

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: P529598

Luminaire Tested: **GALN-SA4D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24330 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

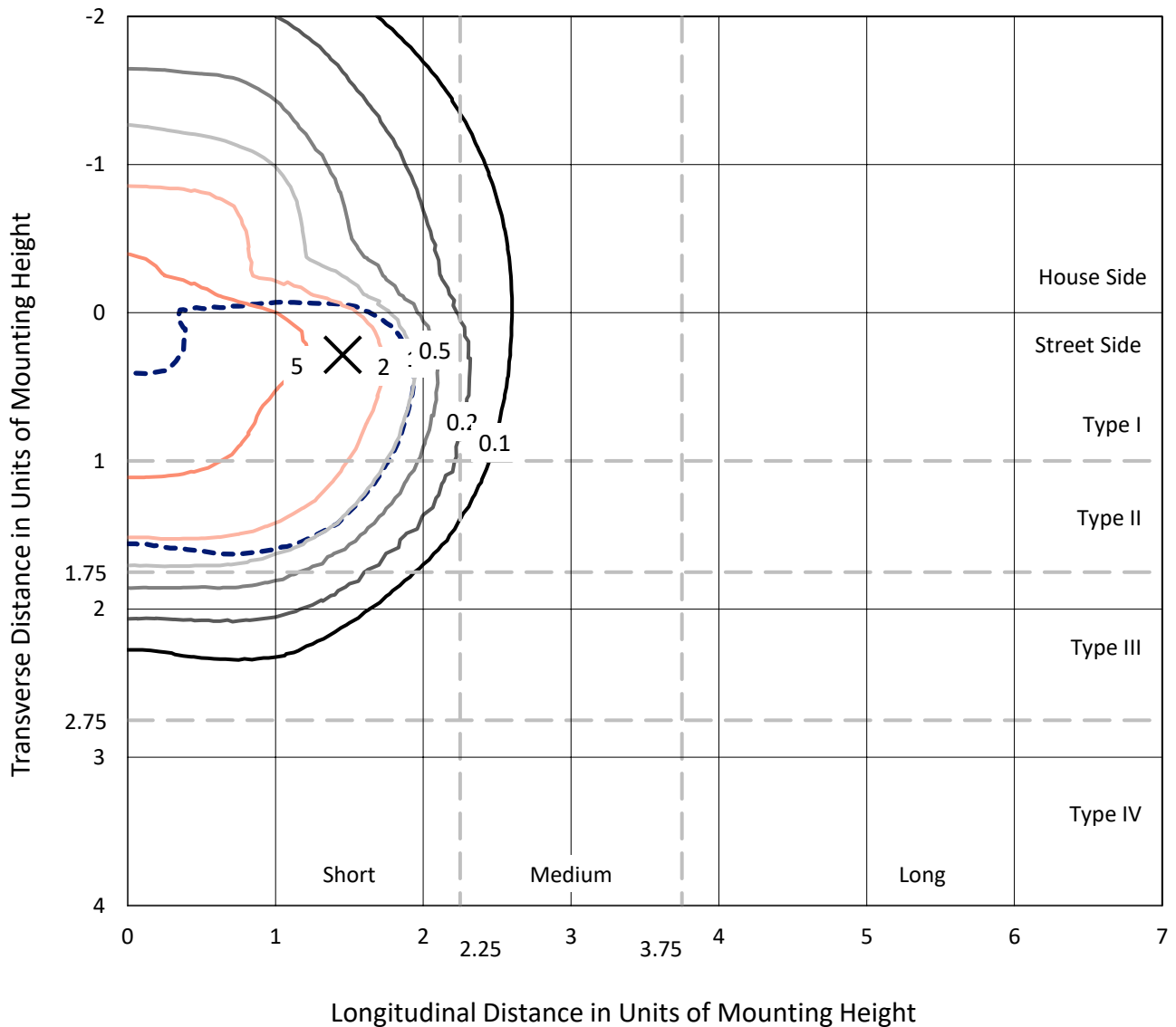
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

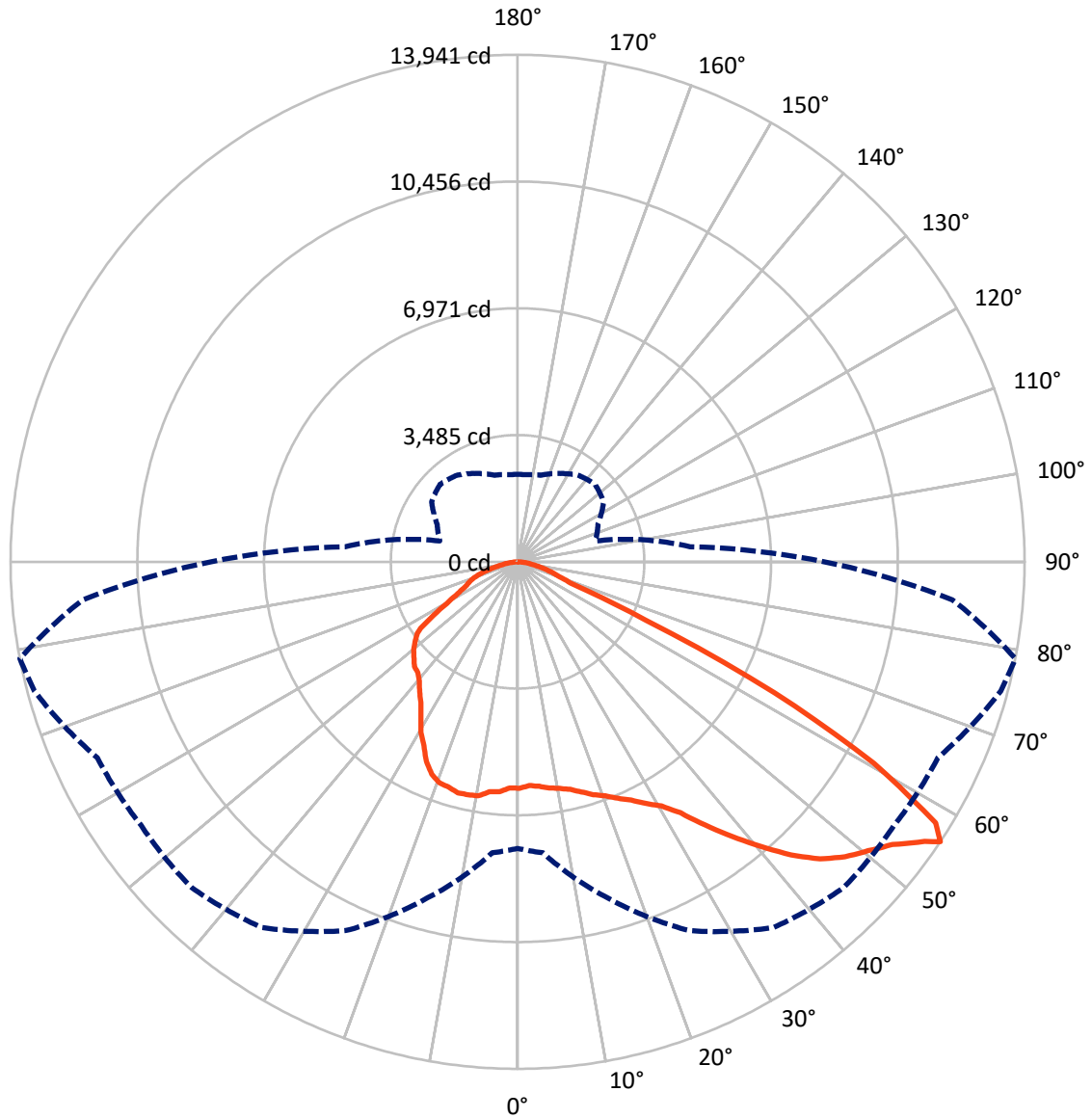
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7185.2	0.0	7185.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17144.8	0.0	17144.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	24330.0	0.0	24330.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	2.3
10°-20°	1548.9	6.4
20°-30°	2649.9	10.9
30°-40°	4061.3	16.7
40°-50°	5488.9	22.6
50°-60°	6304.1	25.9
60°-70°	2873.6	11.8
70°-80°	708.5	2.9
80°-90°	128.8	0.5
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°	24330.0	100.0
0°-180°	24330.0	100.0



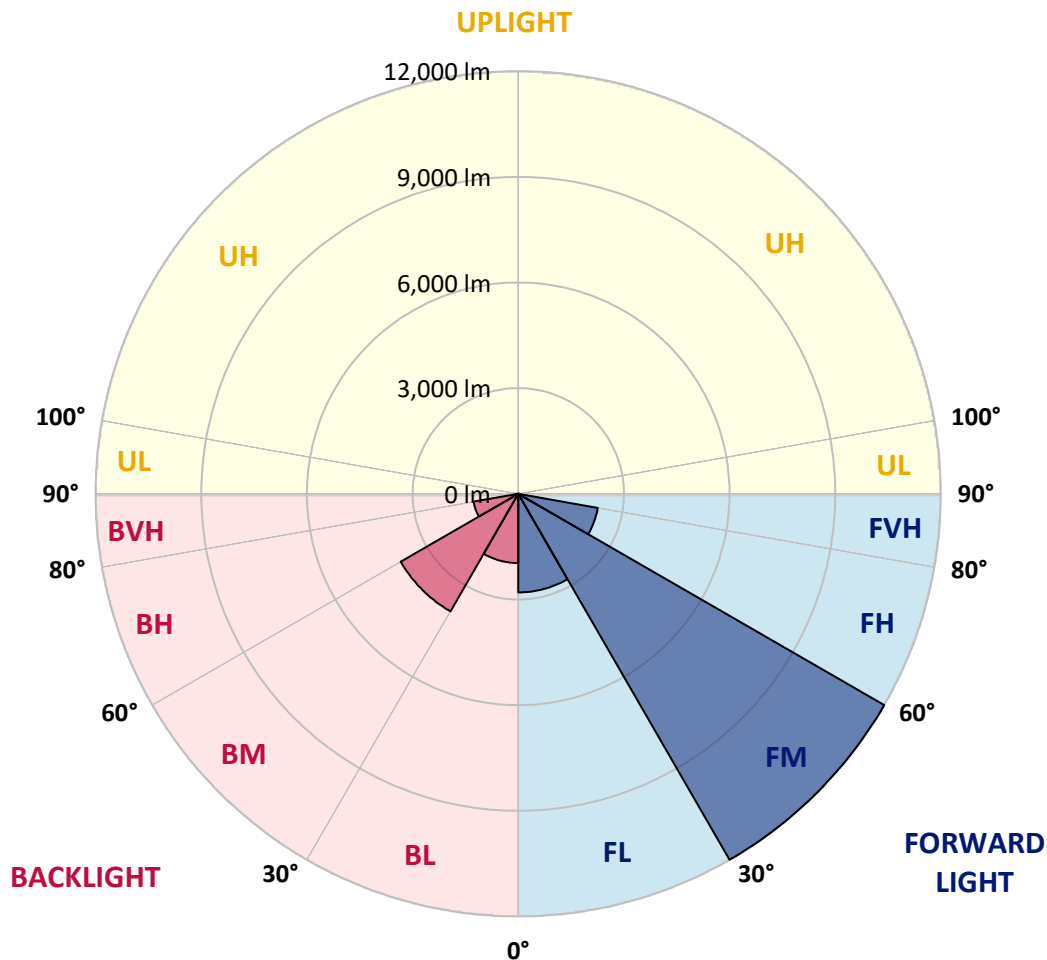
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2799.4	11.5			
FM (30°-60°)	12000.3	49.3			
FH (60°-80°)	2293.8	9.4			G2/5000
FVH (80°-90°)	51.4	0.2			G1/100
BL (0°-30°)	1965.5	8.1	B3/2500		
BM (30°-60°)	3854.0	15.8	B3/5000		
BH (60°-80°)	1288.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	77.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1
2.5°	5922.0	5906.9	5943.2	5970.5	6003.8	6046.3	6067.5	6079.6	6185.7	6158.4	6240.2
5°	5794.7	5755.3	5782.6	5803.8	5861.4	5912.9	5970.5	6061.4	6158.4	6200.8	6300.9
