

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: P534044

Luminaire Tested: **GALN-SA9C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534044
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-SA9C-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 50670 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

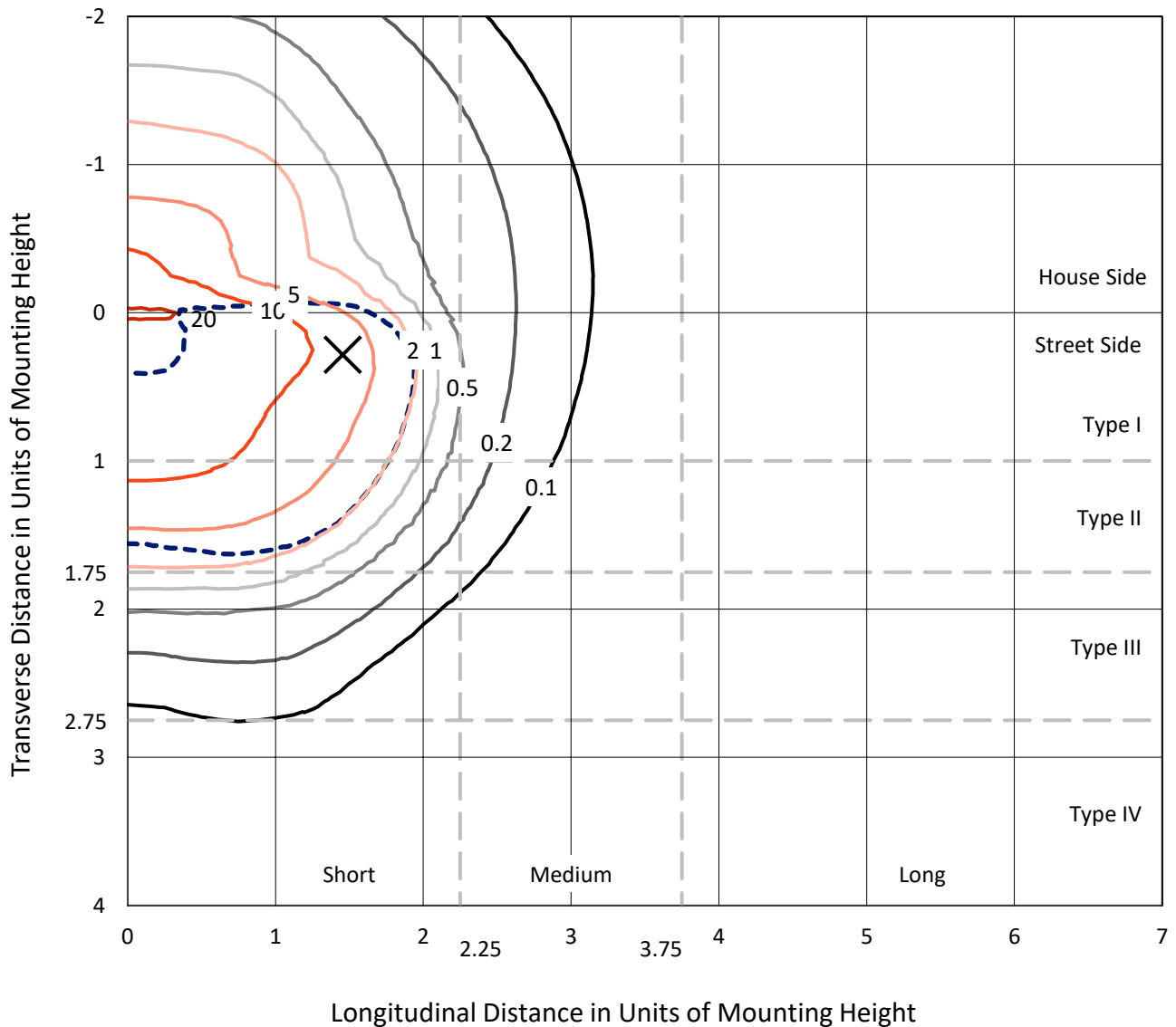
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

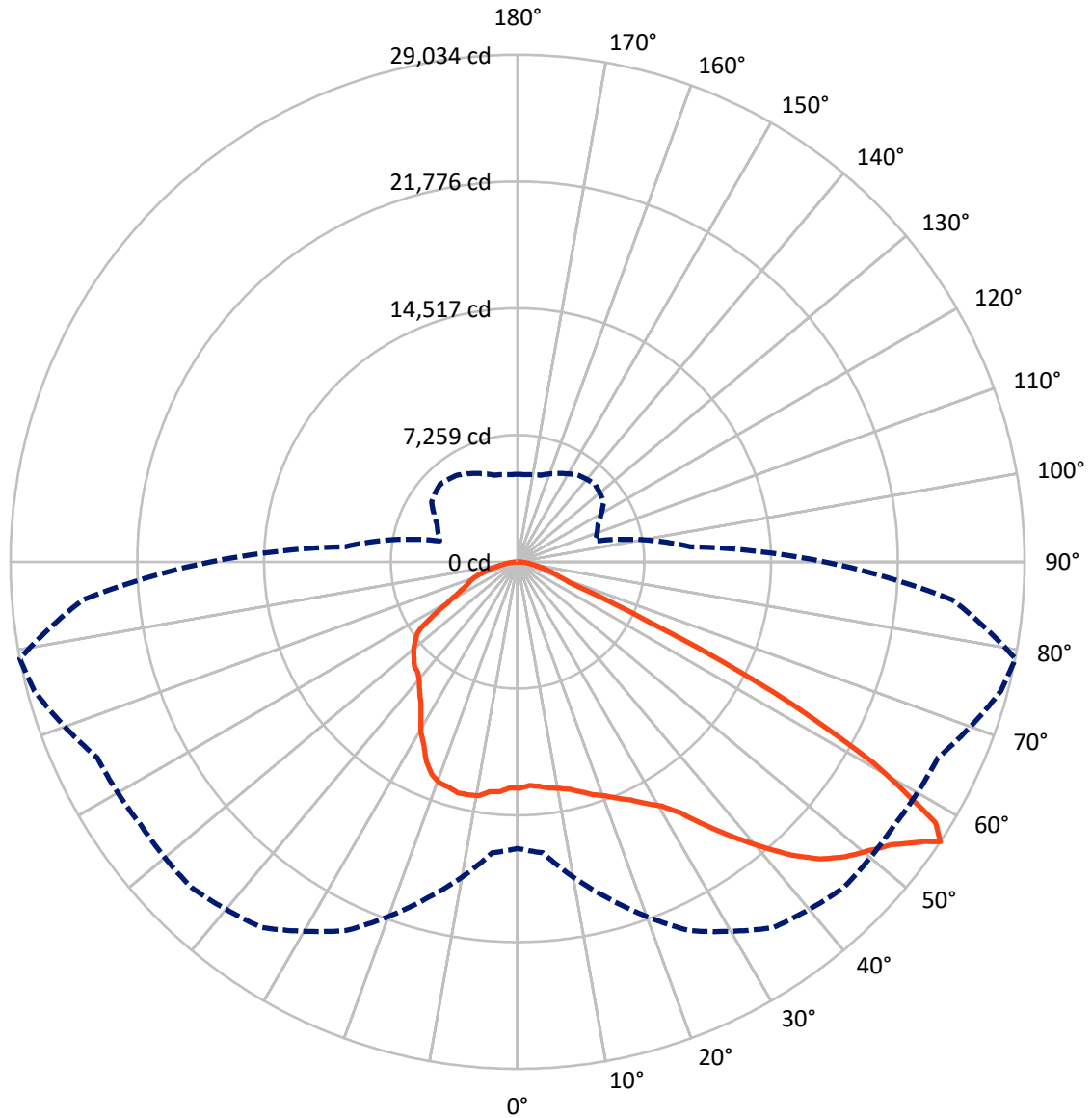
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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	14963.9	0.0	14963.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	35706.0	0.0	35706.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	50670.0	0.0	50670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.7	2.3
10°-20°	3225.8	6.4
20°-30°	5518.8	10.9
30°-40°	8458.2	16.7
40°-50°	11431.2	22.6
50°-60°	13129.1	25.9
60°-70°	5984.6	11.8
70°-80°	1475.5	2.9
80°-90°	268.2	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°	50670.0	100.0
0°-180°	50670.0	100.0

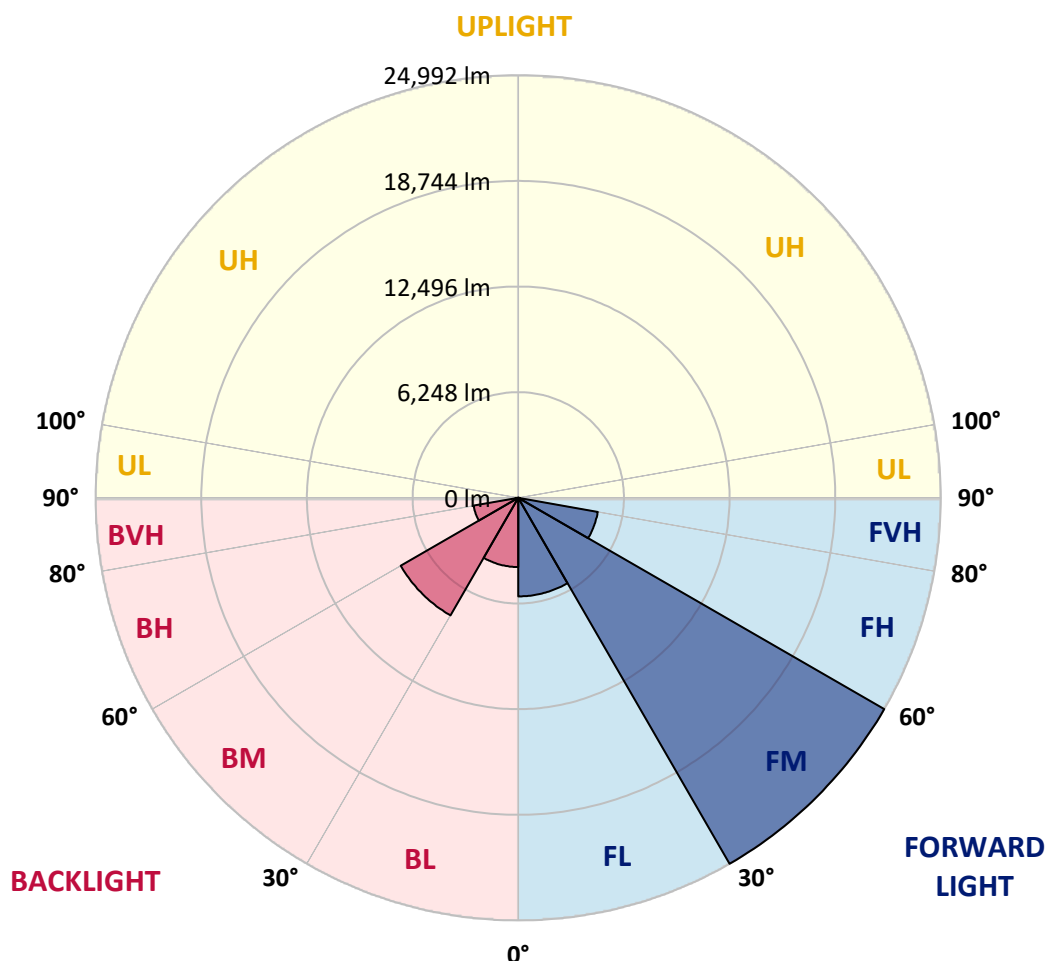


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5830.0	11.5			
FM (30°-60°)	24991.9	49.3			
FH (60°-80°)	4777.0	9.4			G2/5000
FVH (80°-90°)	107.1	0.2			G2/225
BL (0°-30°)	4093.3	8.1	B4/5000		
BM (30°-60°)	8026.5	15.8	B4/8500		
BH (60°-80°)	2683.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	161.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4
2.5°	12333.3	12301.7	12377.4	12434.3	12503.7	12592.1	12636.2	12661.5	12882.4	12825.6	12996.0
