

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: P532640

Luminaire Tested: **GALN-SA8A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532640
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-SA8A-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 29358 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

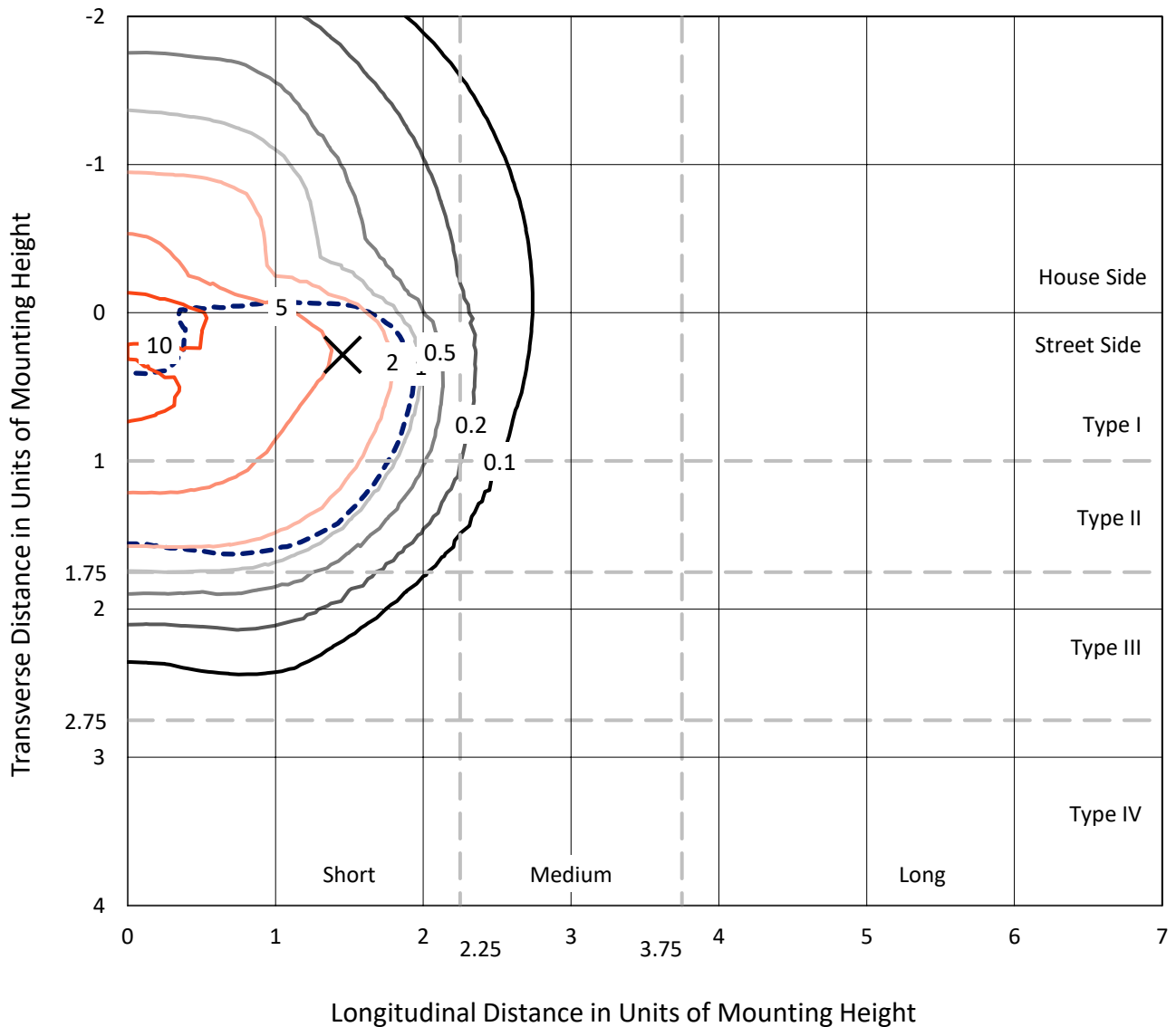
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

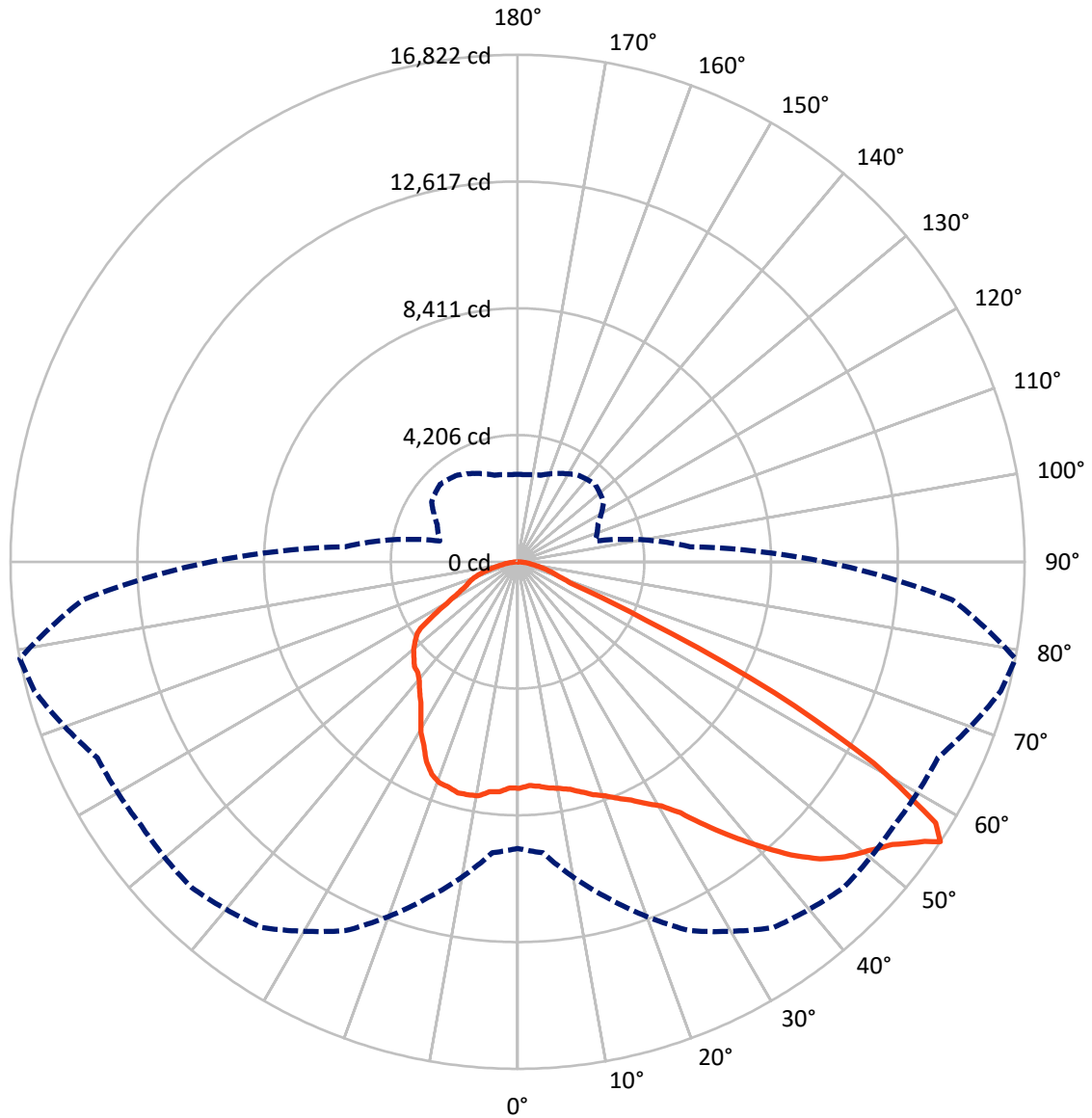
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	8670.1	0.0	8670.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20687.9	0.0	20687.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	29358.0	0.0	29358.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.9	2.3
10°-20°	1869.0	6.4
20°-30°	3197.5	10.9
30°-40°	4900.6	16.7
40°-50°	6623.2	22.6
50°-60°	7606.9	25.9
60°-70°	3467.5	11.8
70°-80°	854.9	2.9
80°-90°	155.4	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°	29358.0	100.0
0°-180°	29358.0	100.0



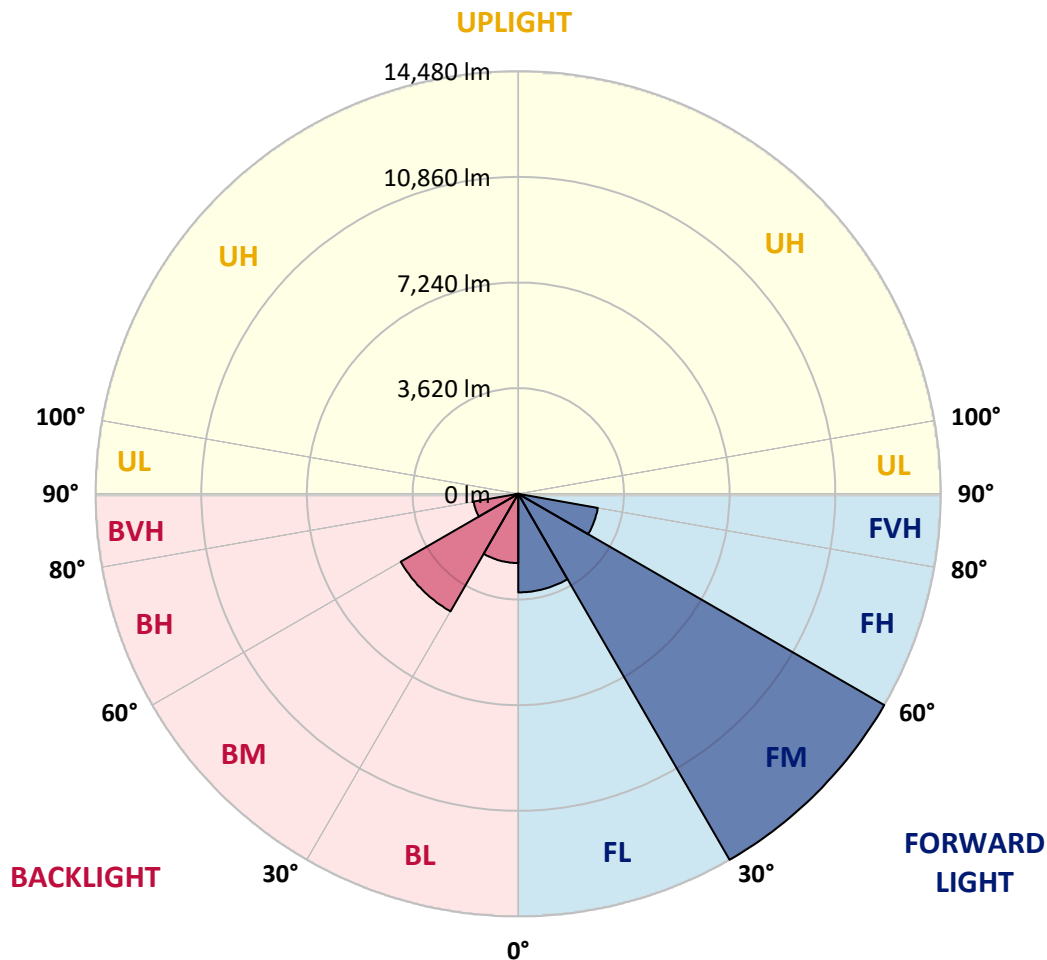
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3377.9	11.5			
FM (30°-60°)	14480.2	49.3			
FH (60°-80°)	2767.8	9.4			G2/5000
FVH (80°-90°)	62.0	0.2			G1/100
BL (0°-30°)	2371.6	8.1	B3/2500		
BM (30°-60°)	4650.5	15.8	B3/5000		
BH (60°-80°)	1554.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.3	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°	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5
2.5°	7145.8	7127.6	7171.4	7204.4	7244.6	7295.8	7321.4	7336.0	7464.0	7431.1	7529.8
