

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: P459389

Luminaire Tested: **GALN-SA8C-735-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43282 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

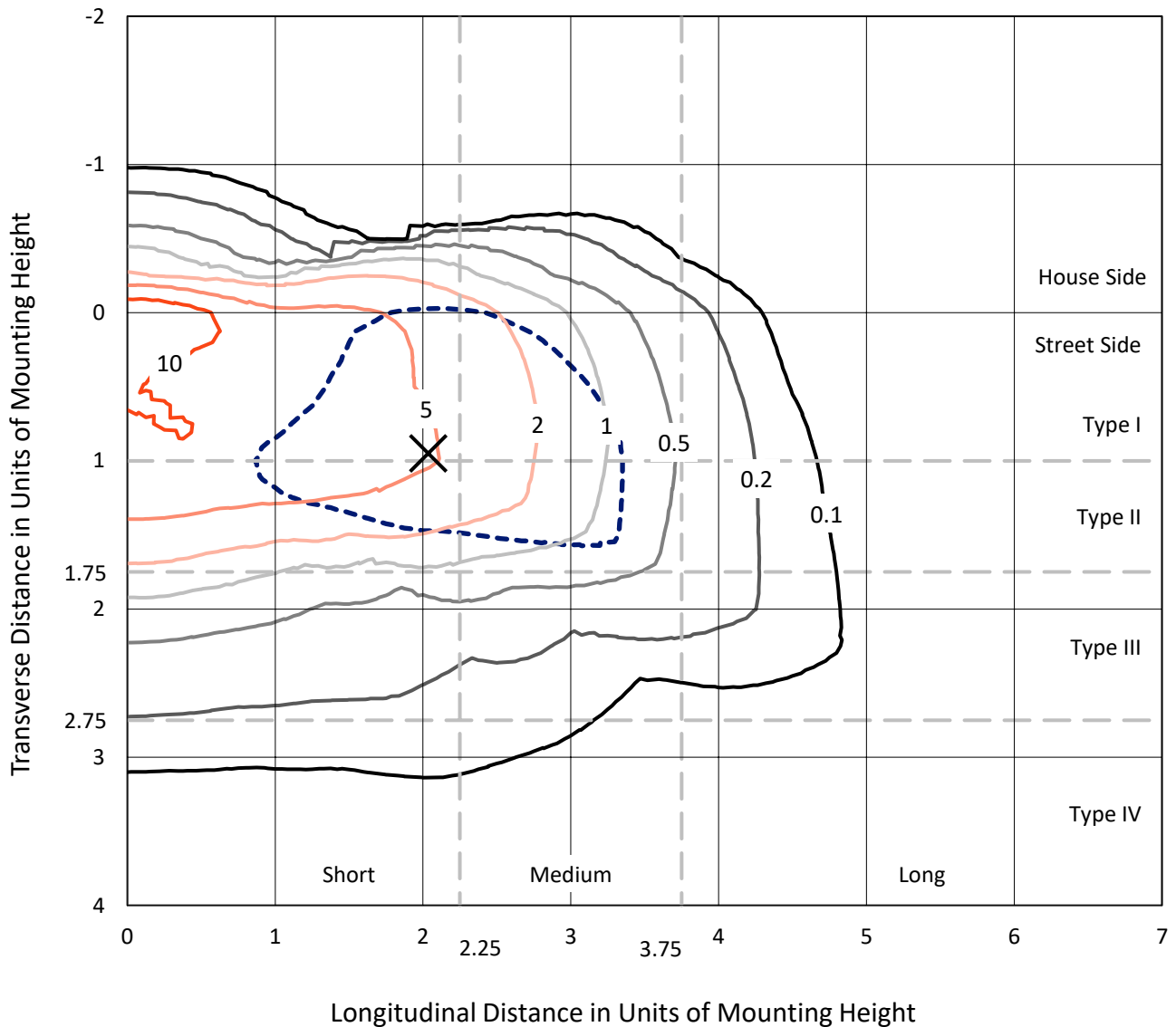
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

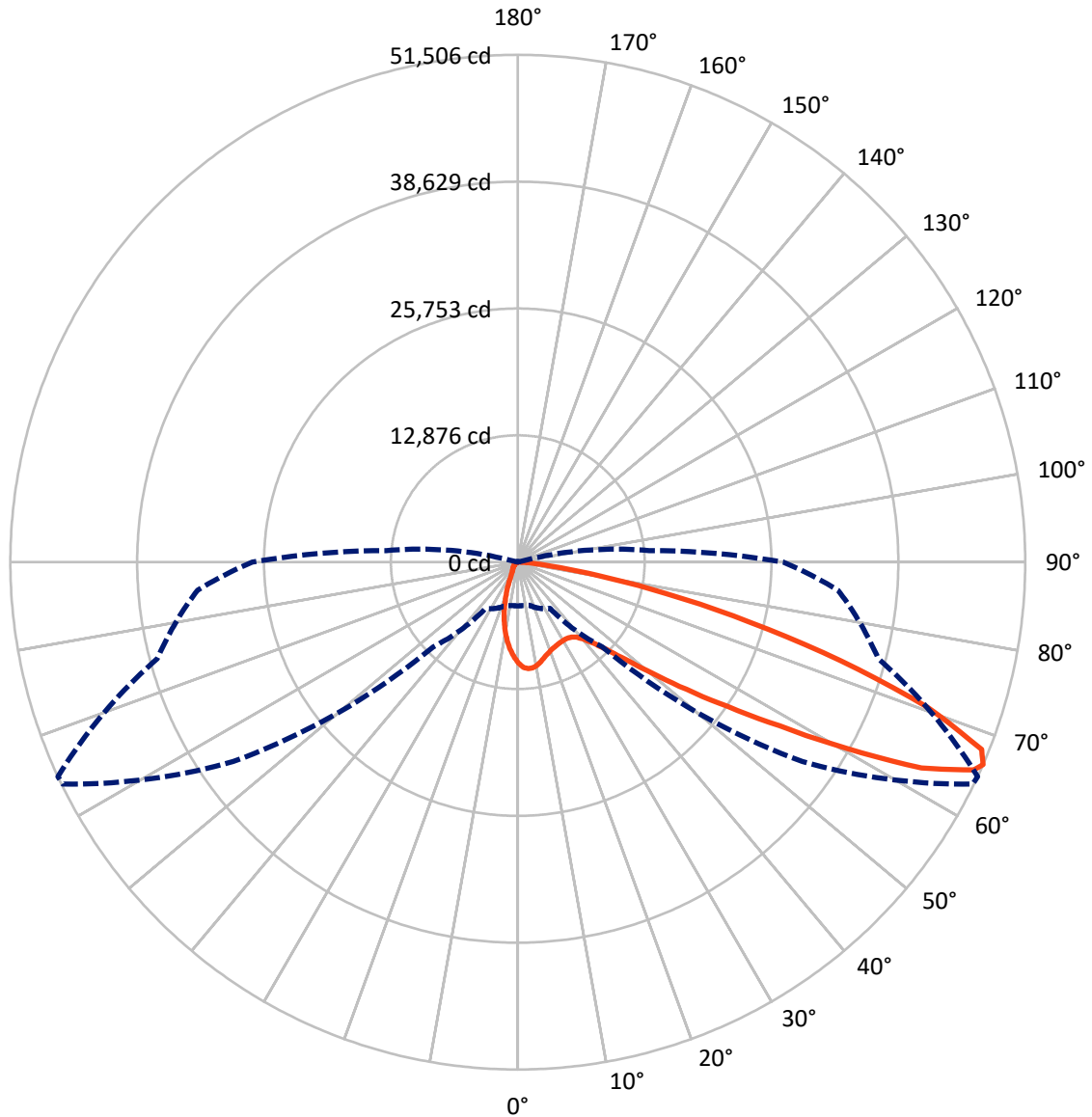
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4476.0	0.0	4476.0
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	38806.0	0.0	38806.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	43282.0	0.0	43282.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.4	1.9
10°-20°	1829.0	4.2
20°-30°	2620.0	6.1
30°-40°	3826.7	8.8
40°-50°	6416.8	14.8
50°-60°	10708.6	24.7
60°-70°	11366.8	26.3
70°-80°	5148.0	11.9
80°-90°	526.7	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°	43282.0	100.0
0°-180°	43282.0	100.0

**Coefficient of Utilization**



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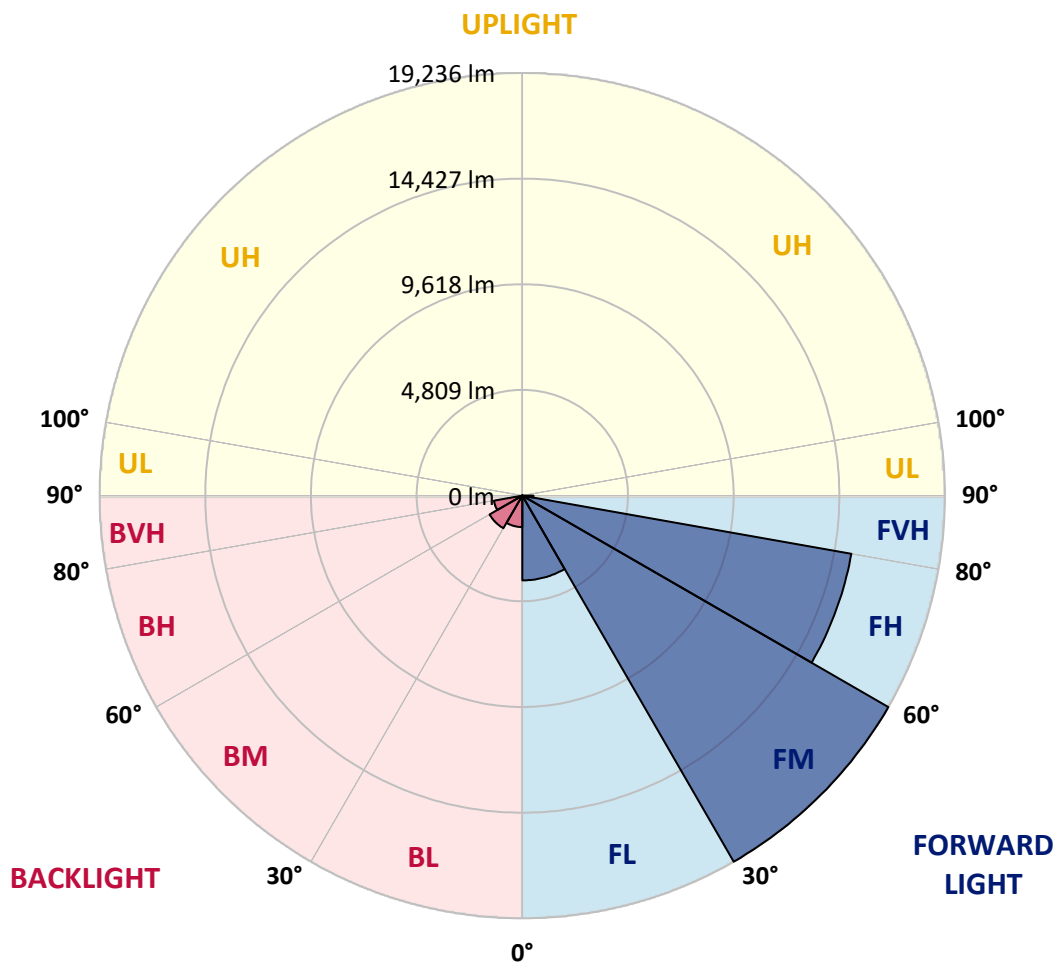
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3856.6	8.9			
FM	(30°-60°)	19235.5	44.4			
FH	(60°-80°)	15204.0	35.1			G5
FVH	(80°-90°)	510.0	1.2			G4/750
BL	(0°-30°)	1431.8	3.3	B3/2500		
BM	(30°-60°)	1716.6	4.0	B2/2500		
BH	(60°-80°)	1310.8	3.0	B3/2500		G3/2500
BVH	(80°-90°)	16.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8
2.5°	10816.3	10828.0	10842.6	10863.0	10877.7	10833.8	10772.4	10702.3	10687.6	10538.6	10357.3
