

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: P532559

Luminaire Tested: **GALN-SA7D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-830-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25569 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

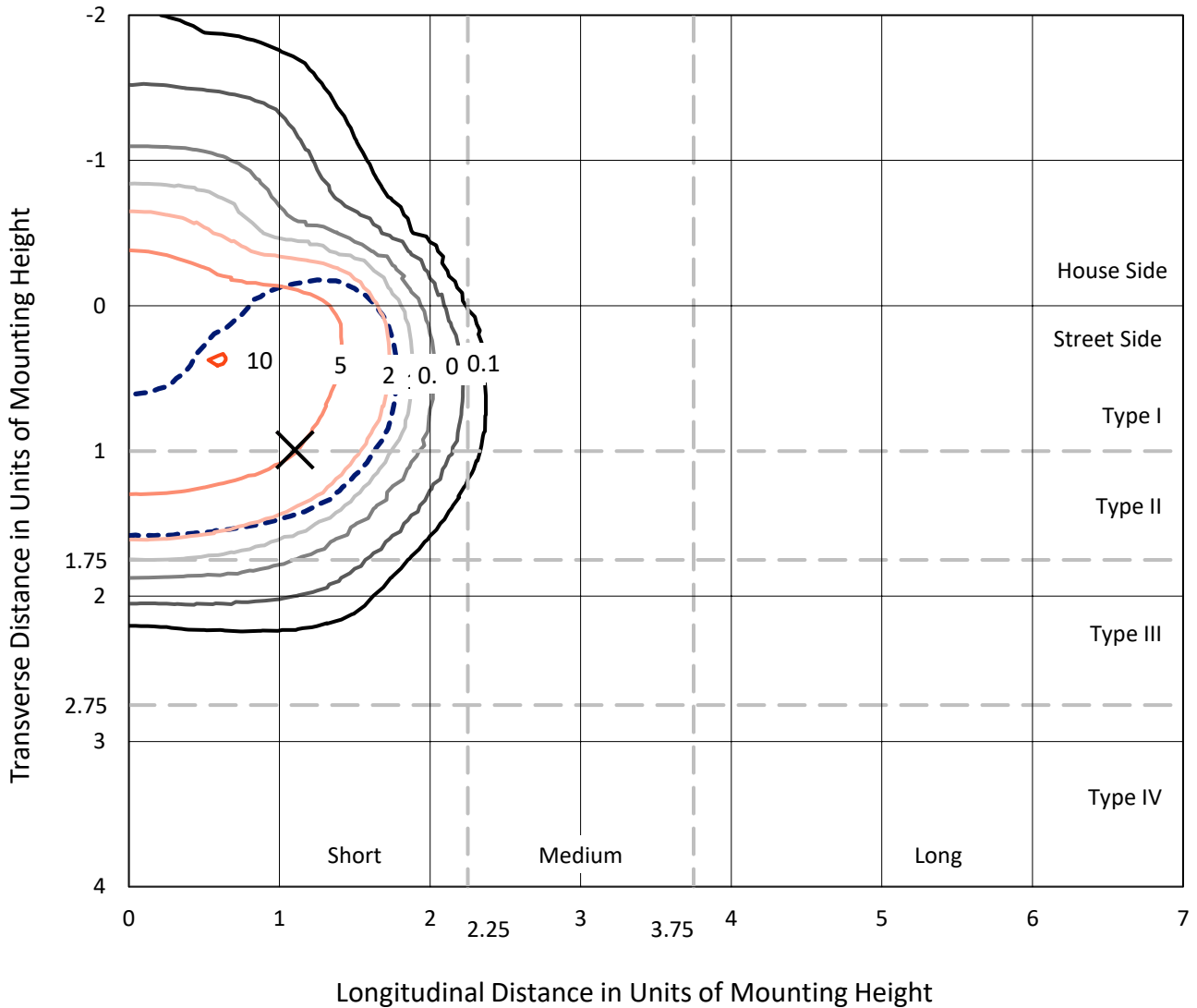
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

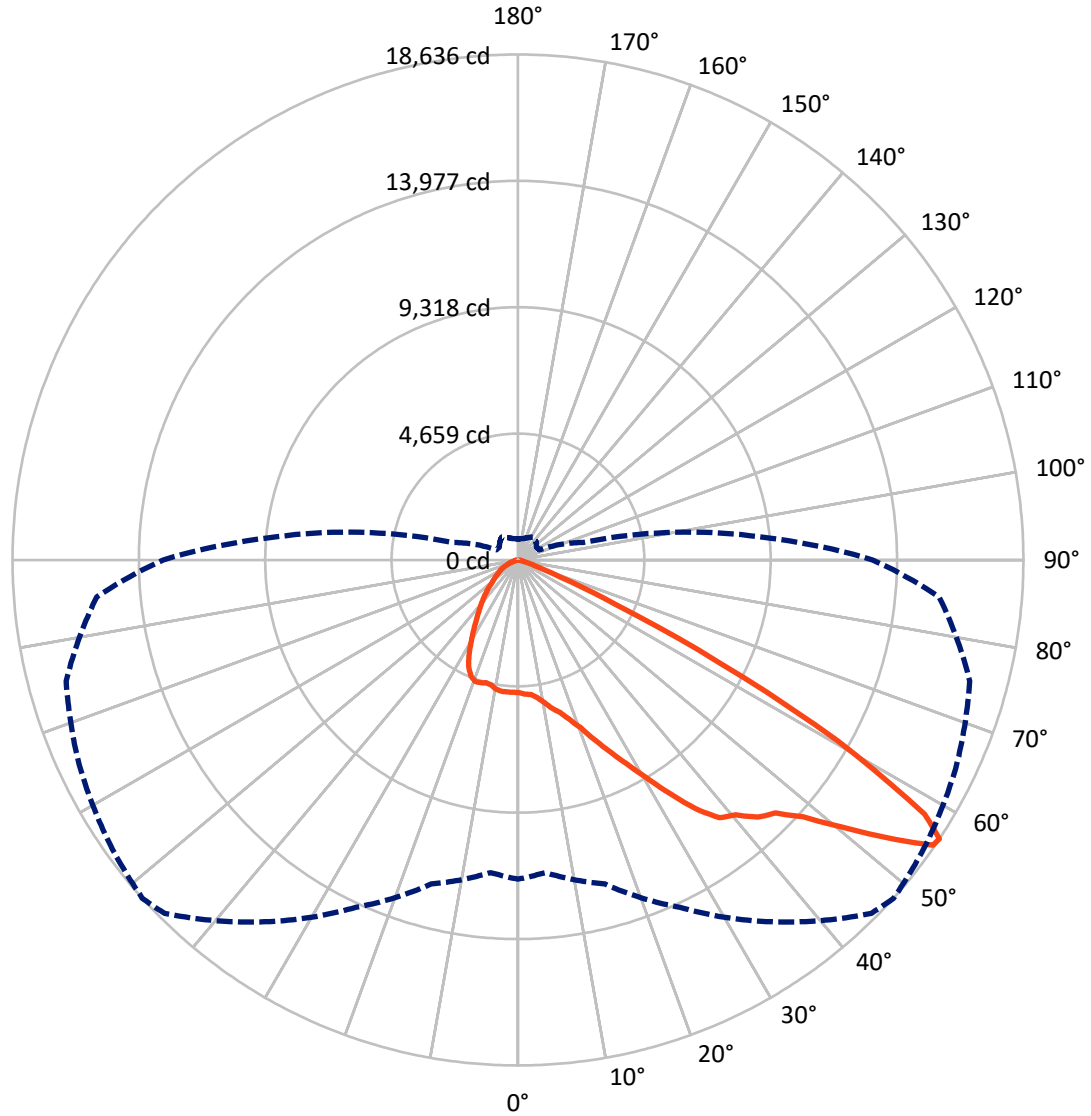
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5560.8	0.0	5560.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	20008.2	0.0	20008.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	25569.0	0.0	25569.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.7	1.9
10°-20°	1520.3	5.9
20°-30°	2757.6	10.8
30°-40°	4331.6	16.9
40°-50°	6319.0	24.7
50°-60°	7613.2	29.8
60°-70°	2229.1	8.7
70°-80°	282.8	1.1
80°-90°	39.7	0.2
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°	25569.0	100.0
0°-180°	25569.0	100.0

**Coefficient of Utilization**

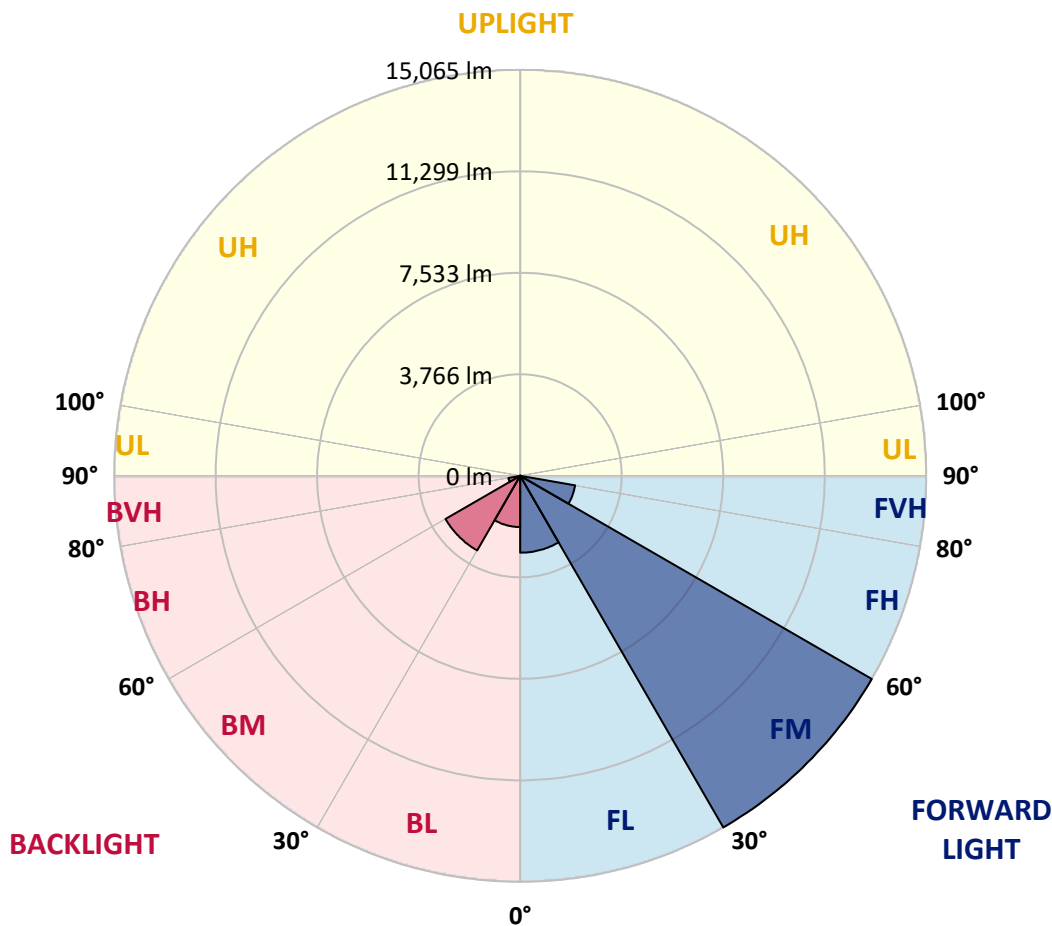


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2853.0	11.2			
FM (30°-60°)	15065.3	58.9			
FH (60°-80°)	2070.0	8.1			G2/5000
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	1900.6	7.4	B3/2500		
BM (30°-60°)	3198.5	12.5	B3/5000		
BH (60°-80°)	441.8	1.7	B1/500		G1/500
BVH (80°-90°)	19.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7
2.5°	4972.1	4948.9	4948.9	4911.6	4953.5	4934.9	4948.9	4902.3	4948.9	4879.0	4934.9