5°	6992.3	6944.7	6977.6	7003.2	7072.7	7134.9	7204.4	7314.1	7431.1	7482.3	7603.0
7.5°	6856.9	6831.3	6824.0	6842.3	6937.4	7017.8	7138.5	7299.4	7489.6	7573.7	7643.2
10°	6633.9	6597.3	6652.1	6772.8	6798.4	6966.7	7105.6	7336.0	7500.6	7646.9	7851.7
12.5°	6535.1	6498.6	6509.5	6579.0	6758.2	6919.1	7083.7	7343.3	7690.7	7749.3	8023.5
15°	6692.4	6655.8	6666.8	6648.5	6820.4	6904.5	7164.1	7489.6	7822.4	7921.1	8213.7
17.5°	7050.8	7054.4	7006.9	6966.7	6926.4	7105.6	7284.8	7577.4	7873.6	8122.3	8341.7
20°	7734.6	7613.9	7518.9	7292.1	7230.0	7306.8	7533.5	7815.1	8082.0	8286.8	8535.5
22.5°	8261.2	8272.2	8136.9	7763.9	7628.6	7661.5	7855.3	8085.7	8378.3	8524.5	8809.8
25°	9025.6	8948.8	8802.5	8506.3	8202.7	8228.3	8371.0	8579.4	8659.9	8762.3	9073.1
27.5°	9724.1	9746.0	9457.1	9179.2	8802.5	8729.3	8985.3	9021.9	8886.6	9080.4	9186.5
30°	10433.5	10415.2	10225.1	9899.6	9530.2	9544.9	9658.2	9479.0	9292.5	9398.6	9471.7
32.5°	11168.6	10960.1	10952.8	10660.3	10378.7	10243.4	10104.4	10192.2	9903.3	9925.2	9855.7
35°	11757.4	11786.6	11618.4	11409.9	11271.0	11033.3	10652.9	10810.2	10755.3	10729.7	10429.9
37.5°	12185.2	12071.9	12156.0	12086.5	11954.8	11658.6	11263.7	11413.6	11439.2	11563.5	11216.1
40°	12536.3	12488.8	12711.9	12748.4	12657.0	12017.0	11307.6	11753.7	12137.7	12408.3	11995.1
42.5°	12704.5	12806.9	13041.0	13322.6	13117.8	12433.9	11534.3	12013.4	12869.1	13297.0	12733.8
45°	12931.3	12799.6	13147.0	13662.7	13666.3	12785.0	11753.7	12364.4	13439.6	14061.3	13238.5
