

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: P458679

Luminaire Tested: **GALN-SA2B-735-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7826 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

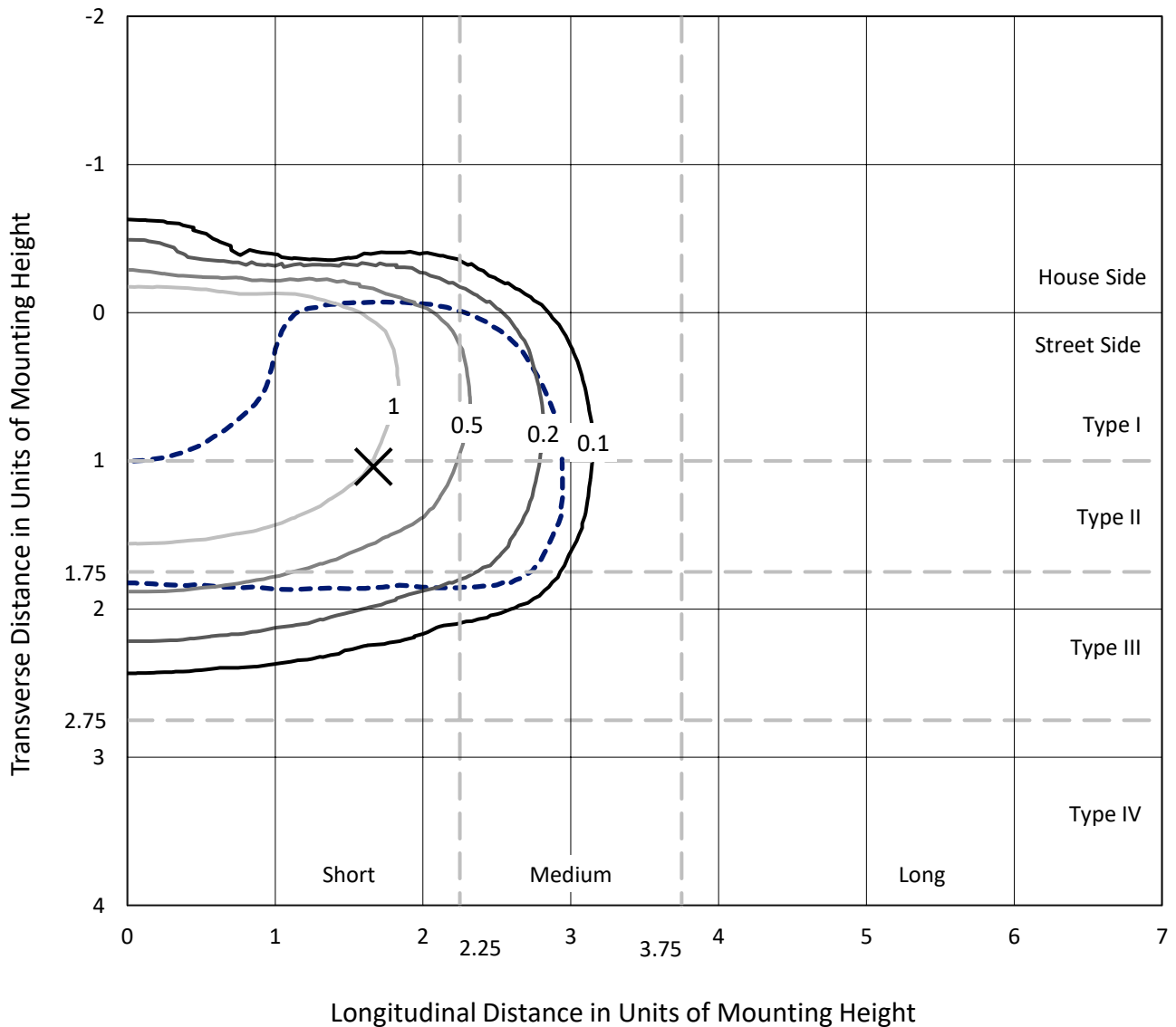
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

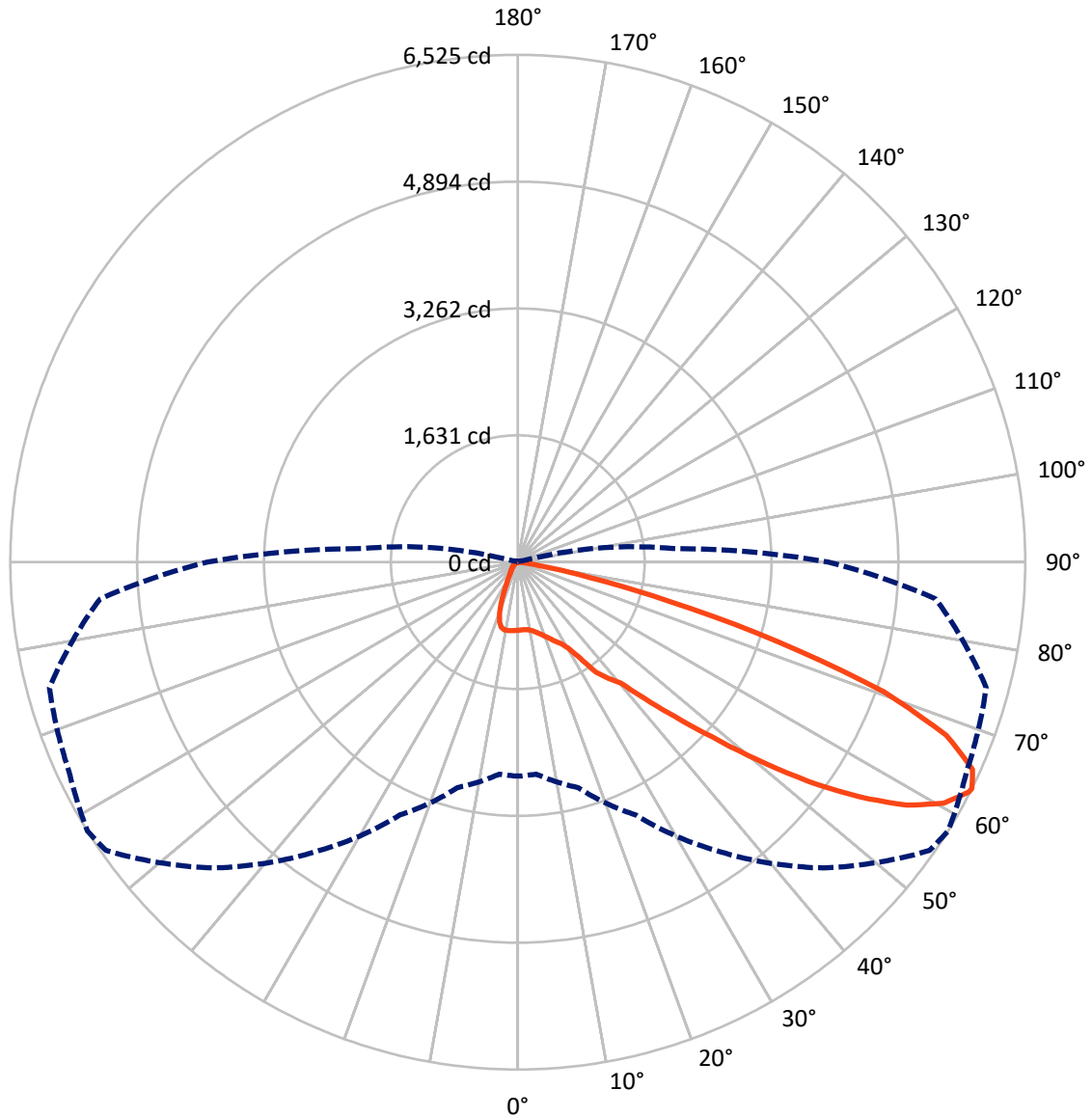
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	810.3	0.0	810.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	7015.7	0.0	7015.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	7826.0	0.0	7826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	1.0
10°-20°	223.4	2.9
20°-30°	387.7	5.0
30°-40°	712.5	9.1
40°-50°	1341.2	17.1
50°-60°	2294.0	29.3
60°-70°	2196.5	28.1
70°-80°	560.1	7.2
80°-90°	28.6	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°	7826.0	100.0
0°-180°	7826.0	100.0

**Coefficient of Utilization**



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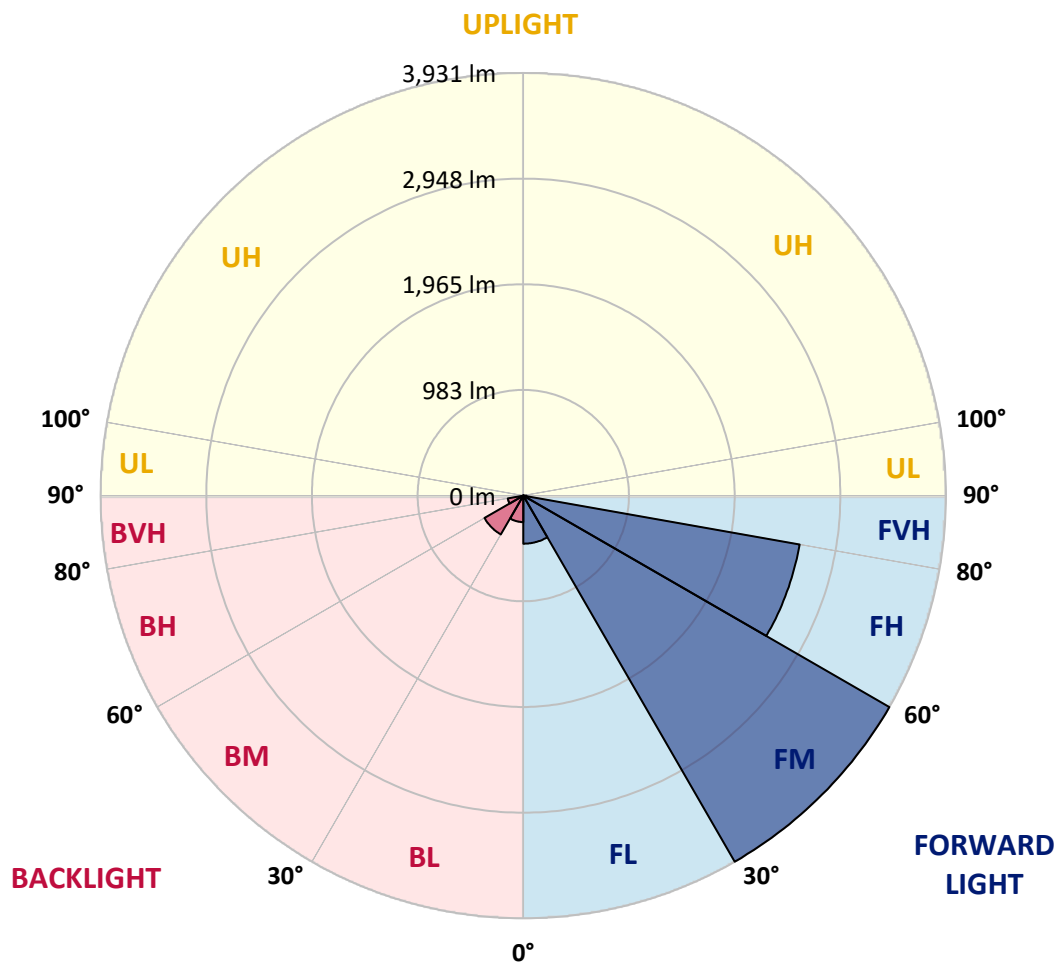
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.4	5.7			
FM (30°-60°)	3930.8	50.2			
FH (60°-80°)	2609.9	33.3			G2/5000
FVH (80°-90°)	27.5	0.4			G1/100
BL (0°-30°)	245.7	3.1	B1/500		
BM (30°-60°)	416.8	5.3	B1/1000		
BH (60°-80°)	146.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2
2.5°	854.4	857.3	860.2	861.4	865.5	869.7	872.6	872.0	876.7	879.1	879.1
