

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: P647193

Luminaire Tested: **GALN-SA9C-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49488 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

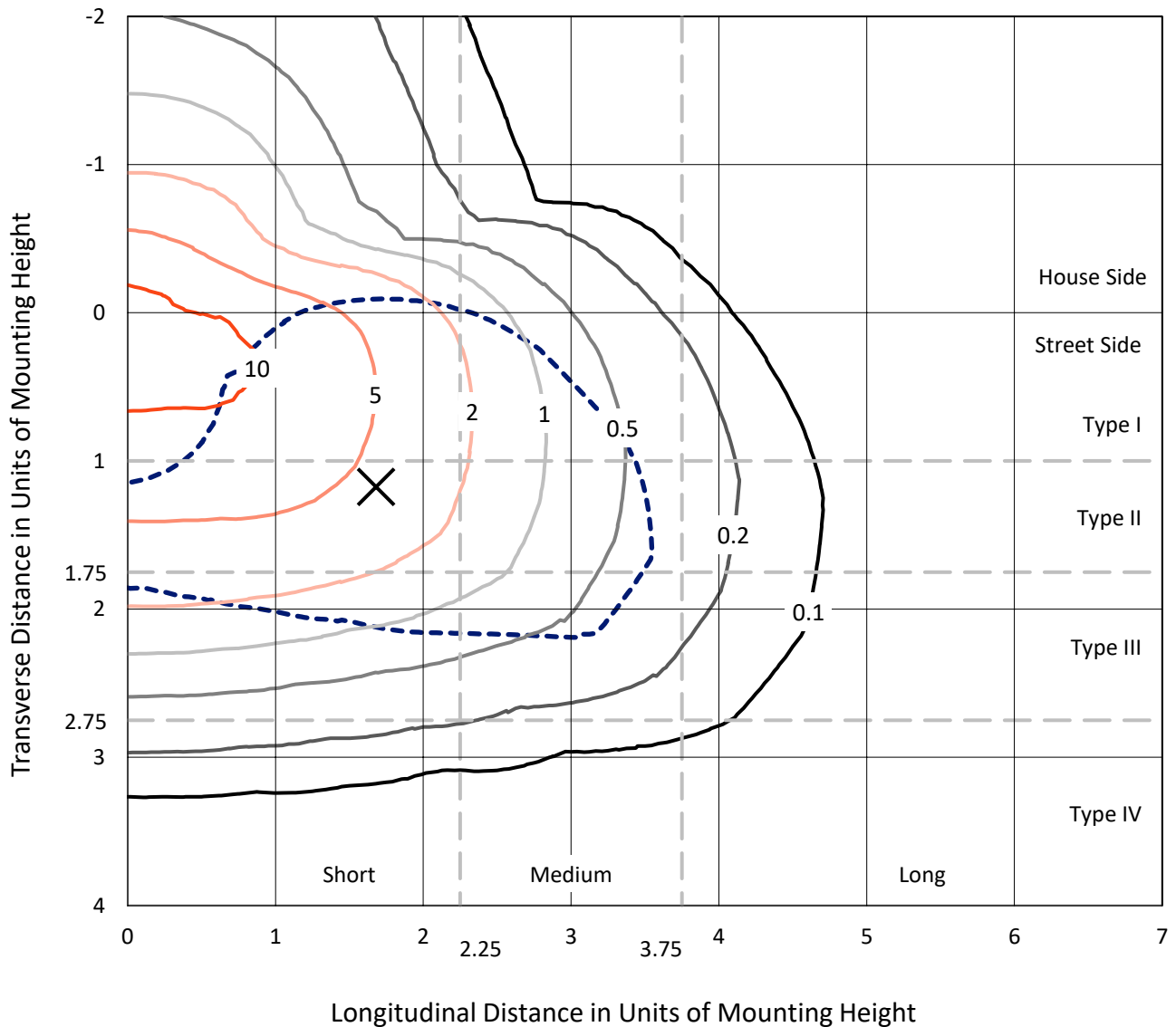
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

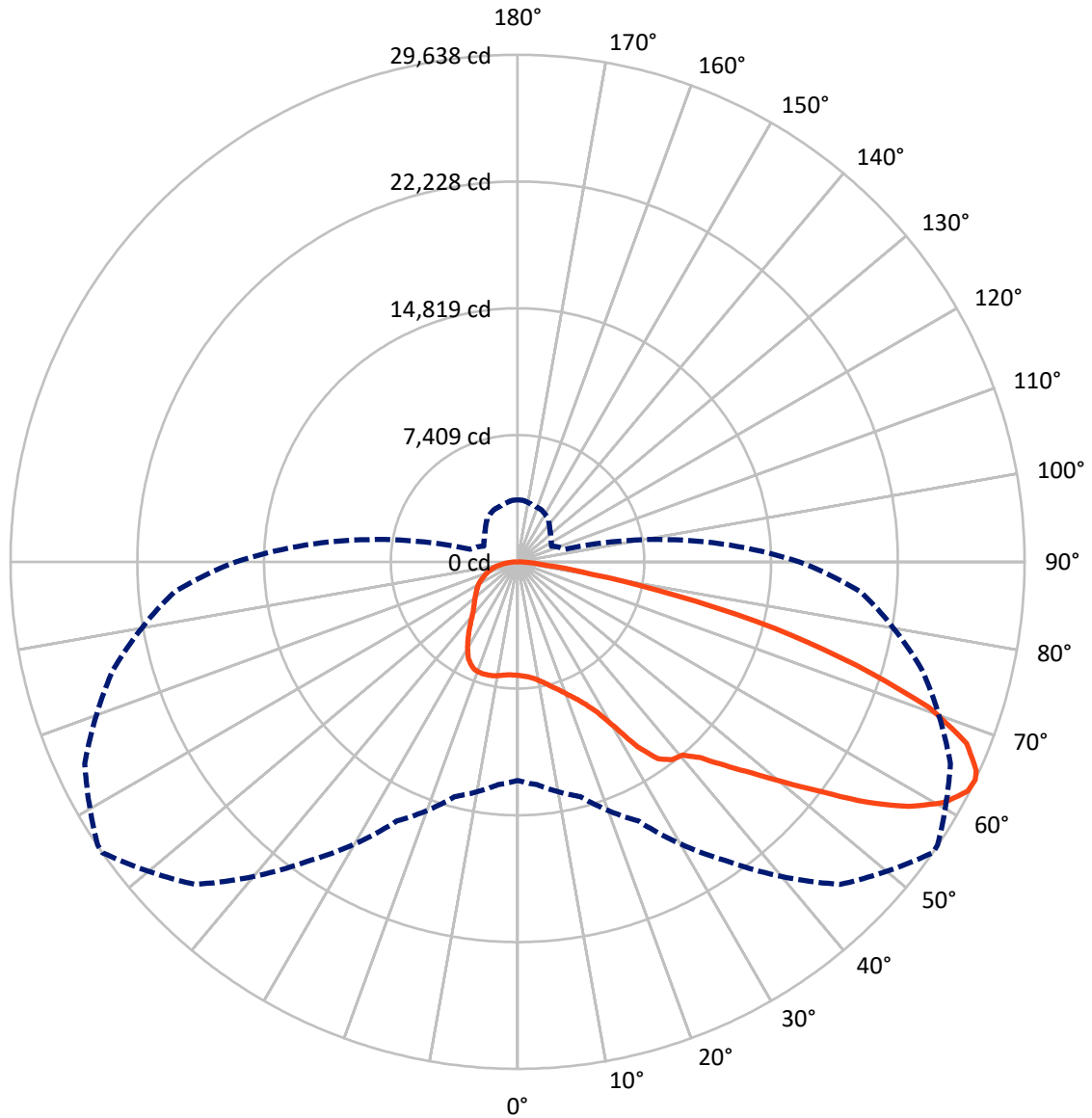
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12021.6	0.0	12021.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	37466.4	0.0	37466.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	49488.0	0.0	49488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.9	1.3
10°-20°	2037.9	4.1
20°-30°	3628.1	7.3
30°-40°	5582.2	11.3
40°-50°	7913.1	16.0
50°-60°	11454.1	23.1
60°-70°	11853.8	24.0
70°-80°	5551.1	11.2
80°-90°	821.8	1.7
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°	49488.0	100.0
0°-180°	49488.0	100.0

Coefficient of Utilization

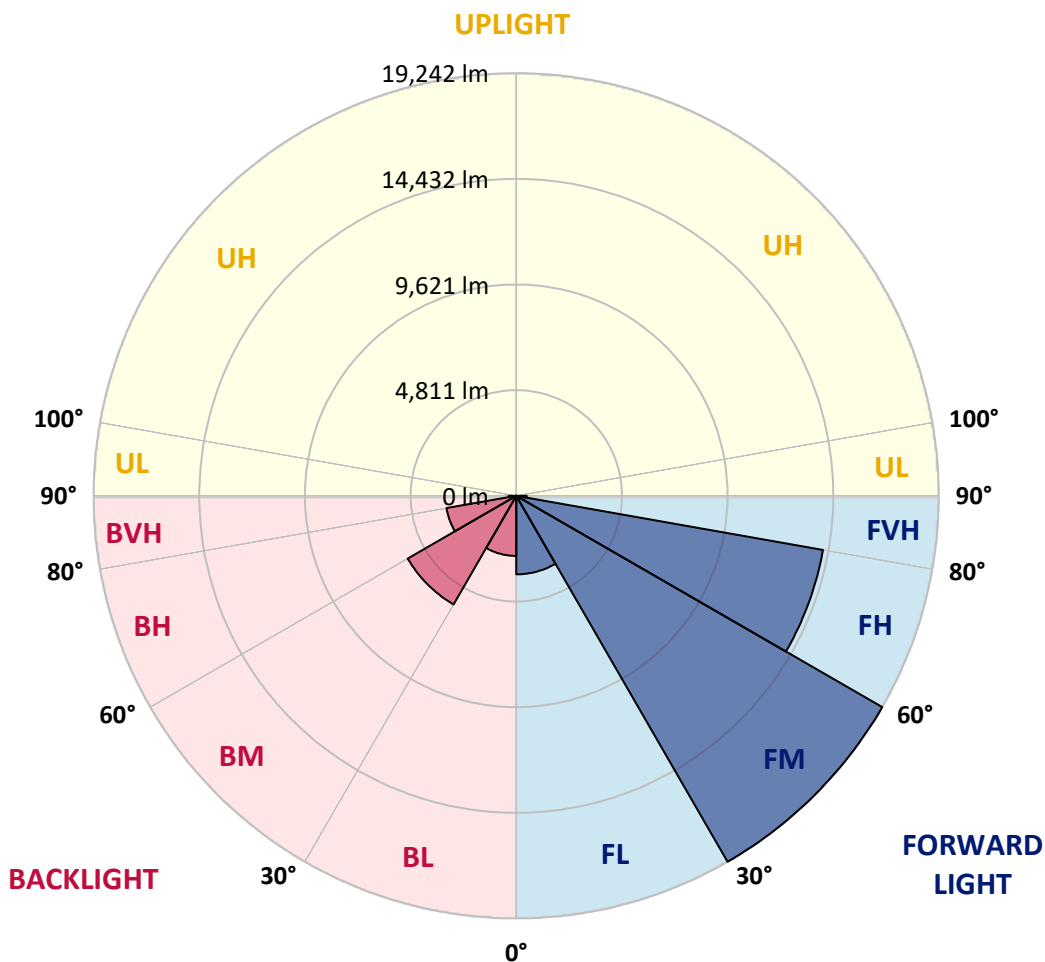


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3573.8	7.2			
FM (30°-60°)	19242.3	38.9			
FH (60°-80°)	14179.7	28.7			G5
FVH (80°-90°)	470.5	1.0			G3/500
BL (0°-30°)	2738.1	5.5	B4/5000		
BM (30°-60°)	5707.1	11.5	B4/8500		
BH (60°-80°)	3225.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	351.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8
2.5°	6714.3	6711.5	6719.8	6711.5	6717.0	6697.7	6689.4	6695.0	6686.7	6672.9	6648.1
5°	6797.0	6794.2	6797.0	6786.0	6791.5	6780.5	6761.1	6766.7	6752.9	6722.5	6686.7
7.5°	6937.7	6926.7	6926.7	6923.9	6912.9	6896.4	6882.6	6877.0	6863.2	6824.6	6769.4
