

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: P456705

Luminaire Tested: **GALN-SA8A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24726 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

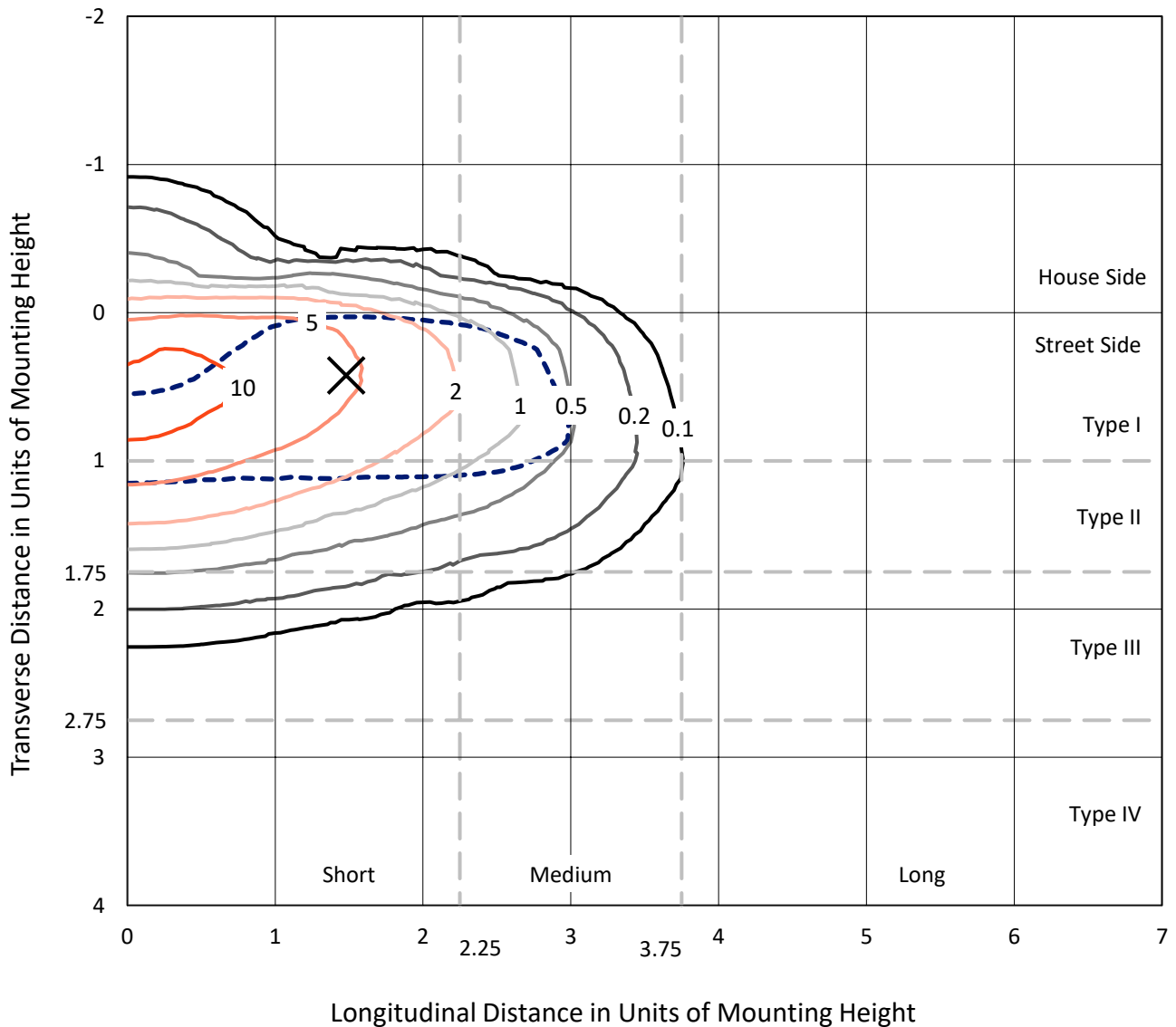
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

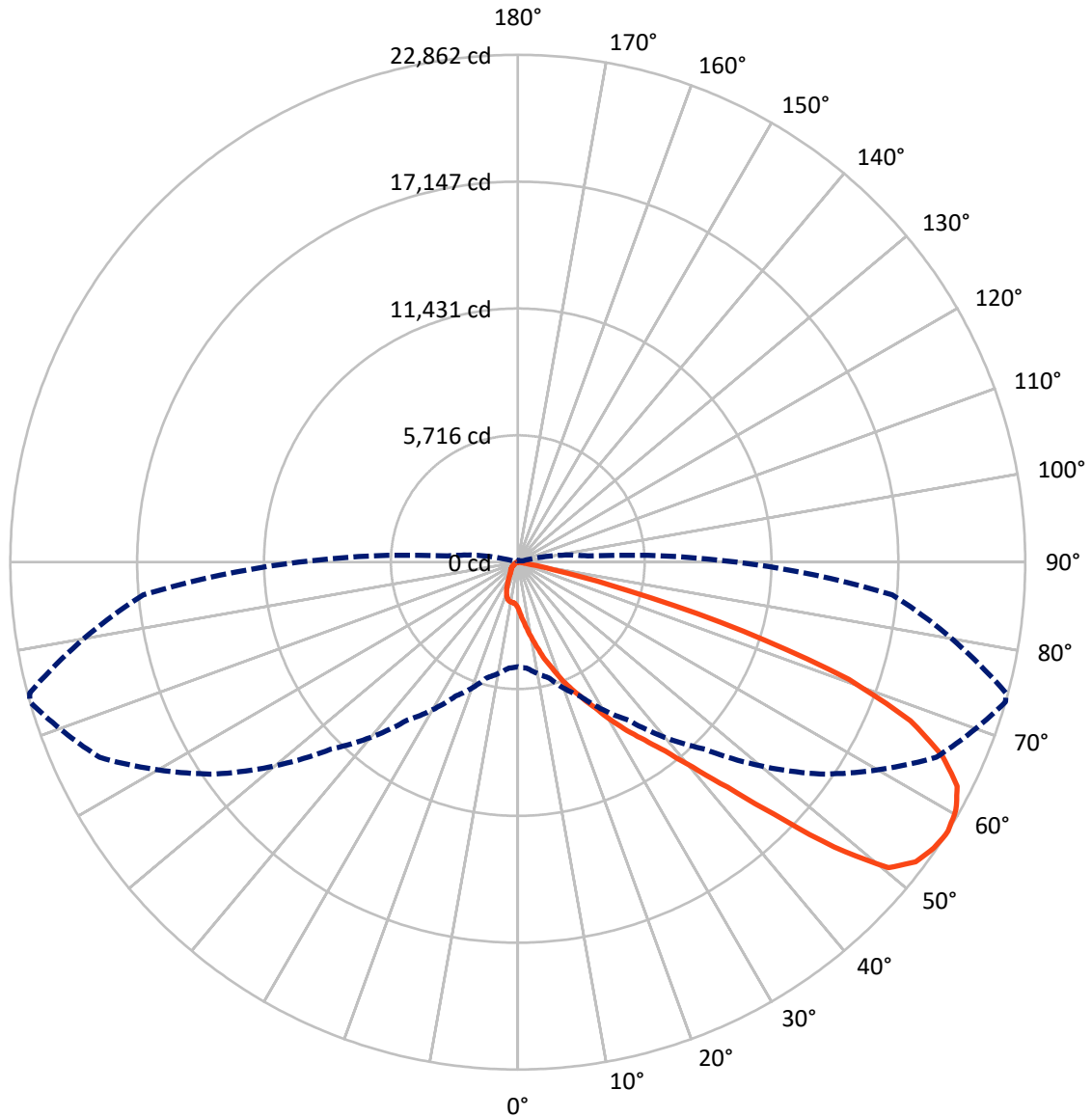
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.1	0.0	1426.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	23299.9	0.0	23299.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	24726.0	0.0	24726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.0
10°-20°	985.2	4.0
20°-30°	2108.1	8.5
30°-40°	3874.6	15.7
40°-50°	5939.8	24.0
50°-60°	6283.5	25.4
60°-70°	4103.3	16.6
70°-80°	1121.2	4.5
80°-90°	60.4	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°	24726.0	100.0
0°-180°	24726.0	100.0

Coefficient of Utilization



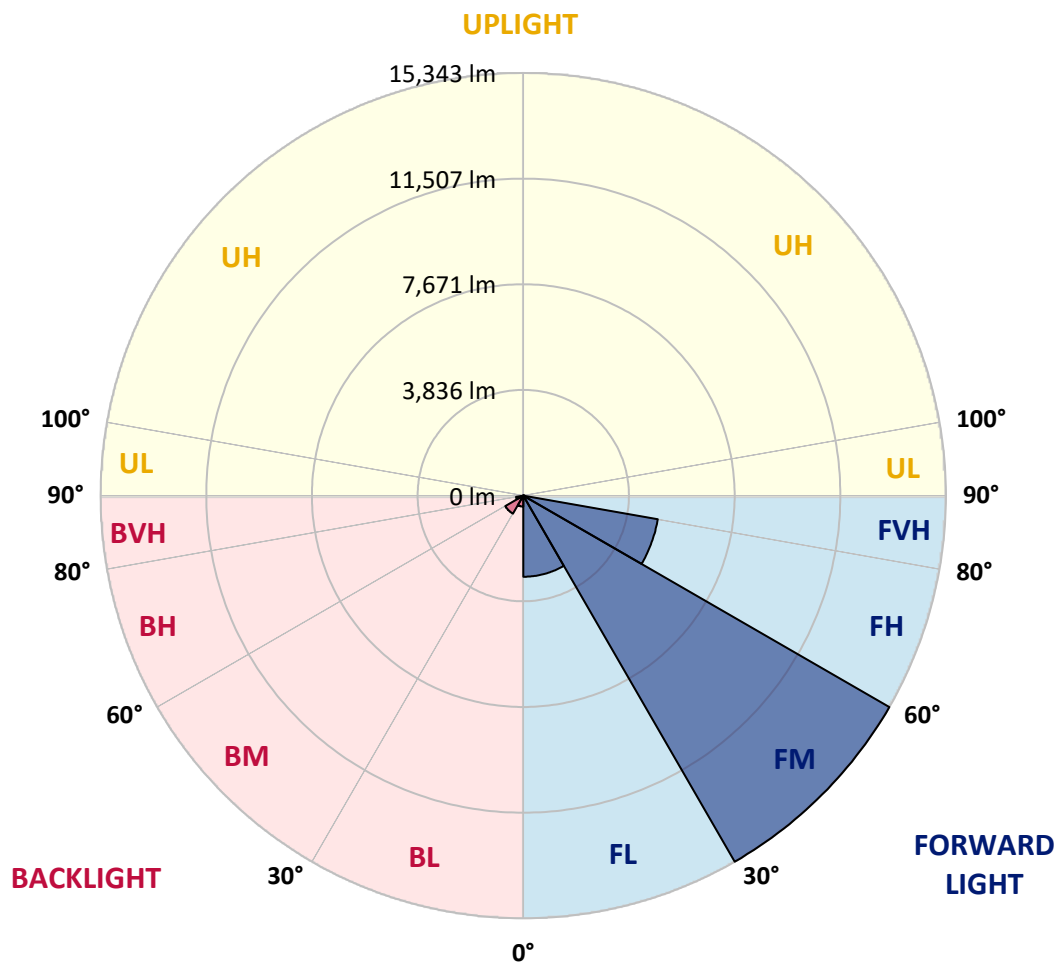
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2944.8	11.9			
FM (30°-60°)	15342.9	62.1			
FH (60°-80°)	4956.7	20.0			G2/5000
FVH (80°-90°)	55.4	0.2			G1/100
BL (0°-30°)	398.4	1.6	B1/500		
BM (30°-60°)	755.0	3.1	B1/1000		
BH (60°-80°)	267.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8
2.5°	3030.2	3002.9	2948.2	2929.5	2849.2	2724.6	2615.4	2468.5	2352.4	2340.5	2200.5
5°	4057.9	3996.4	3970.8	3847.9	3655.0	3474.0	3163.3	2927.8	2656.3	2635.8	2354.2
