

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: P650919

Luminaire Tested: **GALN-SA5C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24836.4 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

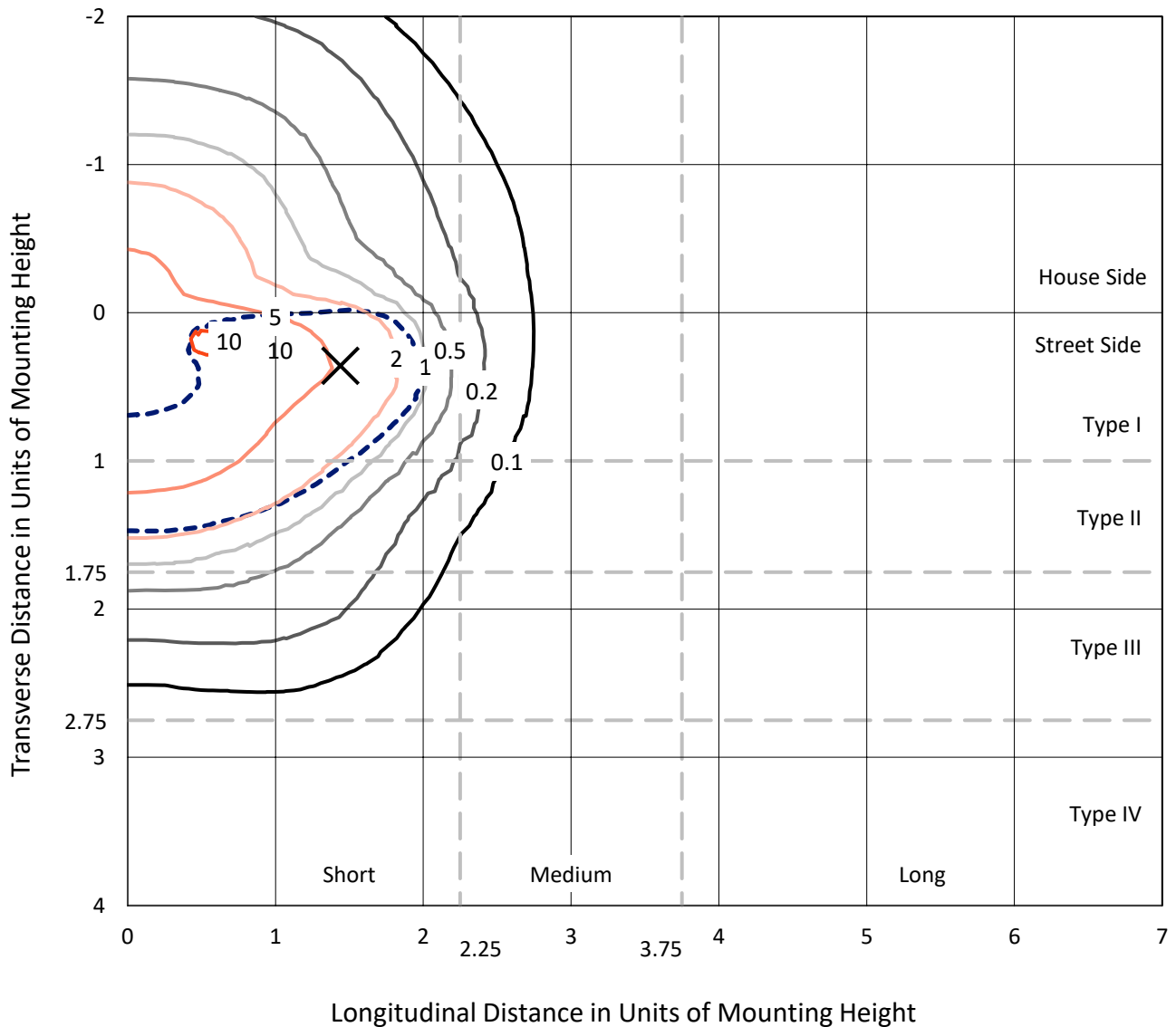
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

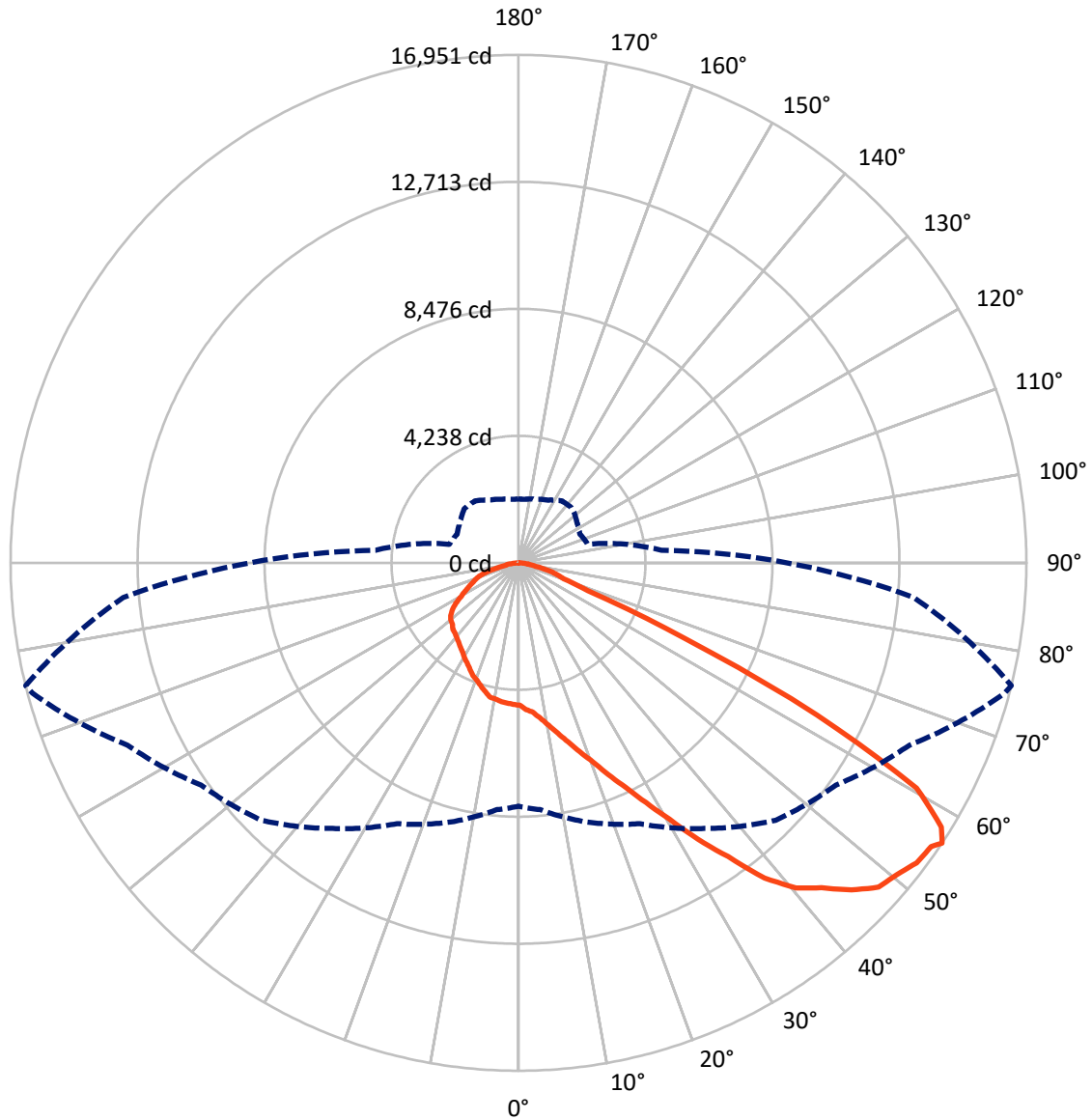
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6677.8	0.0	6677.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18158.6	0.0	18158.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	24836.4	0.0	24836.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.3	1.9
10°-20°	1480.4	6.0
20°-30°	2589.0	10.4
30°-40°	4053.7	16.3
40°-50°	5896.9	23.7
50°-60°	6481.1	26.1
60°-70°	2892.9	11.6
70°-80°	835.6	3.4
80°-90°	135.5	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°	24836.4	100.0
0°-180°	24836.4	100.0

Coefficient of Utilization

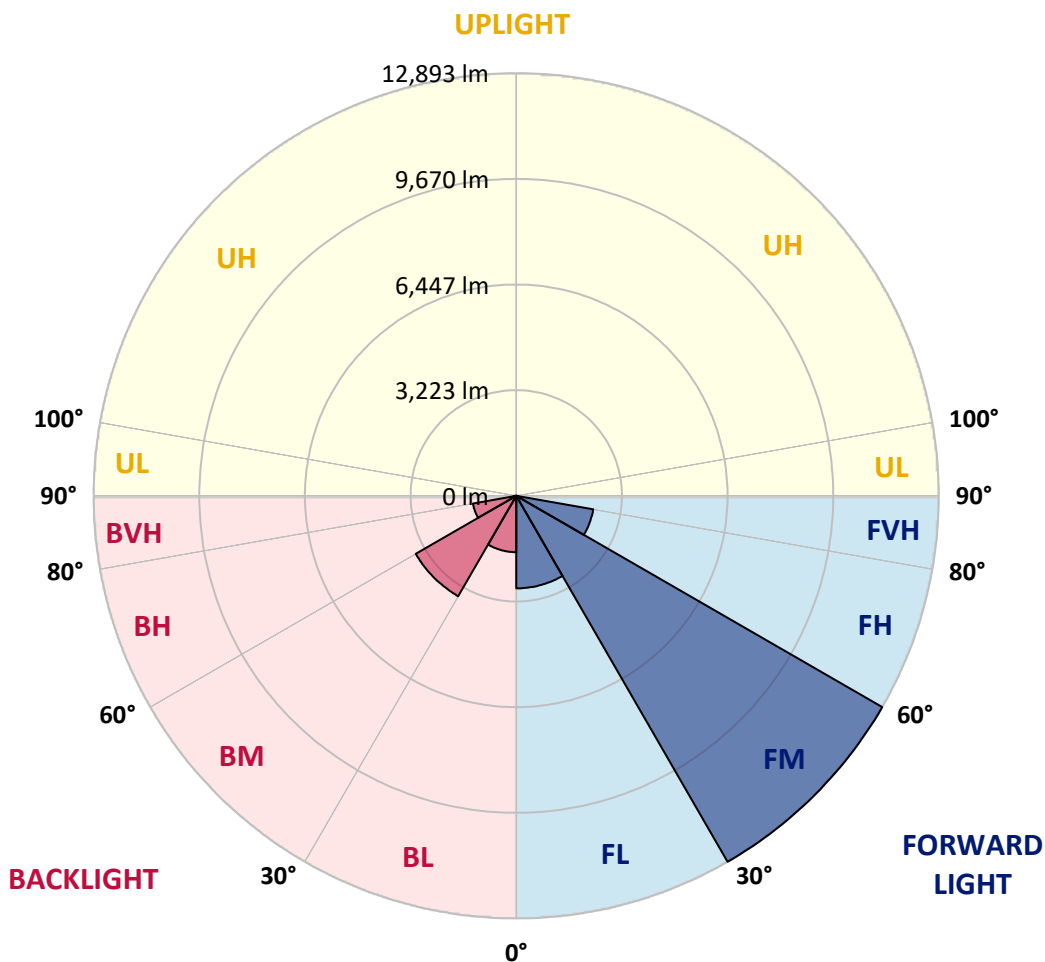


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.4	11.4			
FM (30°-60°)	12893.0	51.9			
FH (60°-80°)	2384.9	9.6			G2/5000
FVH (80°-90°)	58.3	0.2			G1/100
BL (0°-30°)	1718.3	6.9	B3/2500		
BM (30°-60°)	3538.7	14.2	B3/5000		
BH (60°-80°)	1343.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	77.2	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°	76°	85°
0°	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2
2.5°	5235.1	5151.4	5144.9	5122.4	5135.2	5077.3	5016.1	4935.7	4851.9	4903.5	4781.1