10°	7119.7	7119.7	7122.6	7100.5	7114.3	7083.9	7070.1	7067.4	7020.5	6970.8	6893.6
12.5°	7359.7	7373.6	7365.3	7354.2	7348.8	7337.7	7290.8	7301.9	7249.4	7163.9	7070.1
15°	7657.7	7679.7	7666.0	7660.5	7646.6	7605.3	7585.9	7577.7	7508.7	7384.6	7260.4
17.5°	8052.1	8024.6	8013.5	7999.8	7941.8	7911.5	7878.4	7872.8	7812.1	7666.0	7472.9
20°	8397.0	8435.6	8413.5	8399.7	8341.8	8283.9	8259.1	8250.8	8198.3	8038.4	7729.4
22.5°	8808.0	8816.3	8824.6	8791.4	8763.9	8719.7	8675.6	8661.8	8642.5	8477.0	8099.0
25°	9246.6	9279.7	9252.1	9219.0	9185.9	9183.2	9224.5	9219.0	9210.7	9050.8	8590.1
27.5°	9961.1	9991.4	9999.7	9963.8	9836.9	9847.9	9941.8	9972.1	10099.0	9834.2	9221.8
30°	10363.8	10394.2	10463.2	10598.3	10799.7	10976.2	11202.4	11271.4	11392.7	10893.4	9972.1
32.5°	10612.1	10623.1	10747.2	10998.3	11602.4	12261.7	12876.8	12901.6	12978.9	12278.2	10659.0
35°	11003.8	11012.0	11111.4	11387.2	12096.2	13194.1	14145.8	14176.1	14112.6	12708.6	10979.0
37.5°	11486.5	11508.6	11572.0	11801.0	12647.9	13974.7	14672.6	14650.6	14087.8	13050.7	11544.5
40°	12190.0	12190.0	12115.5	12424.4	13230.0	14421.6	14857.4	14818.8	14669.9	14040.9	12405.1
42.5°	12810.7	12799.6	12976.1	13185.8	13958.1	15111.3	15632.6	15696.0	15941.6	15285.0	13384.4
45°	13618.9	13668.5	13767.8	14148.5	15196.8	16289.1	16962.2	17022.9	17370.5	16749.8	14529.2
47.5°	14435.4	14452.0	14763.7	15271.2	16730.5	17886.3	18438.0	18537.4	18854.6	18462.8	15762.3
50°	15014.7	15172.0	15671.2	16471.2	18311.2	19833.9	20264.2	20382.8	20942.7	20327.6	17199.5