47.5°	12700.9	12766.7	13125.1	13779.7	13947.9	13154.4	12346.1	12861.8	14068.6	14620.8	13706.6
50°	12185.2	12316.9	12971.5	13651.7	14160.0	13545.7	13026.4	13399.4	14650.1	15070.6	13783.4
52.5°	11647.7	11720.8	12744.8	13750.5	14255.1	14050.3	13937.0	14141.8	15359.5	15579.0	13878.4
55°	10184.8	10532.3	11995.1	13706.6	14719.6	14960.9	14873.2	15173.0	16164.1	16383.5	14397.7
56°	9508.3	9691.1	11545.3	13501.8	14811.0	15293.7	15249.8	15385.1	16592.0	16822.4	14478.2
57.5°	8257.6	8272.2	9844.7	12594.8	14467.2	15392.5	15348.6	15454.6	16507.9	16350.6	13772.4
60°	5167.4	5394.1	6699.7	9687.5	12302.3	14280.7	14529.4	13677.3	13918.7	13585.9	10715.1
62.5°	2676.9	2644.0	3510.8	5664.7	8166.2	10225.1	10455.5	10415.2	10042.2	9555.8	6999.6
65°	1334.8	1342.1	1835.8	2804.9	4183.6	5353.9	5997.5	6067.0	5076.0	4670.0	3320.6
67.5°	969.1	1005.7	1320.2	1715.1	1971.1	2205.2	2702.5	2651.4	2007.7	1909.0	1770.0
70°	753.3	786.3	1071.5	1309.2	1188.5	1188.5	1294.6	1338.5	1429.9	1470.1	1517.7
72.5°	548.6	574.2	819.2	903.3	778.9	837.5	969.1	1071.5	1166.6	1181.2	1236.1
75°	376.7	398.6	537.6	497.4	468.1	577.8	709.5	804.5	874.0	910.6	943.5
77.5°	245.0	252.3	307.2	259.6	299.9	373.0	460.8	541.2	610.7	640.0	647.3
80°	109.7	120.7	131.7	164.6	208.5	267.0	329.1	395.0	438.8	449.8	471.8
82.5°	62.2	62.2	80.5	117.0	153.6	193.8	237.7	285.2	336.4	347.4	343.8
85°	32.9	32.9	47.5	69.5	95.1	113.4	109.7	113.4	120.7	139.0	135.3
87.5°	11.0	11.0	14.6	14.6	18.3	21.9	18.3	25.6	32.9	32.9	32.9