5°	4995.4	5000.1	4981.5	5004.7	5004.7	5032.7	4986.1	5028.0	5051.3	5000.1	4976.8
7.5°	5116.5	5125.8	5121.1	5102.5	5139.7	5135.1	5130.4	5097.8	5107.2	5088.5	5060.6
10°	5353.9	5349.2	5372.5	5326.0	5298.0	5330.6	5339.9	5288.7	5251.5	5237.5	5149.1
12.5°	5698.4	5642.5	5610.0	5563.4	5577.4	5530.8	5614.6	5526.2	5507.5	5423.7	5335.3
15°	5977.7	5968.4	5973.1	5898.6	5814.8	5833.4	5833.4	5786.9	5758.9	5656.5	5530.8
17.5°	6550.4	6354.8	6396.7	6303.6	6233.8	6229.1	6187.2	6196.6	6122.1	5907.9	5717.0
20°	6997.3	6913.5	6848.3	6690.1	6583.0	6615.6	6596.9	6550.4	6527.1	6247.8	5977.7
22.5°	7397.7	7425.6	7318.6	7276.7	7127.7	7141.6	7178.9	7137.0	6960.1	6671.4	6271.0
25°	7961.0	7928.4	7784.1	7732.9	7593.2	7644.4	7788.8	7756.2	7644.4	7123.0	6499.2
27.5°	8626.8	8515.0	8543.0	8310.2	8175.2	8319.5	8491.8	8654.7	8338.1	7653.8	6769.2
30°	9097.0	8980.6	8971.3	8962.0	8929.4	9097.0	9297.2	9446.1	9190.1	8184.5	7216.1
32.5°	9329.8	9357.7	9436.8	9408.9	9692.9	10037.4	10246.9	10461.1	10139.8	9050.4	7807.4
35°	9948.9	9772.0	9948.9	9967.6	10260.9	10991.8	11257.2	11769.3	11690.1	10274.8	8529.0
37.5°	10312.1	10298.1	10321.4	10498.3	10782.3	11685.5	12062.6	12458.3	12309.3	11010.4	9427.5
40°	10912.6	10949.9	10945.2	11080.3	11392.2	12206.9	12360.5	12681.8	12695.7	12030.0	10749.7
42.5°	11876.4	11727.4	11629.6	11769.3	12206.9	12658.5	12965.8	12900.6	13361.5	13268.4	12449.0
45°	12742.3	12830.7	12686.4	12919.2	13077.5	13319.6	13310.3	13449.9	14036.5	14478.8	13729.3
