

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: P651099

Luminaire Tested: **GALN-SA8C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34380.1 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

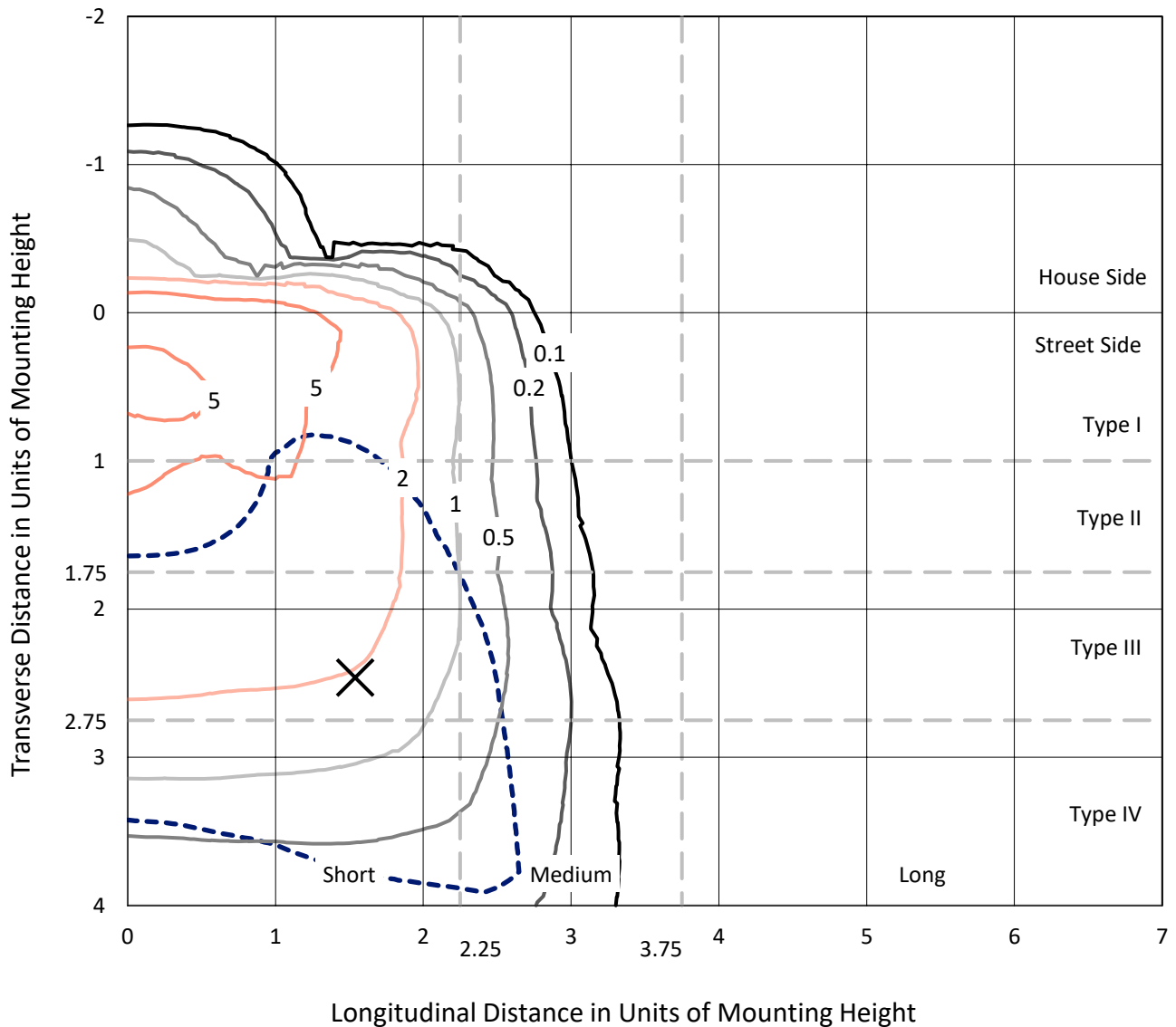
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