7.5°	5048.0	4962.7	4937.1	4821.0	4595.6	4310.5	3907.7	3479.2	3049.0	3009.7	2560.7
10°	5765.0	5777.0	5730.9	5654.1	5471.4	5181.2	4684.4	4098.9	3486.0	3436.5	2792.9
12.5°	6278.9	6277.2	6285.7	6284.0	6186.7	5966.5	5444.1	4769.8	3967.4	3870.1	3059.2
15°	6613.5	6618.6	6644.2	6733.0	6743.2	6606.7	6171.3	5411.7	4525.6	4404.4	3347.7
17.5°	6951.5	6987.4	7028.3	7112.0	7187.1	7132.5	6825.2	6080.9	5031.0	4940.5	3656.7
20°	7509.7	7559.3	7535.4	7586.6	7625.8	7631.0	7393.7	6698.8	5643.8	5491.9	4010.1
22.5°	8402.6	8400.9	8339.4	8247.2	8170.4	8167.0	7951.9	7333.9	6200.4	6053.5	4365.2
25°	9531.0	9536.1	9416.6	9153.7	8962.5	8728.6	8481.1	7890.4	6796.2	6615.2	4739.0
27.5°	10825.0	10792.6	10611.6	10249.7	9870.7	9471.3	9114.5	8537.4	7427.8	7277.6	5167.5
30°	11987.6	11975.6	11764.0	11321.8	10823.3	10422.1	9904.9	9348.3	8245.5	8061.2	5647.2
32.5°	13069.9	13087.0	12793.4	12335.9	11854.4	11391.8	10845.5	10123.4	9047.9	8786.7	6169.6
35°	13915.0	13932.0	13628.2	13247.5	12752.4	12368.3	11847.6	10949.6	9840.0	9619.8	6770.5
37.5°	14365.6	14387.8	14212.0	13925.2	13616.2	13423.3	12938.5	12013.2	10802.8	10669.7	7480.7
40°	14451.0	14476.6	14399.8	14323.0	14305.9	14444.2	14302.5	13266.2	12137.8	11929.5	8539.2
42.5°	14194.9	14229.1	14263.2	14433.9	14782.2	15289.2	15782.6	14966.6	13856.9	13576.9	9833.2
45°	13522.3	13518.9	13653.8	14095.9	14876.1	15958.4	17329.3	17095.4	16199.1	15866.2	11661.5
