

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: P651534

Luminaire Tested: **GALN-SA7D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27558.8 lumens
Efficiency: N/A
Efficacy: 63.6 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

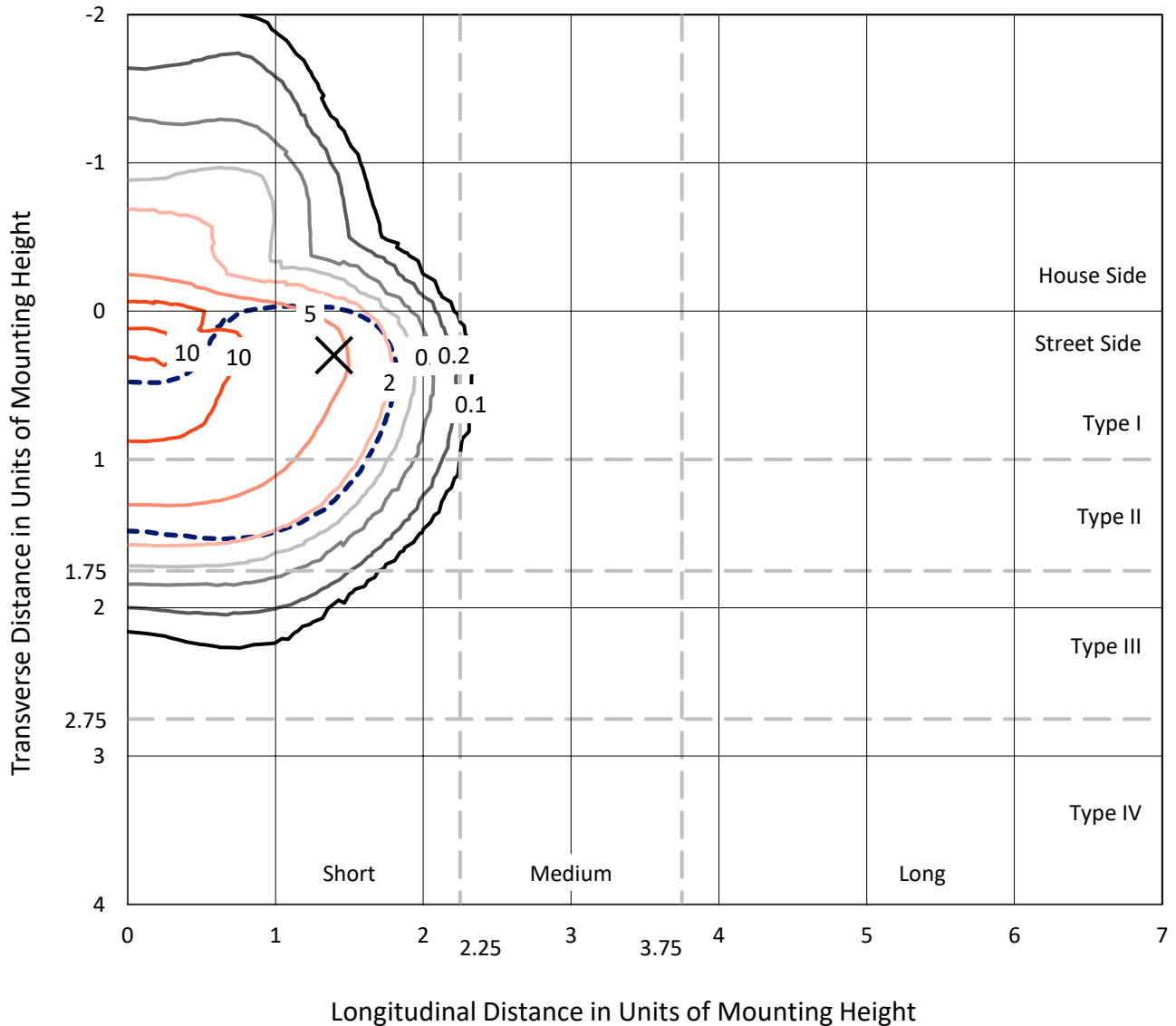
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

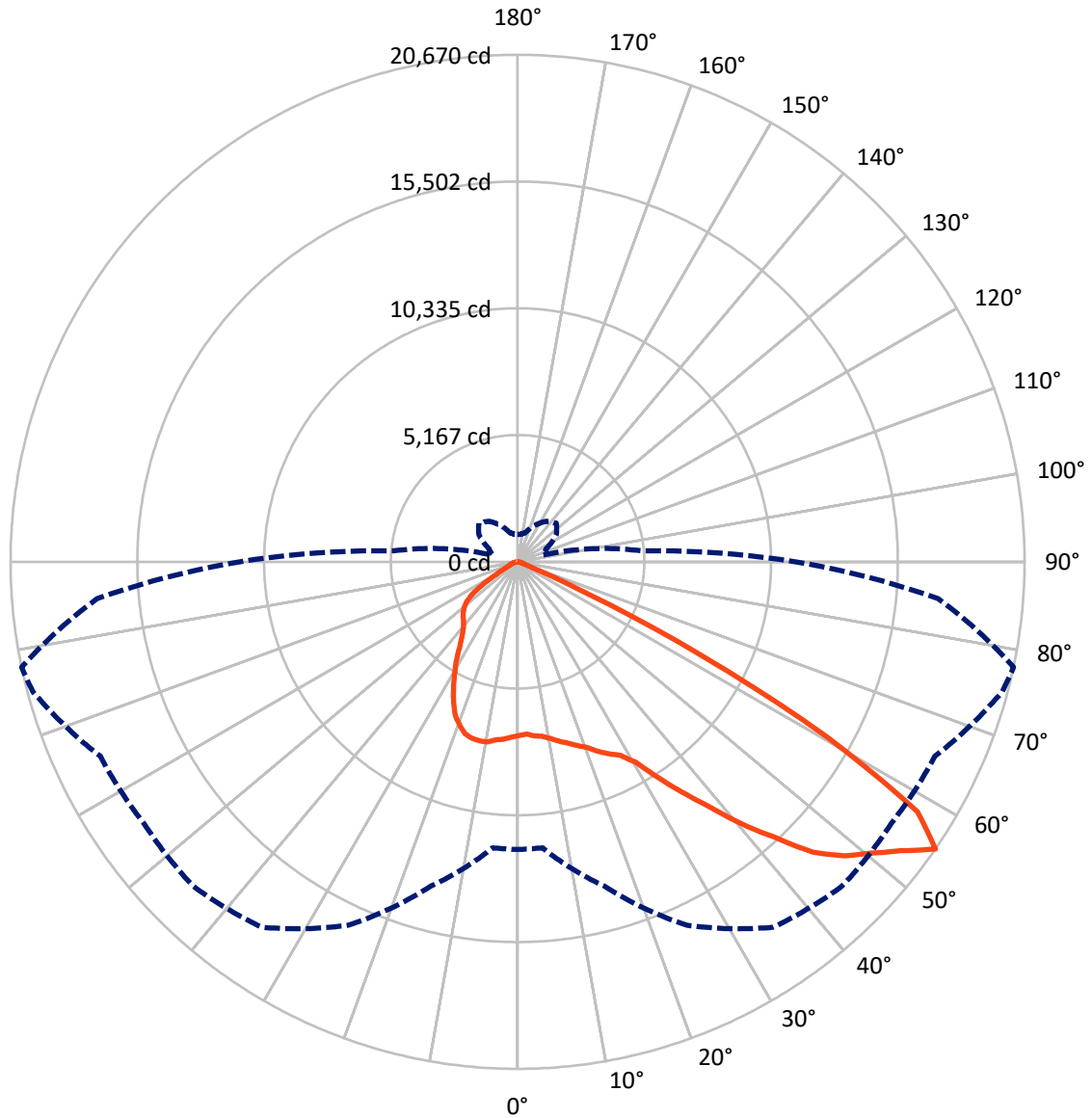
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5118.7	0.0	5118.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22440.0	0.0	22440.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	27558.8	0.0	27558.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.8	2.3
10°-20°	1672.0	6.1
20°-30°	2930.8	10.6
30°-40°	4832.5	17.5
40°-50°	7031.9	25.5
50°-60°	7967.9	28.9
60°-70°	2278.2	8.3
70°-80°	176.9	0.6
80°-90°	36.8	0.1
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°	27558.8	100.0
0°-180°	27558.8	100.0

Coefficient of Utilization

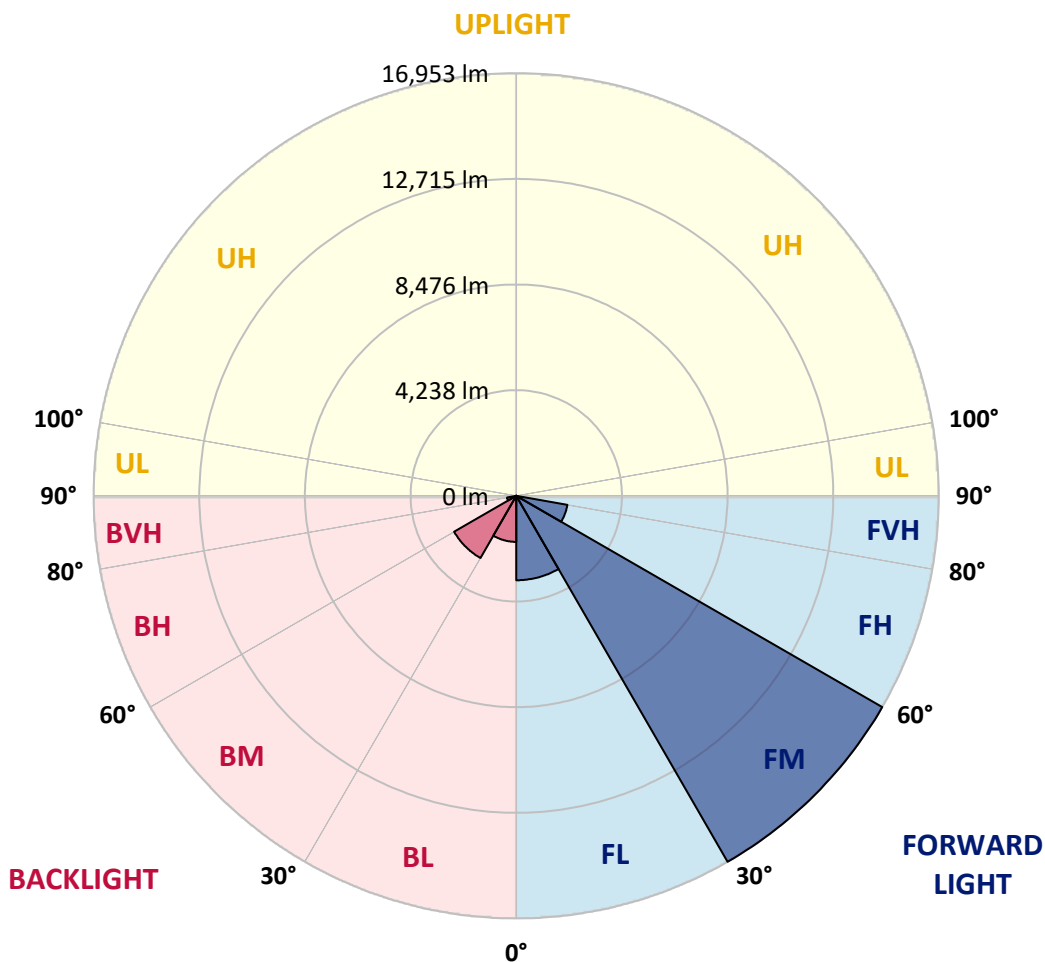


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3387.8	12.3			
FM (30°-60°)	16952.9	61.5			
FH (60°-80°)	2081.4	7.6			G2/5000
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1846.9	6.7	B3/2500		
BM (30°-60°)	2879.4	10.4	B3/5000		
BH (60°-80°)	373.6	1.4	B1/500		G1/500
BVH (80°-90°)	18.9	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°	55°	65°	75°	78°	85°
0°	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3