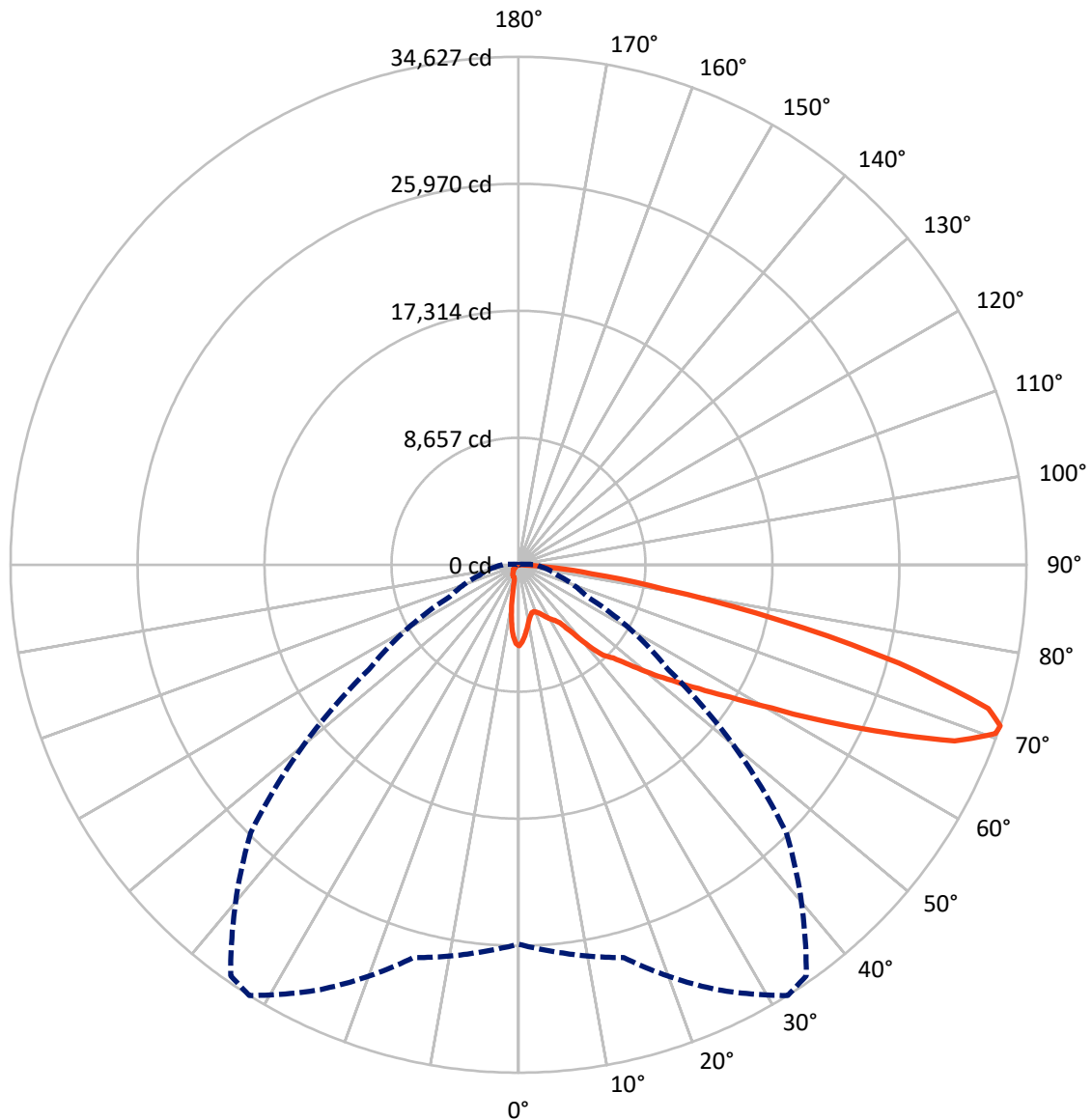
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2879.7	0.0	2879.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	31500.4	0.0	31500.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	34380.1	0.0	34380.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.3
10°-20°	975.7	2.8
20°-30°	1517.9	4.4
30°-40°	2528.8	7.4
40°-50°	4704.0	13.7
50°-60°	7552.5	22.0
60°-70°	10158.5	29.5
70°-80°	6027.2	17.5
80°-90°	465.9	1.4
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°	34380.1	100.0
0°-180°	34380.1	100.0