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°	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5	7511.5
2.5°	7500.6	7533.5	7489.6	7584.7	7584.7	7566.4	7475.0	7504.2	7526.2	7526.2	7544.5
5°	7643.2	7632.2	7661.5	7548.1	7478.6	7453.0	7303.1	7230.0	7167.8	7164.1	7109.3
7.5°	7723.7	7694.4	7683.4	7599.3	7292.1	7105.6	6783.8	6597.3	6557.1	6414.4	6469.3
10°	7851.7	7906.5	7851.7	7394.5	6966.7	6538.8	6224.3	5935.4	5822.0	5730.6	5675.7
12.5°	8115.0	8089.4	7771.2	7153.2	6553.4	6045.1	5577.0	5273.4	5160.1	5079.6	5072.3
15°	8338.0	8210.0	7723.7	6772.8	5909.8	5368.5	4984.5	4768.8	4717.6	4724.9	4757.8
17.5°	8414.8	8327.1	7475.0	6377.9	5430.7	4794.4	4615.2	4582.3	4629.8	4684.7	4699.3
20°	8535.5	8396.6	7372.6	5840.3	4838.3	4436.0	4425.0	4542.0	4629.8	4710.3	4721.2
22.5°	8787.9	8436.8	7039.8	5332.0	4432.3	4329.9	4436.0	4534.7	4670.0	4735.9	4677.3
25°	8861.0	8349.0	6571.7	4721.2	4176.3	4264.1	4377.5	4512.8	4607.9	4644.4	4670.0
27.5°	8923.2	8213.7	5939.0	4315.3	4095.9	4260.4	4377.5	4490.8	4542.0	4575.0	4604.2
30°	9098.7	8173.5	5390.5	4044.7	4044.7	4187.3	4337.2	4366.5	4436.0	4476.2	4527.4
32.5°	9186.5	7895.5	4827.3	3872.8	3993.5	4223.9	4234.8	4289.7	4293.4	4326.3	4271.4
35°	9416.9	7698.1	4304.3	3748.5	4015.4	4187.3	4242.2	4209.2	4030.1	3942.3	3960.6
37.5°	9585.1	7599.3	3927.7	3733.8	4019.1	4227.5	4256.8	4008.1	3821.6	3675.3	3711.9
40°	10038.6	7354.3	3642.4	3708.2	4052.0	4271.4	4191.0	3920.3	3583.9	3434.0	3408.4
42.5°	10386.0	7178.8	3463.2	3679.0	4077.6	4333.6	4158.0	3744.8	3401.0	3262.1	3298.6
45°	10788.3	7138.5	3368.1	3686.3	4121.5	4366.5	4117.8	3609.5	3243.8	3188.9	3178.0