7.5°	5682.6	5661.4	5655.3	5670.5	5749.3	5815.9	5916.0	6049.3	6206.9	6276.6	6334.2
10°	5497.7	5467.4	5512.9	5612.9	5634.1	5773.5	5888.7	6079.6	6216.0	6337.2	6506.9
12.5°	5415.9	5385.6	5394.7	5452.3	5600.8	5734.1	5870.5	6085.7	6373.6	6422.1	6649.4
15°	5546.2	5515.9	5525.0	5509.8	5652.3	5722.0	5937.2	6206.9	6482.7	6564.5	6807.0
17.5°	5843.2	5846.2	5806.8	5773.5	5740.2	5888.7	6037.2	6279.6	6525.1	6731.2	6913.1
20°	6410.0	6309.9	6231.1	6043.2	5991.7	6055.4	6243.3	6476.6	6697.9	6867.6	7073.7
22.5°	6846.4	6855.5	6743.3	6434.2	6322.1	6349.3	6510.0	6700.9	6943.4	7064.6	7301.0
25°	7479.8	7416.2	7294.9	7049.4	6797.9	6819.1	6937.3	7110.1	7176.7	7261.6	7519.2
27.5°	8058.7	8076.8	7837.4	7607.1	7294.9	7234.3	7446.5	7476.8	7364.6	7525.3	7613.1
30°	8646.6	8631.5	8473.9	8204.1	7898.0	7910.2	8004.1	7855.6	7701.0	7788.9	7849.5
32.5°	9255.8	9083.0	9077.0	8834.5	8601.2	8489.0	8373.9	8446.6	8207.2	8225.4	8167.8
35°	9743.7	9768.0	9628.6	9455.8	9340.7	9143.7	8828.5	8958.8	8913.3	8892.1	8643.6
37.5°	10098.3	10004.4	10074.1	10016.5	9907.4	9661.9	9334.6	9458.9	9480.1	9583.1	9295.2
40°	10389.3	10349.9	10534.8	10565.1	10489.3	9958.9	9371.0	9740.7	10058.9	10283.2	9940.7
42.5°	10528.7	10613.6	10807.5	11040.9	10871.2	10304.4	9558.9	9955.9	10665.1	11019.7	10552.9
45°	10716.6	10607.5	10895.4	11322.7	11325.8	10595.4	9740.7	10246.8	11137.9	11653.1	10971.2
47.5°	10525.7	10580.2	10877.2	11419.7	11559.1	10901.5	10231.7	10659.0	11659.2	12116.8	11359.1