47.5°	12371.7	12354.6	12646.6	13276.5	14492.0	16081.3	18590.8	19680.0	19188.3	18881.1	13626.5
50°	10618.5	10702.1	11161.3	12040.5	13537.7	15709.2	18980.1	21375.2	21641.5	21315.4	15214.1
52.5°	8564.8	8561.3	9281.8	10475.1	12124.2	14889.7	18708.6	21682.5	22438.8	22189.5	15996.0
55°	6338.6	6383.0	7132.5	8336.0	10289.0	13394.3	17822.6	21366.7	22742.6	22566.8	16511.5
57°	4715.1	4793.7	5394.6	6668.1	8691.1	11914.2	16643.0	20801.6	22862.1	22766.5	16940.0
57.5°	4401.0	4404.4	4990.0	6147.4	8223.3	11345.7	16305.0	20566.0	22858.7	22805.8	17010.0
60°	2709.2	2794.6	3199.2	4155.2	6019.4	8855.0	14039.6	19212.2	22681.2	22758.0	17308.8
62.5°	1621.8	1657.6	1920.5	2504.4	3880.3	6463.3	11489.1	17479.5	22218.5	22452.4	17288.3
65°	1043.1	1051.6	1171.1	1515.9	2425.9	4368.6	8853.3	15190.2	21021.8	21452.0	16612.3
67.5°	805.8	819.4	867.2	995.3	1406.7	2721.2	6261.8	12747.3	19085.9	19640.7	14973.4
70°	715.3	722.1	739.2	780.2	930.4	1536.4	3895.7	9957.8	15827.0	15984.0	11717.9
72.5°	583.8	602.6	655.5	669.2	737.5	959.4	2168.1	6683.5	10633.8	10673.1	6555.4
75°	452.4	455.8	534.3	573.6	621.4	660.7	968.0	3369.9	5107.8	4834.6	2526.6
77.5°	338.0	353.4	389.2	438.7	507.0	472.9	433.6	1270.1	1585.9	1556.9	734.1
80°	216.8	225.3	271.4	329.5	394.4	309.0	244.1	372.2	348.3	358.5	175.8
82.5°	109.3	111.0	174.1	268.0	251.0	155.4	153.6	151.9	129.7	128.0	81.9