47.5°	10930.9	6849.6	3265.7	3624.1	4110.5	4355.5	3982.5	3507.1	3185.3	3192.6	3221.8
50°	10693.2	6553.4	3188.9	3496.1	4037.4	4256.8	3770.4	3371.8	3152.4	3243.8	3295.0
52.5°	10389.6	6249.9	3031.7	3324.2	3887.4	4103.2	3671.7	3364.5	3119.5	3090.2	3101.2
55°	10481.1	6001.2	2812.3	3090.2	3646.1	3817.9	3562.0	3295.0	3039.0	2929.3	2965.9
56°	10184.8	5745.2	2669.6	2943.9	3481.5	3635.1	3507.1	3232.8	2973.2	2900.0	2900.0
57.5°	9347.4	4885.8	2483.1	2709.9	3134.1	3316.9	3401.0	3196.2	2900.0	2772.0	2775.7
60°	6893.5	3474.2	2227.1	2388.0	2596.5	2742.8	3134.1	3093.9	2717.2	2629.4	2596.5
62.5°	4249.5	2538.0	2044.3	2106.5	2212.5	2333.2	2735.5	2801.3	2523.4	2428.3	2406.3
65°	2380.7	1941.9	1905.3	1930.9	1982.1	2044.3	2271.0	2417.3	2227.1	2080.9	2073.5
67.5°	1740.7	1737.1	1766.3	1788.3	1810.2	1810.2	1865.1	1923.6	1898.0	1781.0	1770.0
70°	1546.9	1557.9	1579.8	1583.5	1590.8	1565.2	1521.3	1503.0	1532.3	1459.2	1444.5
72.5°	1276.3	1312.9	1338.5	1342.1	1301.9	1269.0	1210.5	1148.3	1126.4	1111.7	1108.1
75°	980.1	1005.7	1016.7	1013.0	998.4	950.8	881.3	819.2	778.9	735.1	757.0
77.5°	661.9	698.5	716.8	716.8	694.8	621.7	588.8	541.2	501.0	453.5	460.8
80°	464.4	490.0	519.3	515.6	479.1	442.5	395.0	351.1	318.2	281.6	277.9
82.5°	347.4	362.0	376.7	369.4	343.8	307.2	274.3	234.1	197.5	171.9	171.9
85°	124.3	135.3	164.6	171.9	186.5	186.5	157.3	131.7	106.1	87.8	87.8
87.5°	36.6	36.6	40.2	40.2	36.6	40.2	32.9	36.6	40.2	25.6	25.6
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)