5°	820.2	820.2	827.8	834.9	846.7	858.5	869.7	872.0	880.9	889.1	892.1
7.5°	791.3	793.1	799.0	811.9	827.8	848.5	870.8	876.2	891.5	909.7	917.4
10°	777.8	778.9	786.6	800.1	820.2	848.5	879.7	889.7	913.3	942.1	952.7
12.5°	774.8	776.6	784.2	799.6	822.5	856.7	899.1	909.7	943.9	981.0	996.9
15°	780.1	781.3	788.9	805.4	830.8	871.4	925.1	939.8	980.4	1023.5	1044.1
17.5°	799.0	797.8	803.1	816.6	844.9	889.7	956.3	974.0	1021.7	1080.6	1094.2
20°	879.1	871.4	866.7	854.9	866.1	915.6	994.0	1019.9	1078.8	1138.9	1148.4
22.5°	1051.7	1034.6	1001.1	955.1	919.8	951.0	1039.4	1069.4	1145.4	1204.3	1204.3
25°	1271.5	1249.7	1216.1	1116.0	1029.3	1009.3	1090.6	1128.3	1217.9	1277.4	1258.0
27.5°	1546.7	1529.6	1464.2	1347.5	1214.9	1111.2	1150.1	1184.9	1282.1	1354.0	1313.3
30°	1770.6	1762.3	1708.7	1604.4	1458.3	1306.9	1260.9	1283.9	1367.5	1450.6	1408.8
32.5°	1959.7	1959.7	1904.9	1807.7	1671.0	1536.7	1448.9	1465.4	1545.5	1641.5	1563.8
35°	2167.7	2160.6	2116.4	2023.9	1870.7	1752.3	1716.4	1738.8	1811.2	1882.5	1691.0
37.5°	2386.3	2383.9	2338.0	2248.4	2123.5	1974.4	1890.2	1896.1	1933.2	1976.8	1840.1
40°	2623.7	2627.3	2567.2	2511.8	2393.9	2241.3	2079.9	2042.8	2077.5	2200.7	2115.3
42.5°	2904.2	2896.0	2870.0	2794.6	2699.7	2608.4	2414.6	2401.0	2431.7	2563.6	2471.1
45°	3230.0	3241.8	3197.0	3155.2	3091.6	3015.6	2853.5	2830.0	2863.5	3068.6	2937.2