5°	10237.4	10255.0	10383.6	10453.8	10611.6	10754.9	10845.5	10857.2	10851.3	10711.0	10421.6
7.5°	9413.1	9462.8	9588.5	9711.3	10006.5	10278.4	10599.9	10825.0	10839.7	10801.6	10442.1
10°	8743.6	8775.8	8840.1	9082.7	9328.3	9743.4	10193.6	10617.5	10652.6	10804.6	10424.5
12.5°	8220.4	8267.1	8346.1	8533.2	8828.4	9220.1	9731.7	10301.8	10374.8	10749.0	10374.8
15°	7854.9	7878.3	7957.3	8141.4	8427.9	8790.4	9307.8	9971.4	10035.7	10675.9	10366.1
17.5°	7682.5	7708.8	7764.3	7910.5	8147.3	8483.5	8989.2	9705.4	9787.3	10629.2	10398.2
20°	7729.2	7752.6	7755.6	7831.6	7992.3	8275.9	8755.3	9456.9	9562.2	10599.9	10450.9
22.5°	7995.3	7998.2	7963.1	7928.0	7983.6	8188.2	8612.1	9299.1	9407.2	10594.1	10512.2
25°	8392.8	8401.6	8343.1	8220.4	8109.3	8214.5	8579.9	9196.7	9293.2	10579.5	10550.2
27.5°	8942.4	8939.5	8922.0	8717.3	8401.6	8331.4	8606.2	9141.2	9223.1	10538.6	10564.9
30°	9711.3	9687.9	9649.9	9418.9	8936.6	8615.0	8717.3	9106.1	9182.1	10480.1	10526.9
32.5°	10468.4	10556.1	10550.2	10331.0	9728.8	9120.7	8948.3	9152.9	9208.4	10442.1	10471.3
35°	11351.2	11348.3	11573.4	11491.6	10787.0	9766.8	9342.9	9307.8	9351.7	10468.4	10445.0
37.5°	12169.8	12245.8	12596.6	12681.3	12038.2	10678.9	9901.3	9641.1	9655.7	10646.7	10509.3
40°	13190.0	13336.2	13859.4	14143.0	13575.9	12032.4	10725.6	10252.1	10255.0	11085.2	10752.0
42.5°	14505.5	14736.4	15224.6	15698.2	15394.2	13634.3	11962.2	11219.7	11213.8	11857.0	11307.4
45°	16104.5	16265.3	16820.8	17572.0	17379.1	15870.7	13763.0	12719.3	12643.3	13122.8	12292.5