47.5°	13552.4	13608.2	13678.1	13836.3	14180.9	14218.1	14139.0	14078.4	14888.5	15344.7	14720.9
50°	14036.5	14087.7	14413.6	14697.6	15340.1	15423.9	15470.5	15316.8	15866.2	15917.4	15656.7
52.5°	13906.2	13962.0	14418.3	15354.1	16378.3	17146.5	17006.8	16746.1	16713.5	16913.7	16522.6
55°	12751.6	12700.4	13328.9	14786.1	16704.2	18547.8	18566.4	18291.7	17765.6	17630.6	16392.3
56°	11769.3	11569.1	12369.8	14129.6	16285.2	18426.7	18636.2	18342.9	17849.4	17244.2	15586.8
57.5°	9641.7	9832.6	10628.7	12085.9	14837.3	17556.1	17677.2	17607.4	17234.9	16220.0	13715.3
60°	5316.7	5651.9	6354.8	8137.9	10563.5	13473.2	13571.0	14139.0	14208.8	12421.1	9436.8
62.5°	2258.0	2220.7	2951.6	4264.5	6015.0	8133.3	8314.8	8896.8	9003.9	7160.3	4734.7
65°	917.1	968.4	1336.1	2146.2	3179.8	3705.8	3961.9	4152.8	4506.6	2956.3	1745.8
67.5°	605.2	600.6	786.8	1224.4	1713.2	1652.7	1652.7	1745.8	1615.5	1205.8	754.2
70°	433.0	446.9	563.3	847.3	1066.1	791.4	758.9	726.3	824.0	796.1	609.9
72.5°	284.0	302.6	377.1	507.5	554.0	433.0	433.0	521.4	679.7	642.5	498.1
75°	186.2	190.9	232.8	293.3	274.7	223.5	246.7	349.2	493.5	474.9	353.8
77.5°	125.7	130.4	158.3	190.9	153.6	125.7	135.0	176.9	242.1	242.1	186.2
80°	46.6	51.2	65.2	60.5	69.8	88.5	97.8	121.0	144.3	144.3	125.7
82.5°	0.0	4.7	14.0	32.6	51.2	69.8	79.1	93.1	107.1	121.0	116.4
85°	0.0	4.7	14.0	23.3	37.2	41.9	46.6	32.6	27.9	27.9	23.3
87.5°	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.3	4.7	4.7