85°	12.0	25.6	112.7	153.6	112.7	51.2	71.7	70.0	68.3	70.0	47.8
87.5°	1.7	1.7	18.8	22.2	15.4	17.1	20.5	22.2	27.3	25.6	20.5
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°	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8	2070.8
2.5°	2132.2	2063.9	1937.6	1816.4	1725.9	1667.9	1592.8	1565.5	1526.2	1521.1	1502.3
5°	2224.4	2094.7	1874.4	1700.3	1560.3	1454.5	1362.3	1285.5	1224.0	1210.4	1217.2
7.5°	2355.9	2163.0	1855.7	1618.4	1423.8	1242.8	1096.0	1005.5	940.6	916.7	920.2
10°	2504.4	2253.4	1852.3	1531.3	1234.3	1012.3	851.9	771.6	734.1	720.4	705.1
12.5°	2680.2	2357.6	1843.7	1396.4	1026.0	807.5	693.1	645.3	609.5	599.2	599.2
15°	2878.3	2468.5	1802.7	1229.1	833.1	667.5	590.7	553.1	541.2	530.9	530.9
17.5°	3084.8	2577.8	1717.4	1022.6	691.4	571.9	524.1	501.9	484.8	472.9	472.9
20°	3320.4	2685.3	1580.8	839.9	583.8	510.4	472.9	447.3	433.6	423.4	420.0
22.5°	3544.0	2772.4	1406.7	689.7	508.7	459.2	425.1	397.8	384.1	379.0	379.0
25°	3776.2	2825.3	1196.7	570.2	464.3	416.5	379.0	356.8	344.8	341.4	339.7
27.5°	4001.6	2856.1	1012.3	498.5	423.4	377.3	341.4	324.4	312.4	309.0	310.7
30°	4274.7	2861.2	833.1	447.3	387.5	339.7	307.3	291.9	285.1	281.7	280.0
32.5°	4551.3	2854.4	699.9	416.5	353.4	307.3	280.0	268.0	262.9	257.8	257.8
35°	4862.0	2818.5	595.8	385.8	320.9	280.0	256.1	245.8	239.0	233.9	232.2
37.5°	5247.8	2799.7	536.0	351.7	291.9	254.4	232.2	221.9	216.8	210.0	208.3