47.5°	17484.3	17703.6	18267.8	19124.3	20001.3	18601.1	15914.5	14780.3	14730.6	15136.9	13982.2
50°	18086.5	18279.5	18872.9	20074.4	22199.7	22185.0	19118.5	17788.4	17703.6	17922.8	16595.7
52.5°	17425.9	17607.1	18206.4	19703.1	23234.5	26552.5	23760.7	21562.4	21460.1	21179.4	19717.8
55°	15163.2	15312.3	16198.1	17917.0	22836.9	29464.1	30156.9	26225.1	25827.5	24737.1	23252.0
57.5°	12073.3	11997.3	12546.9	14543.5	20504.1	30440.5	36722.7	32033.7	31323.3	27812.4	26242.6
60°	8366.5	8600.4	8822.6	10138.1	15417.6	28747.9	40806.6	39336.1	38400.7	30838.0	29107.4
62.5°	6150.7	6305.6	6451.8	7059.8	9693.7	22953.9	41528.6	46837.4	46007.1	34050.8	31840.7
65°	4864.4	4876.1	4934.6	5533.8	6387.4	14926.4	38058.6	51067.4	50854.0	37143.6	32948.7
66°	4431.7	4434.7	4525.3	5168.4	5732.6	12155.1	35278.6	51389.0	51505.9	37886.2	32624.2
67.5°	3873.4	3861.7	3993.2	4645.1	5221.0	8764.1	30303.1	50085.2	50778.0	38456.2	31457.8
70°	3002.2	2987.6	3148.4	3896.8	4808.9	5846.6	20141.6	43004.9	44121.6	37289.8	27832.9
72.5°	1999.5	2011.2	2286.0	3075.3	4589.6	5148.0	12117.1	32714.8	34293.4	30794.2	21895.6
75°	1166.4	1186.9	1499.7	2286.0	3984.5	4908.2	6858.1	23328.1	24336.6	21264.2	13640.2
77.5°	611.0	619.7	839.0	1508.4	3054.9	4557.4	4569.1	14903.1	15376.6	10333.9	5399.4
80°	324.5	315.7	450.2	909.2	2101.9	4002.0	3706.8	7890.0	8202.8	3069.5	1365.2
82.5°	122.8	134.5	239.7	596.4	1242.4	2873.6	3192.3	3487.5	3379.4	675.3	573.0