5°	12068.2	11986.1	12042.9	12087.1	12207.0	12314.3	12434.3	12623.6	12825.6	12914.0	13122.2
7.5°	11834.6	11790.5	11777.8	11809.4	11973.5	12112.4	12320.6	12598.4	12926.6	13071.7	13191.7
10°	11449.6	11386.5	11481.2	11689.5	11733.6	12024.0	12263.8	12661.5	12945.5	13198.0	13551.4
12.5°	11279.2	11216.1	11235.0	11354.9	11664.2	11941.9	12226.0	12674.1	13273.7	13374.7	13848.1
15°	11550.6	11487.5	11506.4	11474.9	11771.5	11916.7	12364.8	12926.6	13500.9	13671.4	14176.3
17.5°	12169.2	12175.5	12093.4	12024.0	11954.6	12263.8	12573.1	13078.1	13589.3	14018.5	14397.2
20°	13349.5	13141.2	12977.1	12585.7	12478.4	12611.0	13002.3	13488.3	13949.1	14302.5	14731.8
22.5°	14258.4	14277.3	14043.8	13400.0	13166.4	13223.2	13557.8	13955.4	14460.3	14712.8	15205.1
25°	15577.5	15445.0	15192.5	14681.3	14157.4	14201.6	14447.7	14807.5	14946.4	15123.1	15659.6
27.5°	16783.1	16821.0	16322.3	15842.6	15192.5	15066.3	15508.1	15571.2	15337.7	15672.2	15855.3
30°	18007.6	17976.0	17647.8	17086.1	16448.6	16473.8	16669.5	16360.2	16038.3	16221.3	16347.6
32.5°	19276.3	18916.5	18903.9	18398.9	17912.9	17679.4	17439.5	17591.0	17092.4	17130.2	17010.3
35°	20292.5	20342.9	20052.6	19692.8	19453.0	19042.7	18386.3	18657.7	18563.0	18518.8	18001.3
37.5°	21030.9	20835.3	20980.4	20860.5	20633.3	20122.0	19440.4	19699.1	19743.3	19957.9	19358.3
40°	21636.9	21554.8	21939.8	22003.0	21845.2	20740.6	19516.1	20286.1	20948.9	21416.0	20702.7
42.5°	21927.2	22103.9	22507.9	22993.9	22640.4	21460.1	19907.4	20734.3	22211.2	22949.7	21977.7
45°	22318.5	22091.3	22690.9	23580.9	23587.2	22066.1	20286.1	21340.2	23195.9	24268.9	22848.7