2.5°	6661.6	6725.6	6735.6	6814.4	6809.4	6942.5	6981.9	6986.9	7075.5	7031.2	7144.5
5°	6474.4	6439.9	6425.2	6563.1	6602.5	6720.8	6819.3	6878.5	7060.7	7124.8	7243.0
7.5°	6306.8	6306.8	6316.8	6439.9	6425.2	6577.9	6681.3	6863.7	7129.7	7183.9	7326.8
10°	6144.3	6085.1	6159.1	6287.1	6395.6	6464.5	6681.3	6853.8	7164.2	7321.9	7519.0
12.5°	6060.5	6090.1	6099.9	6193.5	6311.8	6518.8	6637.0	6922.8	7410.6	7504.2	7716.1
15°	6587.7	6528.6	6385.7	6301.9	6400.5	6499.0	6794.7	7085.3	7538.6	7671.7	7908.2
17.5°	7198.7	7149.4	7031.2	6804.5	6582.8	6765.1	6996.7	7262.7	7676.6	7873.7	8223.6
20°	7996.9	7918.1	7799.9	7356.4	7164.2	6967.1	7213.5	7528.8	7903.3	8080.7	8440.4
22.5°	8947.8	8947.8	8681.8	8144.7	7745.6	7558.4	7661.8	7844.2	8154.6	8396.0	8750.8
25°	9938.3	9908.7	9667.2	9110.5	8435.4	8213.7	8332.0	8460.0	8543.8	8676.8	8913.3
27.5°	11071.5	10899.0	10593.6	9977.6	9381.4	8952.8	9080.9	8967.6	8864.1	8933.1	9273.0
30°	11840.2	11948.5	11559.3	10968.0	10406.3	9928.3	9953.0	9854.5	9381.4	9480.0	9682.0
32.5°	12638.4	12707.3	12490.5	12165.3	11603.6	11046.9	10844.9	10761.1	10406.3	10450.7	10253.6
35°	13303.5	13436.6	13244.4	13101.5	12939.0	12490.5	11933.8	12204.8	11633.2	11524.8	11012.4
37.5°	13914.5	13875.1	14101.7	13954.0	13919.5	13604.1	12993.1	13047.4	12663.0	12638.4	12047.1
40°	14461.4	14471.3	14781.7	14850.7	14712.7	14151.0	13264.1	13692.8	14003.2	14032.8	13274.0
42.5°	14914.7	15047.8	15313.9	15870.6	15663.7	14727.5	13545.0	14013.1	15166.0	15348.3	14436.8