85°	23.4	29.2	102.3	353.7	625.6	1201.5	2353.3	1710.1	1584.4	254.3	330.3
87.5°	2.9	5.8	29.2	84.8	90.6	406.3	695.7	473.6	409.3	93.5	137.4
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°	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8	10263.8
2.5°	10269.6	10190.7	9927.6	9667.4	9401.4	9161.7	8998.0	8731.9	8664.7	8568.2	8512.7
5°	10249.1	10065.0	9559.2	9006.7	8492.2	7936.8	7512.9	7103.7	6884.4	6773.3	6732.4
7.5°	10190.7	9898.3	9109.0	8243.7	7419.4	6589.2	5867.1	5317.5	4963.8	4721.2	4557.4
10°	10073.7	9670.3	8585.8	7396.0	6150.7	5054.4	4139.4	3443.7	2905.8	2736.2	2742.1
12.5°	9953.9	9416.0	8001.1	6454.7	4911.2	3528.4	2557.9	2008.3	1751.1	1666.3	1648.7
15°	9842.8	9173.4	7428.1	5542.6	3657.1	2286.0	1648.7	1455.8	1385.7	1371.0	1368.1
17.5°	9784.3	8948.3	6817.2	4499.0	2552.1	1552.3	1321.3	1268.7	1248.3	1233.6	1227.8
20°	9734.6	8752.4	6232.5	3522.6	1745.2	1271.6	1183.9	1134.2	1099.2	1084.5	1075.8
22.5°	9699.6	8550.7	5627.4	2727.5	1336.0	1128.4	1049.5	985.2	935.5	917.9	906.2
25°	9646.9	8328.5	5016.4	1993.7	1125.5	1002.7	912.1	836.1	771.8	739.6	733.8
27.5°	9570.9	8077.1	4347.0	1476.3	1005.6	891.6	780.5	687.0	622.7	587.6	590.5
30°	9448.2	7814.0	3677.5	1172.2	909.2	777.6	657.7	567.1	505.7	479.4	476.5
32.5°	9302.0	7495.4	3063.6	1005.6	821.5	675.3	549.6	470.7	423.9	403.4	400.5
35°	9164.6	7173.8	2438.0	903.3	730.8	581.7	461.9	394.6	359.6	342.0	345.0
37.5°	9088.6	6887.3	1900.2	821.5	657.7	499.9	397.6	339.1	306.9	292.3	289.4