47.5°	21920.9	22034.5	22653.1	23782.9	24073.2	22703.6	21308.7	22198.6	24281.5	25234.6	23656.6
50°	21030.9	21258.2	22388.0	23562.0	24439.3	23378.9	22482.6	23126.5	25285.1	26010.9	23789.2
52.5°	20103.1	20229.3	21996.6	23732.4	24603.4	24250.0	24054.3	24407.7	26509.6	26888.3	23953.3
55°	17578.4	18178.0	20702.7	23656.6	25405.0	25821.6	25670.1	26187.7	27898.2	28276.9	24849.6
56°	16410.7	16726.3	19926.4	23303.2	25562.8	26396.0	26320.2	26553.8	28636.7	29034.3	24988.4
57.5°	14252.1	14277.3	16991.4	21737.9	24969.5	26566.4	26490.6	26673.7	28491.5	28220.1	23770.3
60°	8918.6	9309.9	11563.2	16720.0	21232.9	24647.6	25076.8	23606.1	24022.7	23448.4	18493.6
62.5°	4620.2	4563.4	6059.3	9777.0	14094.3	17647.8	18045.4	17976.0	17332.2	16492.7	12080.8
65°	2303.8	2316.4	3168.5	4841.2	7220.7	9240.5	10351.4	10471.3	8760.8	8060.2	5731.1
67.5°	1672.6	1735.7	2278.6	2960.2	3402.1	3806.0	4664.4	4576.1	3465.2	3294.8	3054.9
70°	1300.2	1357.0	1849.4	2259.6	2051.3	2051.3	2234.4	2310.1	2467.9	2537.3	2619.4
72.5°	946.8	991.0	1413.8	1559.0	1344.4	1445.4	1672.6	1849.4	2013.5	2038.7	2133.4
75°	650.1	688.0	927.8	858.4	807.9	997.3	1224.5	1388.6	1508.5	1571.6	1628.4
77.5°	422.9	435.5	530.2	448.1	517.6	643.8	795.3	934.1	1054.1	1104.6	1117.2
80°	189.4	208.3	227.2	284.0	359.8	460.8	568.1	681.7	757.4	776.4	814.2
82.5°	107.3	107.3	138.9	202.0	265.1	334.5	410.3	492.3	580.7	599.6	593.3
85°	56.8	56.8	82.1	119.9	164.1	195.7	189.4	195.7	208.3	239.8	233.5
87.5°	18.9	18.9	25.2	25.2	31.6	37.9	31.6	44.2	56.8	56.8	56.8
