.1	21723.4	40649.7	42804.0	36856.5	29519.7	22190.9
70°	3344.3	3267.3	3437.3	4050.9	5634.1	13704.0	34967.8	39257.8	36311.9	26435.7	17730.9
72.5°	2459.8	2451.8	2688.2	3312.4	4337.8	7299.6	26249.8	31477.4	29665.8	20129.6	11164.5
75°	1660.2	1734.6	2111.8	2767.9	3931.4	4733.6	17895.6	22836.4	20594.5	11430.1	4563.6
77.5°	945.7	951.0	1360.0	2223.3	3530.3	3809.2	10604.0	14548.7	10901.5	3801.2	1354.7
80°	409.1	448.9	674.7	1615.0	2927.3	3373.5	6080.3	7995.5	4409.5	804.9	438.3
82.5°	151.4	178.0	297.5	993.5	2135.7	2778.5	3673.7	3817.1	1495.5	284.2	273.6
85°	0.0	5.3	108.9	464.9	1113.0	1240.5	2454.4	2263.2	661.4	135.5	178.0
87.5°	0.0	0.0	0.0	47.8	146.1	462.2	762.4	850.0	159.4	47.8	42.5
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°	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6	10537.6
2.5°	10457.9	10285.3	9852.3	9419.3	9097.9	8829.6	8425.8	8205.4	8088.5	7915.8	7926.5
5°	10195.0	9844.3	9082.0	8293.0	7655.5	7033.9	6290.2	5990.0	5737.7	5594.2	5498.6
7.5°	9804.5	9286.5	8157.6	7105.7	6125.5	5039.0	4223.6	3679.0	3312.4	3177.0	3046.8
10°	9376.8	8688.8	7219.9	5761.6	4401.5	3280.6	2589.9	2090.5	1912.6	1747.9	1763.8
12.5°	8981.0	8144.3	6359.2	4547.6	3084.0	2085.2	1625.7	1421.1	1362.7	1344.1	1344.1
15°	8656.9	7623.6	5434.8	3418.7	2114.4	1498.2	1301.6	1245.8	1224.6	1219.3	1219.3
17.5°	8311.6	7129.6	4600.7	2526.2	1538.0	1253.8	1187.4	1150.2	1142.2	1136.9	1136.9
20°	8003.5	6632.8	3809.2	1880.7	1243.2	1128.9	1086.4	1062.5	1054.6	1049.2	1051.9
22.5°	7711.3	6191.9	3065.4	1421.1	1094.4	1028.0	985.5	961.6	945.7	932.4	935.0
25°	7451.0	5766.9	2465.1	1163.5	985.5	927.1	884.6	850.0	815.5	799.6	796.9
27.5°	7267.7	5395.0	1920.5	996.1	887.2	823.5	770.3	727.8	682.7	658.8	653.5
30°	7116.3	5017.8	1519.4	879.2	788.9	727.8	661.4	600.3	552.5	528.6	518.0
32.5°	7018.0	4659.2	1198.0	783.6	706.6	632.2	557.8	496.7	443.6	419.7	414.4
35°	7002.1	4359.0	980.2	703.9	632.2	552.5	475.5	409.1	363.9	340.0	334.7
37.5°	7116.3	4127.9	820.8	640.2	571.1	483.5	398.4	337.4	297.5	278.9	276.3
40°	7421.8	3981.8	711.9	587.0	515.3	419.7	340.0	286.9	247.0	228.4	228.4
42.5°	8003.5	3987.1	640.2	536.6	459.5	358.6	289.5	239.1	204.5	188.6	183.3
45°	8912.0	4167.8	579.1	486.1	406.4	310.8	247.0	196.6	162.0	148.8	148.8
47.5°	10128.6	4526.4	526.0	435.6	358.6	265.6	209.8	159.4	130.2	116.9	116.9
50°	11719.7	5102.8	480.8	393.1	318.8	228.4	170.0	130.2	100.9	90.3	87.7
52.5°	13382.5	5814.7	427.7	355.9	273.6	193.9	138.1	100.9	77.0	69.1	66.4
55°	15218.1	6510.6	377.2	318.8	223.1	162.0	108.9	79.7	55.8	47.8	47.8
57.5°	17069.5	7193.3	316.1	265.6	175.3	119.5	85.0	58.4	37.2	29.2	29.2
60°	18636.7	7413.8	268.3	215.2	132.8	85.0	61.1	37.2	21.3	13.3	13.3
62.5°	18851.9	6670.0	225.8	164.7	95.6	58.4	31.9	21.3	8.0	5.3	5.3
65°	17683.1	5418.9	188.6	124.8	63.8	29.2	13.3	8.0	2.7	0.0	0.0
67°	15845.0	4393.6	154.1	93.0	45.2	18.6	8.0	2.7	0.0	0.0	0.0
67.5°	15374.8	4189.0	148.8	87.7	39.8	15.9	5.3	2.7	0.0	0.0	0.0
70°	12065.0	3137.1	106.3	53.1	23.9	10.6	0.0	0.0	0.0	0.0	0.0
72.5°	7498.8	1774.4	77.0	31.9	15.9	5.3	0.0	0.0	0.0	0.0	0.0
75°	2834.3	621.6	53.1	21.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	881.9	236.4	31.9	15.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	297.5	90.3	21.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	183.3	37.2	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	114.2	15.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	5.3	2.7	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)