5°	5602.1	5489.4	5534.5	5457.2	5466.9	5389.6	5264.1	5170.6	5067.6	5006.5	4919.5
7.5°	5730.9	5740.6	5772.7	5759.8	5695.5	5695.5	5611.7	5447.6	5267.3	5231.9	5087.0
10°	5904.7	5907.9	5872.5	5882.2	5972.4	5930.5	5856.5	5785.7	5553.8	5511.9	5254.4
12.5°	5965.9	5907.9	5965.9	6017.4	6123.7	6181.6	6165.5	6114.0	5866.1	5837.1	5460.4
15°	5975.6	5940.2	5988.4	6104.4	6197.7	6442.4	6564.8	6529.4	6200.9	6204.1	5692.2
17.5°	5930.5	5978.8	5998.1	6097.9	6313.6	6542.2	6896.4	6944.6	6674.3	6632.4	5985.2
20°	5991.7	5956.3	5982.0	6072.2	6358.7	6716.1	7179.7	7498.4	7118.6	7089.5	6287.9
22.5°	6226.7	6178.4	6171.9	6230.0	6436.0	6806.2	7479.1	8052.2	7659.4	7675.6	6664.6
25°	6410.2	6436.0	6413.5	6410.2	6539.0	6941.4	7875.1	8712.3	8393.5	8300.2	7108.9
27.5°	6725.7	6787.0	6741.9	6803.0	6774.0	7144.3	8158.5	9443.1	9185.5	9059.9	7511.3
30°	7163.6	7195.8	7154.0	7154.0	7067.0	7427.6	8416.1	10206.1	10099.9	9929.3	7984.6
32.5°	7739.9	7788.2	7704.5	7656.2	7643.3	7849.4	8879.6	10959.5	11139.8	10994.9	8612.4
35°	8502.9	8474.0	8374.2	8329.1	8155.3	8496.5	9568.6	11825.6	12298.9	12041.3	9372.3
37.5°	9175.9	9130.8	9124.3	8873.2	8915.1	9195.2	10154.7	12482.4	13422.5	13348.4	10173.9
40°	9803.7	9845.5	9913.1	9771.5	9707.1	10016.1	10837.2	12984.6	14295.0	14266.1	10792.1
42.5°	10476.6	10437.9	10557.1	10437.9	10341.4	10779.2	11577.7	13332.4	15061.3	14823.0	11439.2
45°	11452.1	11329.8	11371.7	11381.3	11310.4	11471.4	11883.6	13583.5	15599.0	15573.2	11912.5
47.5°	12266.7	12269.9	12199.0	12144.3	11928.6	12089.6	12224.9	13741.3	16217.1	16175.3	12096.0