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°	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7
2.5°	4883.7	4879.0	4879.0	4865.1	4893.0	4879.0	4888.3	4883.7	4823.2	4869.7	4837.1
5°	4934.9	4967.5	4916.3	4907.0	4869.7	4883.7	4883.7	4837.1	4879.0	4874.4	4865.1
7.5°	5065.3	5009.4	4953.5	4897.7	4888.3	4874.4	4823.2	4804.5	4837.1	4799.9	4855.8
10°	5121.1	5130.4	5046.6	4972.1	4902.3	4804.5	4734.7	4692.8	4641.6	4697.5	4730.1
12.5°	5377.2	5284.1	5139.7	5023.4	4785.9	4688.2	4618.3	4599.7	4688.2	4706.8	4674.2
15°	5465.6	5451.7	5265.4	5004.7	4758.0	4641.6	4655.6	4618.3	4627.6	4581.1	4590.4
17.5°	5647.2	5488.9	5270.1	4944.2	4753.3	4725.4	4641.6	4492.6	4408.8	4371.6	4404.2
20°	5847.4	5693.8	5377.2	4967.5	4795.2	4720.7	4446.1	4264.5	4092.2	3999.1	4003.8
22.5°	6024.3	5833.4	5330.6	4976.8	4832.5	4525.2	4194.7	3836.2	3622.0	3477.7	3482.4
25°	6238.5	5968.4	5349.2	4995.4	4734.7	4213.3	3738.4	3389.3	3133.2	3035.4	3068.0
27.5°	6359.5	6052.2	5451.7	5037.3	4478.7	3771.0	3258.9	2933.0	2784.0	2737.5	2732.8
30°	6722.6	6238.5	5577.4	4953.5	4050.3	3296.1	2821.3	2621.1	2476.8	2434.9	2444.2
32.5°	7262.7	6578.3	5740.3	4734.7	3612.7	2872.5	2537.3	2388.3	2253.3	2174.1	2164.8
35°	7714.3	7160.3	5912.6	4394.9	3105.3	2546.6	2337.1	2150.9	1946.0	1857.6	1834.3
37.5°	8575.6	7816.7	5875.3	3882.7	2621.1	2304.5	2122.9	1894.8	1717.9	1596.9	1582.9
40°	9720.8	8584.9	5693.8	3258.9	2262.6	2090.3	1894.8	1676.0	1457.2	1354.8	1345.5
42.5°	11112.8	9525.3	5363.2	2625.7	1904.1	1876.2	1699.3	1447.9	1252.3	1177.9	1182.5