47.5°	3556.5	3545.3	3574.1	3566.5	3600.6	3544.1	3400.9	3352.6	3433.3	3627.7	3434.5
50°	3805.1	3817.5	3877.6	3965.4	4112.1	4143.9	4006.6	3990.1	4026.1	4151.0	3879.3
52.5°	3966.5	4007.8	4102.1	4327.7	4592.3	4797.9	4693.6	4684.8	4670.1	4703.6	4304.7
55°	4072.0	4113.8	4237.0	4569.3	5024.8	5358.8	5364.1	5326.4	5229.2	5205.1	4702.5
57.5°	4007.2	4015.4	4191.0	4635.3	5264.6	5758.9	5932.1	5894.4	5714.7	5623.4	5053.6
60°	3601.8	3618.9	3863.4	4385.5	5160.3	5889.7	6308.6	6291.6	6094.8	5991.6	5327.0
62.5°	2883.6	2933.1	3184.7	3766.8	4675.4	5669.4	6461.2	6509.6	6356.4	6214.4	5413.0
63°	2751.6	2735.7	3001.4	3586.5	4546.9	5560.3	6463.6	6524.9	6368.2	6235.6	5389.5
65°	2036.9	2084.6	2257.3	2828.2	3783.9	5053.0	6318.1	6426.5	6324.5	6141.9	5128.5
67.5°	1143.7	1141.3	1332.2	1850.7	2648.5	3963.6	5713.0	5942.2	5920.9	5511.4	4251.1
70°	559.7	568.6	646.9	959.2	1536.1	2734.5	4747.2	4994.7	5002.4	4328.9	2939.6
72.5°	253.4	257.5	313.5	467.2	789.5	1455.9	3271.3	3507.5	3463.9	2758.7	1623.3
75°	133.8	142.6	172.6	235.1	380.6	600.4	1779.4	2008.0	1916.7	1260.3	597.5
77.5°	99.0	101.9	117.3	149.7	203.9	233.9	767.7	913.3	855.5	456.0	198.0
80°	72.5	74.8	87.2	106.1	128.4	119.0	289.3	331.7	297.5	155.0	60.7
82.5°	44.2	44.8	63.6	79.0	80.7	66.6	95.5	102.5	107.2	87.2	33.0
85°	15.9	20.0	43.0	57.2	47.7	33.6	40.1	44.2	48.3	55.4	19.4