50°	12569.3	12527.5	12733.5	12852.7	12865.5	12537.1	12492.0	13828.1	16542.3	16358.8	12279.5
52.5°	11481.1	11519.8	11844.9	12553.2	12962.1	12997.5	12804.3	14008.5	16674.3	16635.7	12427.6
55°	9240.2	9427.0	9961.5	10779.2	11748.3	12814.0	13142.4	14195.2	16745.2	16712.9	13084.4
56°	8123.1	8268.0	8963.4	9604.1	10821.1	12147.6	12929.9	14394.8	16799.9	16951.2	13239.0
57.5°	6539.0	6706.4	7205.4	7933.1	9369.0	10879.0	12343.9	14150.2	16587.4	16645.3	13351.7
60°	4088.9	4105.0	4703.8	5183.6	6194.5	7669.1	9420.5	12311.7	15351.0	15267.3	11993.0
62.5°	2681.9	2685.1	3229.3	3622.0	4082.5	4420.5	5544.1	8164.9	11326.6	11178.5	8538.3
65°	1883.5	1925.3	2347.1	2871.8	3058.6	2881.5	2846.1	4304.6	6326.5	6114.0	4587.9
67.5°	1378.0	1381.2	1754.7	2318.1	2588.6	2192.6	1780.4	2102.4	2504.8	2498.4	2125.0
70°	911.1	949.7	1236.4	1732.1	2041.2	1761.1	1455.3	1503.5	1593.7	1593.7	1580.8
72.5°	531.3	566.7	756.6	1097.8	1146.2	1101.1	1152.6	1287.8	1345.8	1342.6	1326.5
75°	302.7	318.7	360.6	457.2	569.9	672.9	846.7	975.6	1033.5	1068.9	1027.0
77.5°	177.1	186.7	212.5	260.8	296.2	363.8	460.4	550.5	627.8	618.1	624.6
80°	93.4	93.4	119.1	154.6	206.0	257.6	305.9	357.3	399.2	408.9	418.6
82.5°	54.7	57.9	77.3	112.7	148.1	183.5	235.1	270.5	309.1	312.3	318.7
85°	29.0	32.2	48.3	74.1	99.8	112.7	115.9	109.5	119.1	112.7	128.8
87.5°	9.7	9.7	16.1	12.9	12.9	16.1	19.3	19.3	25.7	25.7	25.7
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°	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2