45°	15308.9	15579.9	15910.0	16407.7	16289.4	15545.5	14244.6	14673.3	16407.7	16885.6	15530.7
47.5°	15333.5	15688.4	16048.0	16787.1	16934.9	15984.0	14969.0	15717.9	17393.1	17910.5	16328.9
50°	15235.1	15422.3	16141.6	16944.8	17279.9	16698.4	15984.0	16594.9	18349.0	18674.2	16732.9
52.5°	14067.2	14210.1	15653.9	17092.6	17900.7	17506.5	17329.1	17816.9	19324.6	19566.0	17112.3
55°	11726.8	11702.2	13687.9	16348.5	18186.5	18703.8	18595.4	18767.8	20453.0	20669.8	17205.9
57.5°	8021.5	8469.9	10184.6	13613.9	16437.3	18422.9	18536.2	18250.5	19137.4	19221.1	14998.5
60°	4326.1	4513.3	5893.0	9085.8	12515.2	15013.3	15308.9	14791.6	14722.5	14486.1	10706.9
62.5°	1719.6	1813.2	2596.7	4498.6	6819.3	9125.3	9760.8	9549.0	9095.7	8474.8	5543.1
65°	818.0	877.1	1290.9	2103.9	3025.3	3803.8	4439.5	4636.5	3419.5	3079.5	1828.0
67.5°	556.7	601.1	941.1	1202.2	1079.1	1128.4	1468.3	1364.9	803.2	684.9	507.5
70°	423.8	453.3	753.9	818.0	482.9	340.0	379.4	354.7	330.1	335.1	330.1
72.5°	300.6	325.2	551.9	482.9	211.8	157.7	202.0	241.5	241.5	241.5	236.5
75°	182.3	207.0	320.3	187.2	83.8	83.8	128.1	162.6	172.5	177.4	167.5
77.5°	93.6	118.2	108.4	54.2	54.2	64.1	93.6	113.4	123.2	123.2	118.2
80°	19.7	19.7	19.7	29.6	54.2	69.0	93.6	103.4	118.2	118.2	108.4
82.5°	0.0	5.0	14.8	29.6	49.3	64.1	88.7	103.4	118.2	123.2	113.4
85°	0.0	5.0	9.8	19.7	34.5	39.4	34.5	29.6	29.6	29.6	29.6
87.5°	0.0	0.0	5.0	5.0	5.0	9.8	9.8	9.8	9.8	9.8	9.8