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°	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4	12964.4
2.5°	12945.5	13002.3	12926.6	13090.7	13090.7	13059.1	12901.3	12951.8	12989.7	12989.7	13021.3
5°	13191.7	13172.7	13223.2	13027.6	12907.6	12863.5	12604.7	12478.4	12371.1	12364.8	12270.1
7.5°	13330.5	13280.0	13261.1	13115.9	12585.7	12263.8	11708.4	11386.5	11317.1	11070.9	11165.6
10°	13551.4	13646.1	13551.4	12762.5	12024.0	11285.5	10742.7	10244.1	10048.4	9890.6	9795.9
12.5°	14005.9	13961.7	13412.6	12345.9	11310.8	10433.4	9625.5	9101.6	8906.0	8767.1	8754.5
15°	14390.9	14170.0	13330.5	11689.5	10199.9	9265.7	8603.0	8230.6	8142.2	8154.9	8211.7
17.5°	14523.5	14372.0	12901.3	11007.8	9373.0	8274.8	7965.5	7908.7	7990.7	8085.4	8110.7
20°	14731.8	14491.9	12724.6	10080.0	8350.5	7656.2	7637.3	7839.3	7990.7	8129.6	8148.5
22.5°	15167.3	14561.3	12150.2	9202.6	7649.9	7473.2	7656.2	7826.6	8060.2	8173.8	8072.8
25°	15293.5	14409.8	11342.3	8148.5	7208.1	7359.6	7555.2	7788.8	7952.9	8016.0	8060.2
27.5°	15400.8	14176.3	10250.4	7447.9	7069.2	7353.3	7555.2	7750.9	7839.3	7896.1	7946.6
30°	15703.8	14106.9	9303.6	6980.9	6980.9	7227.0	7485.8	7536.3	7656.2	7725.6	7814.0
32.5°	15855.3	13627.2	8331.6	6684.2	6892.5	7290.1	7309.1	7403.7	7410.1	7466.9	7372.2
35°	16252.9	13286.3	7429.0	6469.6	6930.4	7227.0	7321.7	7264.9	6955.6	6804.1	6835.7
37.5°	16543.2	13115.9	6778.9	6444.4	6936.7	7296.4	7346.9	6917.7	6595.8	6343.4	6406.5
40°	17325.9	12693.0	6286.6	6400.2	6993.5	7372.2	7233.3	6766.3	6185.6	5926.8	5882.6
42.5°	17925.5	12390.1	5977.3	6349.7	7037.7	7479.5	7176.5	6463.3	5870.0	5630.1	5693.2