2.5°	4777.9	4777.9	4723.1	4620.1	4604.1	4562.2	4523.6	4520.3	4491.4	4465.6	4452.7
5°	4868.0	4768.2	4687.7	4594.4	4484.9	4433.4	4375.5	4311.1	4285.3	4311.1	4307.9
7.5°	4971.1	4887.4	4645.9	4472.0	4346.5	4295.0	4230.6	4163.0	4169.3	4169.3	4124.3
10°	5070.9	4958.2	4571.8	4349.7	4166.1	4127.5	4092.1	4117.9	4150.1	4156.5	4127.5
12.5°	5238.3	4983.9	4536.4	4227.4	4111.4	4027.7	4050.3	4121.1	4188.7	4169.3	4191.9
15°	5363.8	5006.5	4375.5	4101.8	3956.9	3995.5	4076.0	4124.3	4237.0	4224.1	4246.6
17.5°	5486.2	5019.3	4217.7	3934.4	3873.1	3979.4	4040.6	4179.0	4214.4	4291.7	4320.7
20°	5737.3	5045.1	4056.7	3831.3	3812.0	3934.4	4040.6	4105.0	4182.3	4249.9	4249.9
22.5°	5866.1	5032.2	3950.4	3696.1	3757.3	3834.5	3931.2	4040.6	4040.6	4105.0	4108.2
25°	6027.1	4980.7	3783.1	3631.7	3676.8	3750.9	3860.3	3821.7	3863.6	3863.6	3915.0
27.5°	6210.6	4871.2	3638.2	3515.8	3606.0	3686.4	3702.5	3676.8	3628.5	3622.0	3602.8
30°	6358.7	4736.0	3531.9	3477.2	3551.2	3596.3	3544.8	3490.1	3406.3	3399.9	3354.8
32.5°	6561.6	4568.6	3399.9	3380.6	3464.2	3467.5	3451.4	3367.7	3245.3	3193.9	3142.3
35°	6902.8	4472.0	3300.1	3329.1	3354.8	3345.2	3316.1	3226.1	3103.7	3081.2	3061.8
37.5°	7154.0	4401.2	3197.1	3232.5	3255.0	3267.9	3181.0	3081.2	3084.4	3039.3	3026.4
40°	7437.3	4356.1	3113.4	3129.4	3132.6	3174.5	3068.3	3019.9	3042.5	3013.6	3032.9
42.5°	7801.1	4369.0	3026.4	3013.6	3074.7	3058.6	3007.1	2942.7	2955.6	2868.7	2881.5
45°	7994.3	4456.0	2974.9	2916.9	2984.5	2981.3	2913.7	2852.6	2775.3	2607.9	2614.3