50°	10098.3	10207.4	10749.9	11313.6	11734.9	11225.8	10795.4	11104.5	12141.0	12489.6	11422.8
52.5°	9652.8	9713.4	10562.0	11395.5	11813.7	11644.0	11550.0	11719.8	12729.0	12910.8	11501.6
55°	8440.5	8728.5	9940.7	11359.1	12198.6	12398.6	12325.9	12574.4	13395.7	13577.6	11931.9
56°	7879.9	8031.4	9568.0	11189.4	12274.4	12674.4	12638.1	12750.2	13750.3	13941.3	11998.6
57.5°	6843.3	6855.5	8158.7	10437.8	11989.5	12756.3	12719.9	12807.8	13680.6	13550.3	11413.7
60°	4282.4	4470.3	5552.3	8028.4	10195.3	11834.9	12041.0	11334.9	11534.9	11259.1	8880.0
62.5°	2218.5	2191.2	2909.5	4694.6	6767.6	8473.9	8664.8	8631.5	8322.3	7919.3	5800.8
65°	1106.2	1112.3	1521.4	2324.6	3467.1	4437.0	4970.4	5028.0	4206.6	3870.2	2751.9
67.5°	803.1	833.4	1094.1	1421.4	1633.6	1827.5	2239.7	2197.3	1663.9	1582.0	1466.9
70°	624.3	651.6	888.0	1085.0	985.0	985.0	1072.9	1109.2	1185.0	1218.3	1257.7
72.5°	454.6	475.8	678.9	748.6	645.5	694.0	803.1	888.0	966.8	978.9	1024.4
75°	312.2	330.3	445.5	412.2	387.9	478.9	588.0	666.8	724.3	754.6	781.9
77.5°	203.1	209.1	254.6	215.2	248.5	309.1	381.9	448.5	506.1	530.4	536.4
80°	90.9	100.0	109.1	136.4	172.8	221.2	272.8	327.3	363.7	372.8	391.0
82.5°	51.5	51.5	66.7	97.0	127.3	160.6	197.0	236.4	278.8	287.9	284.9
85°	27.3	27.3	39.4	57.6	78.8	94.0	90.9	94.0	100.0	115.2	112.1
87.5°	9.1	9.1	12.1	12.1	15.2	18.2	15.2	21.2	27.3	27.3	27.3
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°	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1	6225.1