87.5°	1.8	2.4	20.6	27.7	13.6	12.4	14.7	16.5	17.7	20.6	9.4
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°	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2	876.2
2.5°	881.5	883.8	882.0	879.1	878.5	876.7	873.2	873.2	873.2	874.4	873.2
5°	894.4	896.2	892.1	886.2	879.7	871.4	862.6	857.3	856.7	855.5	852.6
7.5°	919.2	921.5	912.1	898.0	880.3	860.2	841.4	823.7	815.5	809.0	809.0
10°	955.1	957.5	938.6	913.3	877.9	837.3	792.5	751.8	720.0	705.3	701.7
12.5°	998.1	999.3	968.1	923.9	865.5	787.2	691.7	602.8	540.9	512.6	509.7
15°	1045.3	1037.0	995.8	928.0	830.2	684.1	519.1	410.1	345.9	327.0	334.1
17.5°	1093.0	1077.7	1017.0	921.5	750.6	519.1	348.8	279.9	259.8	254.5	254.5
20°	1137.8	1116.5	1032.3	893.2	612.8	357.6	258.7	242.2	238.6	235.1	235.7
22.5°	1182.5	1150.1	1045.8	830.2	456.6	255.7	231.6	226.3	221.5	216.8	216.2
25°	1226.1	1181.4	1051.1	713.5	311.1	219.8	211.5	204.5	195.0	189.7	188.5
27.5°	1271.5	1219.1	1047.6	566.2	226.8	196.8	188.5	178.5	167.3	157.9	157.9
30°	1358.7	1291.0	1035.2	407.1	190.9	173.2	162.6	146.7	134.3	124.9	124.3
32.5°	1477.7	1384.6	992.8	286.4	169.7	152.6	136.7	119.0	106.1	99.0	99.0
35°	1583.8	1478.9	913.3	210.9	152.6	132.6	113.1	96.0	86.0	81.3	79.5
37.5°	1745.2	1616.8	803.7	171.5	136.1	114.9	94.9	79.0	70.7	67.2	67.2
40°	1987.4	1785.3	669.3	150.2	120.2	97.8	79.0	66.6	60.1	56.0	56.0