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°	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3	7085.3
2.5°	7154.4	7169.1	7144.5	7139.6	7119.8	7178.9	7036.1	7001.6	7090.3	7006.5	7026.2
5°	7248.0	7282.5	7238.2	7164.2	7055.8	6888.3	6745.4	6558.1	6469.5	6405.4	6395.6
7.5°	7317.0	7341.6	7297.3	7060.7	6735.6	6311.8	5996.4	5764.9	5582.6	5528.4	5439.7
10°	7597.8	7602.7	7381.0	6858.7	6223.1	5666.3	5183.4	4828.7	4646.4	4533.1	4483.8
12.5°	7785.1	7775.2	7326.8	6459.6	5612.2	4873.0	4321.2	3892.5	3725.0	3670.8	3636.3
15°	8021.5	7967.4	7198.7	6050.7	4823.7	4025.5	3527.9	3232.3	3217.5	3183.0	3217.5
17.5°	8208.7	8056.0	7011.4	5306.6	4069.9	3316.1	2990.8	3010.5	3050.0	3084.5	3089.4
20°	8514.3	8198.9	6582.8	4656.2	3370.2	2843.0	2838.1	2926.8	3025.3	3064.8	3104.1
22.5°	8745.8	8258.0	6124.6	3961.5	2798.7	2650.8	2734.6	2867.6	2941.6	2981.0	3040.1
25°	8829.6	8095.5	5513.6	3266.8	2522.7	2562.2	2690.3	2779.0	2872.6	2916.9	2892.3
27.5°	8913.3	8011.7	4784.4	2690.3	2374.9	2503.1	2611.5	2700.1	2729.7	2788.8	2828.2
30°	9115.3	7721.0	4129.1	2325.6	2301.1	2463.6	2542.4	2572.0	2650.8	2685.3	2685.3
32.5°	9278.0	7607.7	3434.3	2153.2	2291.1	2483.3	2493.1	2493.1	2503.1	2478.4	2468.6
35°	9613.1	7218.4	2813.5	2049.8	2286.3	2488.3	2512.9	2429.1	2202.5	2113.8	2089.1
37.5°	10026.9	6967.1	2355.2	2025.1	2320.7	2547.4	2586.8	2271.5	1975.8	1833.0	1808.3
40°	10529.5	6789.7	2054.6	2015.2	2399.5	2685.3	2567.1	2148.3	1763.9	1557.0	1547.2