2.5°	6216.0	6243.3	6206.9	6285.7	6285.7	6270.5	6194.8	6219.0	6237.2	6237.2	6252.4
5°	6334.2	6325.1	6349.3	6255.4	6197.8	6176.6	6052.3	5991.7	5940.2	5937.2	5891.7
7.5°	6400.9	6376.6	6367.5	6297.8	6043.2	5888.7	5622.0	5467.4	5434.1	5315.9	5361.3
10°	6506.9	6552.4	6506.9	6128.1	5773.5	5418.9	5158.3	4918.8	4824.9	4749.1	4703.7
12.5°	6725.2	6703.9	6440.3	5928.1	5431.0	5009.8	4621.8	4370.3	4276.3	4209.7	4203.6
15°	6910.0	6803.9	6400.9	5612.9	4897.6	4449.1	4130.9	3952.0	3909.6	3915.7	3943.0
17.5°	6973.7	6900.9	6194.8	5285.6	4500.6	3973.3	3824.8	3797.5	3836.9	3882.3	3894.5
20°	7073.7	6958.5	6109.9	4840.0	4009.6	3676.3	3667.2	3764.1	3836.9	3903.6	3912.6
22.5°	7282.8	6991.9	5834.1	4418.8	3673.2	3588.4	3676.3	3758.1	3870.2	3924.8	3876.3
25°	7343.4	6919.1	5446.2	3912.6	3461.1	3533.8	3627.8	3739.9	3818.7	3849.0	3870.2
27.5°	7394.9	6807.0	4921.9	3576.2	3394.4	3530.8	3627.8	3721.7	3764.1	3791.4	3815.7
30°	7540.4	6773.6	4467.3	3352.0	3352.0	3470.2	3594.4	3618.7	3676.3	3709.6	3752.0
32.5°	7613.1	6543.3	4000.5	3209.5	3309.5	3500.5	3509.6	3555.0	3558.1	3585.3	3539.9
35°	7804.1	6379.6	3567.1	3106.5	3327.7	3470.2	3515.6	3488.4	3339.8	3267.1	3282.3
37.5°	7943.5	6297.8	3255.0	3094.4	3330.8	3503.5	3527.7	3321.7	3167.1	3045.9	3076.2
40°	8319.3	6094.8	3018.6	3073.1	3358.0	3539.9	3473.2	3248.9	2970.1	2845.8	2824.6
42.5°	8607.2	5949.3	2870.1	3048.9	3379.2	3591.4	3445.9	3103.4	2818.6	2703.4	2733.7
45°	8940.6	5916.0	2791.3	3055.0	3415.6	3618.7	3412.6	2991.3	2688.2	2642.8	2633.7