45°	12244.1	10330.7	5028.0	2109.0	1638.8	1666.7	1513.1	1275.6	1140.6	1080.1	1080.1
47.5°	13249.7	10875.4	4664.9	1741.2	1392.0	1457.2	1322.2	1182.5	1066.1	1019.6	1010.3
50°	14218.1	11429.4	4301.7	1410.6	1187.2	1252.3	1238.4	1126.6	1033.5	977.7	982.3
52.5°	14823.3	11517.9	3840.8	1154.6	1038.2	1112.7	1159.2	1056.8	954.4	921.8	912.5
55°	14083.1	10377.3	2979.6	949.7	879.9	977.7	1066.1	949.7	870.6	814.7	810.1
56°	13086.8	9278.5	2490.7	875.2	833.3	940.4	1033.5	907.8	819.4	786.8	763.5
57.5°	11080.3	7593.2	1838.9	777.5	772.8	875.2	982.3	865.9	763.5	735.6	735.6
60°	6908.9	4273.8	1112.7	651.8	670.4	777.5	884.6	772.8	679.7	679.7	693.7
62.5°	3147.2	1778.4	675.1	554.0	577.3	670.4	786.8	698.3	647.1	698.3	707.6
65°	1070.8	768.2	488.8	442.3	456.2	554.0	675.1	707.6	703.0	735.6	754.2
67.5°	600.6	493.5	409.7	367.8	358.5	409.7	554.0	707.6	679.7	665.7	675.1
70°	507.5	419.0	363.1	325.9	311.9	330.5	428.3	535.4	479.5	465.6	456.2
72.5°	409.7	349.2	316.6	293.3	251.4	214.2	195.5	204.8	228.1	242.1	265.4
75°	288.6	265.4	265.4	237.4	181.6	135.0	107.1	88.5	60.5	41.9	46.6
77.5°	162.9	162.9	167.6	144.3	116.4	88.5	65.2	46.6	23.3	9.3	4.7
80°	111.7	121.0	130.4	116.4	97.8	79.1	55.9	32.6	14.0	0.0	0.0
82.5°	111.7	125.7	135.0	116.4	97.8	74.5	55.9	32.6	14.0	4.7	0.0
85°	23.3	27.9	32.6	37.2	55.9	55.9	41.9	27.9	14.0	4.7	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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)