47.5°	8123.1	4478.5	2852.6	2813.9	2884.8	2926.6	2849.3	2707.7	2598.2	2479.1	2450.1
50°	8255.1	4520.3	2794.6	2714.2	2743.1	2842.9	2746.3	2611.1	2504.8	2398.6	2414.7
52.5°	8371.0	4600.8	2681.9	2562.8	2614.3	2723.7	2672.3	2508.0	2392.1	2305.3	2279.4
55°	8886.1	4781.1	2492.0	2337.4	2459.8	2598.2	2569.3	2369.6	2244.0	2199.0	2192.6
56°	8966.6	4787.6	2392.1	2260.2	2372.9	2556.4	2521.0	2308.5	2195.8	2125.0	2128.2
57.5°	8979.4	4710.3	2250.5	2189.3	2285.9	2495.2	2450.1	2260.2	2105.6	2041.2	2021.9
60°	7900.9	3676.8	2073.4	2034.8	2147.5	2308.5	2292.3	2128.2	1954.3	1880.2	1915.6
62.5°	5386.4	2694.8	1935.0	1928.6	1986.5	2144.2	2102.4	1954.3	1809.4	1761.1	1738.6
65°	3135.9	2044.5	1799.7	1774.0	1822.3	1906.0	1935.0	1780.4	1629.1	1596.9	1587.3
67.5°	1851.3	1690.3	1625.9	1584.0	1568.0	1619.4	1642.0	1551.8	1400.5	1355.4	1394.1
70°	1548.6	1503.5	1506.7	1435.9	1397.3	1361.9	1342.6	1262.1	1136.5	1078.6	1062.4
72.5°	1336.1	1316.8	1304.0	1239.5	1204.1	1123.7	1039.9	959.4	866.1	817.8	821.0
75°	1020.6	1014.2	1020.6	988.4	927.3	862.9	785.6	682.6	611.7	550.5	563.5
77.5°	608.5	627.8	637.5	624.6	598.9	540.9	492.6	425.0	357.3	309.1	302.7
80°	418.6	434.6	450.8	434.6	408.9	367.0	315.5	264.0	215.7	190.0	183.5
82.5°	318.7	334.8	344.5	328.4	296.2	251.1	215.7	180.3	141.6	115.9	109.5
85°	115.9	132.0	128.8	154.6	167.4	161.0	138.4	106.2	80.5	57.9	54.7
87.5°	32.2	29.0	32.2	32.2	32.2	29.0	25.7	25.7	25.7	16.1	12.9
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)