42.5°	2287.9	1991.5	533.2	134.9	105.5	84.3	66.0	56.6	50.7	47.7	47.1
45°	2666.2	2208.9	410.7	120.8	93.7	71.9	56.0	47.7	41.8	40.1	40.7
47.5°	3060.9	2400.4	318.2	108.4	81.3	60.7	47.7	41.2	37.1	34.8	34.8
50°	3398.0	2532.4	241.6	94.3	71.9	51.3	41.8	37.1	33.6	32.4	31.8
52.5°	3679.6	2570.7	185.0	81.9	63.0	44.2	37.1	33.6	30.6	28.9	28.9
55°	3919.4	2537.1	144.9	68.9	53.0	38.3	33.0	30.0	26.5	24.7	24.2
57.5°	4059.6	2429.3	110.8	57.2	43.0	31.8	28.9	25.3	21.2	18.3	18.3
60°	4130.3	2272.6	84.8	47.1	33.0	25.3	23.6	18.9	14.7	12.4	11.8
62.5°	4045.5	2064.6	64.2	37.1	24.7	18.9	15.9	13.6	9.4	7.1	7.1
63°	3993.1	2004.5	61.9	35.4	23.0	17.7	14.7	12.4	8.2	6.5	5.9
65°	3640.1	1742.3	50.7	28.3	18.3	12.4	10.0	8.8	5.9	2.9	2.4
67.5°	2890.7	1332.8	40.1	21.2	13.0	8.8	5.9	5.3	1.8	0.0	0.0
70°	1954.4	860.8	31.2	15.3	8.8	5.3	2.9	2.4	0.6	0.0	0.0
72.5°	1019.3	441.3	24.2	11.2	5.3	3.5	1.8	0.6	0.0	0.0	0.0
75°	360.6	150.2	17.7	7.1	3.5	1.8	0.6	0.0	0.0	0.0	0.0
77.5°	109.0	56.0	11.2	5.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0
80°	38.3	20.6	6.5	3.5	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.9	10.0	4.1	2.9	1.8	0.6	0.0	0.0	0.0	0.0	0.0
85°	10.6	6.5	3.5	2.9	1.8	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	4.7	3.5	2.9	2.4	1.2	0.6	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)