52.5°	15627.1	15781.6	16391.2	17610.5	20126.2	21825.5	22355.1	22435.1	23017.2	22214.5	18669.8
55°	16151.2	16294.6	16987.0	18620.1	21571.7	23858.6	24818.5	24724.7	25003.4	23668.2	19803.5
57.5°	16236.8	16352.6	17224.3	19265.6	22658.6	25601.9	26978.4	27033.6	26710.9	24755.1	20738.6
60°	15574.7	15811.9	16813.3	19196.7	23146.9	26815.7	28589.4	28628.0	27712.2	25312.3	21111.1
62.5°	14402.3	14377.4	15588.4	18087.7	22462.7	27091.6	29538.4	29497.0	28103.9	25044.7	20749.7
64°	12783.0	13081.0	14212.0	16725.0	21359.3	26666.7	29637.6	29615.6	27916.4	24487.5	20134.5
65°	11795.5	11778.9	12896.2	15610.5	20261.5	26026.8	29461.2	29430.8	27524.6	23988.2	19657.3
67.5°	8515.6	8554.2	9657.6	12046.5	16471.2	23524.8	28310.9	28197.7	25979.9	22333.1	17842.2
70°	5158.5	5180.6	6046.7	7991.5	11823.1	19017.3	25519.2	25524.7	23615.8	19861.4	15185.7
72.5°	2717.2	2775.1	3122.7	4537.8	7180.4	13343.0	20702.8	21193.8	20275.2	16951.2	11996.9
75°	1511.7	1520.0	1765.4	2237.2	3663.3	7467.3	15560.9	15701.6	16051.9	13643.7	8871.5
77.5°	1153.0	1169.6	1246.8	1445.5	1994.5	3462.0	9417.6	10123.8	11312.7	9619.0	5061.9
80°	935.1	951.7	1017.9	1136.5	1326.9	1641.3	4375.0	4755.7	6055.0	4270.2	1975.1
82.5°	728.3	717.2	802.7	879.9	965.5	971.0	1795.8	1986.2	2466.1	1837.2	855.1
85°	540.7	540.7	609.6	593.1	623.4	568.2	791.7	874.5	987.5	780.7	397.2
87.5°	215.2	237.2	400.0	358.6	278.6	223.5	292.4	309.0	342.1	306.2	165.5
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°	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8	6639.8