42.5°	11115.8	6627.2	1852.6	2010.3	2498.1	2828.2	2547.4	2044.8	1547.2	1409.2	1428.9
45°	11583.9	6538.4	1714.7	1975.8	2532.6	2912.0	2562.2	1862.5	1458.5	1369.7	1379.7
47.5°	11948.5	6351.2	1601.3	1916.7	2527.7	2941.6	2429.1	1788.6	1414.1	1438.8	1463.4
50°	11958.4	6099.9	1458.5	1788.6	2453.8	2887.3	2276.4	1719.6	1404.3	1507.7	1557.0
52.5°	11825.4	5745.1	1305.7	1606.3	2281.3	2700.1	2138.4	1690.1	1359.9	1350.1	1409.2
55°	11352.3	5080.0	1049.5	1300.8	1926.6	2227.1	2015.2	1635.8	1226.9	1113.6	1123.4
57.5°	9174.6	3641.2	773.6	931.2	1364.9	1631.0	1818.2	1611.2	1103.7	946.0	950.9
60°	5681.1	2064.5	566.7	635.6	842.6	990.4	1473.3	1497.9	985.5	798.2	788.4
62.5°	2916.9	1020.0	438.5	448.3	517.4	581.4	1010.1	1256.5	891.8	758.8	758.8
65°	975.6	502.6	384.3	344.9	344.9	359.7	611.0	872.1	753.9	635.6	635.6
67.5°	418.8	374.5	335.1	300.6	275.9	261.1	344.9	507.5	561.7	482.9	463.1
70°	325.2	315.4	290.7	251.3	216.8	197.1	202.0	261.1	320.3	310.4	300.6
72.5°	241.5	241.5	231.6	197.1	167.5	142.9	133.0	137.9	152.7	157.7	162.6
75°	167.5	172.5	172.5	152.7	123.2	103.4	88.7	73.9	59.1	49.3	44.3
77.5°	113.4	118.2	128.1	113.4	93.6	69.0	54.2	39.4	24.6	9.8	9.8
80°	98.6	113.4	123.2	113.4	98.6	73.9	54.2	29.6	14.8	0.0	0.0
82.5°	103.4	113.4	128.1	108.4	93.6	69.0	54.2	34.5	14.8	5.0	0.0
85°	24.6	24.6	29.6	34.5	44.3	49.3	39.4	24.6	14.8	5.0	0.0
87.5°	9.8	9.8	9.8	9.8	9.8	5.0	5.0	5.0	5.0	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)