45°	18619.8	12320.6	5813.2	6362.3	7113.4	7536.3	7107.1	6229.8	5598.6	5503.9	5485.0
47.5°	18866.0	11822.0	5636.4	6255.0	7094.5	7517.4	6873.6	6053.0	5497.6	5510.2	5560.7
50°	18455.7	11310.8	5503.9	6034.1	6968.2	7346.9	6507.5	5819.5	5440.8	5598.6	5686.9
52.5°	17931.8	10786.9	5232.5	5737.4	6709.4	7081.8	6337.1	5806.9	5384.0	5333.5	5352.4
55°	18089.6	10357.7	4853.8	5333.5	6292.9	6589.5	6147.7	5686.9	5245.1	5055.8	5118.9
56°	17578.4	9915.8	4607.6	5081.0	6008.8	6273.9	6053.0	5579.6	5131.5	5005.3	5005.3
57.5°	16133.0	8432.6	4285.7	4677.0	5409.2	5724.8	5870.0	5516.5	5005.3	4784.3	4790.7
60°	11897.8	5996.2	3843.9	4121.6	4481.4	4733.9	5409.2	5339.8	4689.7	4538.2	4481.4
62.5°	7334.3	4380.4	3528.3	3635.6	3818.6	4026.9	4721.2	4834.8	4355.1	4191.0	4153.2
65°	4109.0	3351.6	3288.5	3332.6	3421.0	3528.3	3919.6	4172.1	3843.9	3591.4	3578.8
67.5°	3004.4	2998.1	3048.6	3086.5	3124.3	3124.3	3219.0	3320.0	3275.8	3073.8	3054.9
70°	2669.9	2688.8	2726.7	2733.0	2745.6	2701.5	2625.7	2594.2	2644.6	2518.4	2493.2
72.5°	2202.8	2265.9	2310.1	2316.4	2247.0	2190.2	2089.2	1981.9	1944.0	1918.8	1912.5
75°	1691.6	1735.7	1754.7	1748.4	1723.1	1641.1	1521.1	1413.8	1344.4	1268.7	1306.5
77.5°	1142.4	1205.6	1237.1	1237.1	1199.2	1073.0	1016.2	934.1	864.7	782.7	795.3
80°	801.6	845.8	896.3	890.0	826.8	763.7	681.7	605.9	549.1	486.0	479.7
82.5°	599.6	624.9	650.1	637.5	593.3	530.2	473.4	404.0	340.8	296.7	296.7
85°	214.6	233.5	284.0	296.7	321.9	321.9	271.4	227.2	183.0	151.5	151.5
87.5°	63.1	63.1	69.4	69.4	63.1	69.4	56.8	63.1	69.4	44.2	44.2
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)