2.5°	6650.8	6659.1	6639.8	6626.0	6620.5	6612.2	6603.9	6606.7	6617.8	6628.7	6626.0
5°	6683.9	6686.7	6653.6	6637.0	6626.0	6614.9	6614.9	6623.2	6645.3	6661.8	6661.8
7.5°	6766.7	6766.7	6719.8	6689.4	6672.9	6653.6	6648.1	6650.8	6667.4	6689.4	6692.2
10°	6896.4	6885.3	6824.6	6777.7	6747.3	6700.4	6659.1	6637.0	6645.3	6659.1	6659.1
12.5°	7053.6	7023.2	6946.0	6882.6	6808.0	6719.8	6634.3	6590.1	6587.4	6601.2	6595.7
15°	7221.8	7188.7	7081.1	6965.3	6835.7	6706.0	6603.9	6540.5	6490.8	6477.1	6507.4
17.5°	7417.7	7348.8	7199.8	7039.8	6846.7	6678.4	6518.4	6388.7	6300.5	6275.7	6284.0
20°	7654.9	7563.9	7362.5	7111.5	6838.4	6579.1	6330.9	6157.0	6013.6	5969.4	5975.0
22.5°	7983.2	7825.9	7530.8	7147.4	6769.4	6391.6	6046.7	5820.5	5646.7	5577.8	5619.1
25°	8355.6	8184.5	7690.8	7139.1	6590.1	6090.9	5710.2	5415.0	5257.8	5155.7	5177.7
27.5°	8868.6	8565.2	7861.8	7064.6	6333.6	5724.0	5282.6	5004.0	4860.6	4808.1	4832.9
30°	9525.2	9059.0	8046.7	6863.2	5928.1	5260.5	4852.3	4670.2	4584.7	4518.5	4540.5
32.5°	9999.7	9406.6	8088.0	6524.0	5489.5	4838.5	4559.9	4424.7	4330.9	4267.4	4281.2
35°	10339.0	9701.8	8068.7	6107.4	5031.6	4490.9	4328.1	4217.8	4066.0	3928.2	3903.3
37.5°	10794.1	10071.4	7928.0	5652.2	4579.1	4256.4	4140.6	3936.5	3718.5	3533.7	3525.4
40°	11492.0	10504.5	7627.4	5117.1	4193.0	4082.6	3941.9	3677.1	3442.6	3293.7	3282.6
42.5°	12212.1	10904.4	7219.1	4554.3	3875.8	3900.6	3729.5	3467.4	3324.1	3227.4	3216.5
45°	13092.0	11337.6	6777.7	4066.0	3641.3	3729.5	3544.7	3393.0	3307.5	3244.0	3227.4