40°	9138.3	6653.5	1511.4	748.4	575.9	429.7	342.0	292.3	260.2	239.7	239.7
42.5°	9372.1	6551.1	1219.0	678.2	499.9	371.3	298.2	251.4	216.3	195.9	198.8
45°	10085.4	6659.3	1020.2	613.9	429.7	321.6	257.3	207.6	175.4	160.8	157.9
47.5°	11269.4	7065.7	882.8	546.7	368.3	274.8	216.3	172.5	140.3	128.6	125.7
50°	13339.1	7904.6	780.5	479.4	312.8	233.9	178.3	137.4	111.1	99.4	99.4
52.5°	16186.4	9734.6	707.4	403.4	263.1	198.8	146.2	111.1	87.7	78.9	76.0
55°	19162.3	11664.0	669.4	339.1	219.2	163.7	116.9	87.7	67.2	58.5	55.5
57.5°	22024.3	13178.3	625.6	274.8	175.4	125.7	90.6	67.2	46.8	40.9	38.0
60°	24769.2	14403.2	532.0	219.2	137.4	90.6	67.2	46.8	32.2	26.3	26.3
62.5°	27224.8	15116.5	418.0	175.4	105.2	64.3	43.8	35.1	23.4	17.5	17.5
65°	27511.3	14189.8	315.7	134.5	76.0	40.9	26.3	26.3	17.5	11.7	11.7
66°	26935.4	13403.4	277.7	122.8	67.2	35.1	23.4	20.5	14.6	8.8	8.8
67.5°	25649.2	12061.6	239.7	105.2	55.5	26.3	17.5	17.5	11.7	5.8	5.8
70°	22161.6	9851.6	190.0	78.9	40.9	20.5	11.7	11.7	8.8	5.8	5.8
72.5°	16890.9	7355.1	154.9	58.5	29.2	14.6	8.8	8.8	8.8	5.8	5.8
75°	10187.8	3961.1	119.9	43.8	26.3	11.7	5.8	8.8	11.7	8.8	5.8
77.5°	3753.5	1347.6	93.5	35.1	20.5	11.7	5.8	5.8	11.7	8.8	8.8
80°	920.8	350.8	67.2	29.2	20.5	11.7	5.8	5.8	11.7	11.7	11.7
82.5°	426.8	149.1	46.8	26.3	20.5	11.7	5.8	5.8	8.8	11.7	11.7
85°	245.6	70.2	38.0	29.2	20.5	11.7	5.8	5.8	8.8	11.7	11.7
87.5°	99.4	35.1	35.1	29.2	23.4	14.6	5.8	5.8	5.8	8.8	8.8
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)