47.5°	9058.8	5676.5	2706.4	3003.4	3406.5	3609.6	3300.4	2906.5	2639.8	2645.8	2670.1
50°	8861.8	5431.0	2642.8	2897.4	3345.9	3527.7	3124.7	2794.3	2612.5	2688.2	2730.7
52.5°	8610.3	5179.5	2512.5	2754.9	3221.6	3400.5	3042.8	2788.3	2585.2	2561.0	2570.0
55°	8686.0	4973.4	2330.6	2561.0	3021.6	3164.1	2951.9	2730.7	2518.5	2427.6	2457.9
56°	8440.5	4761.2	2212.4	2439.7	2885.2	3012.5	2906.5	2679.1	2464.0	2403.4	2403.4
57.5°	7746.5	4049.0	2057.9	2245.8	2597.3	2748.9	2818.6	2648.8	2403.4	2297.3	2300.3
60°	5712.9	2879.2	1845.7	1979.1	2151.8	2273.0	2597.3	2564.0	2251.8	2179.1	2151.8
62.5°	3521.7	2103.3	1694.2	1745.7	1833.6	1933.6	2267.0	2321.5	2091.2	2012.4	1994.2
65°	1973.0	1609.3	1579.0	1600.2	1642.6	1694.2	1882.1	2003.3	1845.7	1724.5	1718.4
67.5°	1442.6	1439.6	1463.8	1482.0	1500.2	1500.2	1545.7	1594.2	1572.9	1476.0	1466.9
70°	1282.0	1291.1	1309.3	1312.3	1318.4	1297.1	1260.8	1245.6	1269.9	1209.3	1197.1
72.5°	1057.7	1088.0	1109.2	1112.3	1078.9	1051.7	1003.2	951.6	933.5	921.3	918.3
75°	812.2	833.4	842.5	839.5	827.4	788.0	730.4	678.9	645.5	609.2	627.4
77.5°	548.6	578.9	594.0	594.0	575.8	515.2	487.9	448.5	415.2	375.8	381.9
80°	384.9	406.1	430.4	427.3	397.0	366.7	327.3	290.9	263.7	233.4	230.3
82.5°	287.9	300.0	312.2	306.1	284.9	254.6	227.3	194.0	163.7	142.4	142.4
85°	103.0	112.1	136.4	142.4	154.6	154.6	130.3	109.1	87.9	72.7	72.7
87.5°	30.3	30.3	33.3	33.3	30.3	33.3	27.3	30.3	33.3	21.2	21.2
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)