47.5°	14043.7	11781.7	6281.1	3627.5	3442.6	3572.3	3467.4	3398.5	3351.6	3307.5	3288.2
50°	15069.9	12278.2	5814.9	3274.3	3263.3	3409.6	3459.2	3434.4	3406.8	3393.0	3376.5
52.5°	16195.3	12785.8	5423.3	3026.1	3106.1	3293.7	3462.0	3481.3	3481.3	3473.0	3462.0
55°	16956.7	13138.9	5026.1	2824.8	2946.1	3199.9	3456.5	3530.9	3558.5	3547.5	3536.4
57.5°	17519.5	13332.0	4526.8	2650.9	2811.0	3108.9	3426.1	3536.4	3564.1	3577.8	3572.3
60°	17635.3	13152.7	3873.0	2468.9	2664.7	2976.5	3315.8	3453.7	3489.5	3575.0	3583.3
62.5°	17114.0	12601.0	3222.0	2289.6	2485.5	2775.1	3166.8	3359.9	3431.7	3564.1	3577.8
64°	16473.9	11983.0	2860.6	2176.5	2369.6	2662.0	3092.3	3335.0	3428.8	3605.4	3616.4
65°	16005.0	11533.4	2634.4	2104.8	2295.1	2587.5	3051.0	3343.3	3453.7	3668.8	3685.4
67.5°	14278.2	9985.9	2179.2	1936.5	2118.6	2460.6	3059.2	3412.3	3448.2	3693.6	3690.9
70°	11814.8	7950.1	1826.1	1782.0	1947.6	2358.6	3026.1	3302.0	3304.7	3467.4	3428.8
72.5°	8846.6	5875.7	1583.4	1622.0	1757.2	2115.8	2857.9	3153.0	3106.1	3128.2	3089.6
75°	6077.0	3886.8	1362.7	1451.0	1558.6	1870.3	2620.6	2863.4	2788.9	2761.3	2733.7
77.5°	3244.0	2148.9	1133.8	1282.7	1354.4	1616.5	2286.8	2521.3	2444.1	2336.5	2300.6
80°	1313.1	1012.4	913.1	1062.1	1103.4	1302.1	1903.4	2049.6	1991.6	1804.1	1743.4
82.5°	659.3	606.9	717.2	835.9	838.6	929.7	1415.1	1553.1	1423.4	1194.5	1142.0
85°	344.8	355.9	493.8	587.6	518.6	502.1	849.6	940.7	863.4	750.3	675.8
87.5°	124.1	143.4	259.3	256.5	182.0	96.5	187.6	91.1	49.6	30.4	38.6
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)