40°	5855.5	2883.4	517.3	320.9	262.9	230.5	210.0	198.0	191.2	184.4	182.7
42.5°	6613.5	3030.2	486.5	290.2	237.3	208.3	187.8	174.1	162.2	153.6	150.2
45°	7595.1	3223.1	438.7	257.8	215.1	184.4	165.6	148.5	133.2	126.3	124.6
47.5°	8624.5	3409.2	396.1	232.2	191.2	163.9	143.4	124.6	111.0	105.8	104.1
50°	9256.2	3446.7	368.7	203.2	167.3	141.7	121.2	104.1	95.6	90.5	90.5
52.5°	9544.7	3387.0	331.2	177.5	145.1	124.6	104.1	90.5	85.4	81.9	80.2
55°	9746.1	3294.8	281.7	153.6	124.6	105.8	92.2	81.9	75.1	71.7	70.0
57°	9863.9	3170.2	244.1	134.9	107.6	92.2	81.9	73.4	66.6	59.8	59.8
57.5°	9869.0	3122.4	233.9	133.2	102.4	88.8	80.2	71.7	63.2	56.3	54.6
60°	9717.1	2794.6	187.8	112.7	81.9	75.1	66.6	56.3	44.4	37.6	35.9
62.5°	9228.8	2378.1	155.4	95.6	66.6	58.0	47.8	42.7	30.7	22.2	22.2
65°	8489.6	1929.1	133.2	76.8	54.6	42.7	32.4	30.7	18.8	10.2	8.5
67.5°	7421.0	1502.3	112.7	63.2	46.1	30.7	22.2	20.5	10.2	3.4	0.0
70°	5654.1	1024.3	93.9	51.2	34.1	22.2	15.4	12.0	6.8	1.7	0.0
72.5°	3258.9	563.4	78.5	39.3	25.6	17.1	12.0	6.8	6.8	0.0	0.0
75°	1164.3	242.4	59.8	29.0	20.5	13.7	8.5	3.4	5.1	1.7	0.0
77.5°	370.5	129.7	39.3	22.2	17.1	10.2	6.8	3.4	3.4	1.7	0.0
80°	109.3	68.3	23.9	18.8	12.0	8.5	5.1	1.7	3.4	1.7	0.0
82.5°	59.8	34.1	18.8	13.7	12.0	6.8	5.1	1.7	1.7	1.7	0.0
85°	30.7	20.5	15.4	13.7	12.0	6.8	5.1	1.7	0.0	1.7	1.7
87.5°	17.1	15.4	15.4	13.7	12.0	8.5	5.1	1.7	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)