Coefficient of Utilization

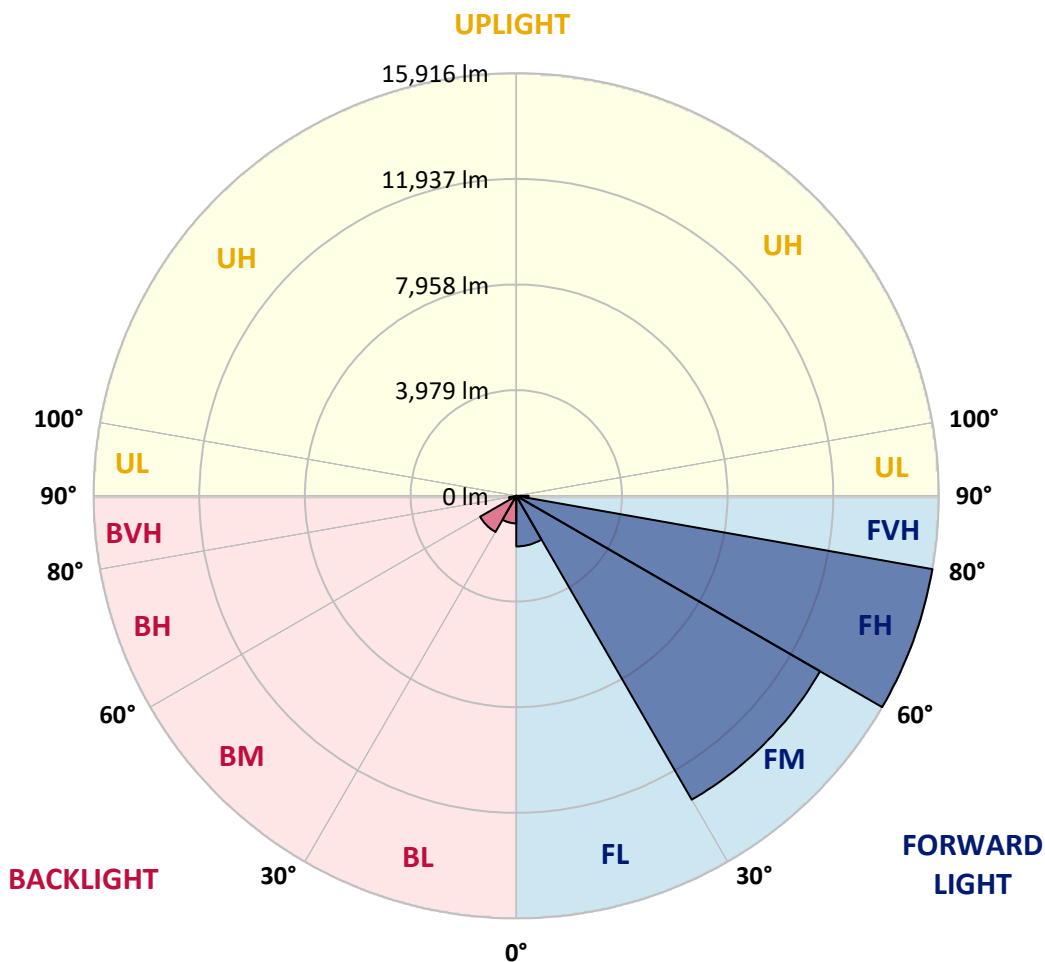


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.6	5.5			
FM (30°-60°)	13214.4	38.4			
FH (60°-80°)	15916.3	46.3			G5
FVH (80°-90°)	464.1	1.3			G3/500
BL (0°-30°)	1037.6	3.0	B3/2500		
BM (30°-60°)	1570.9	4.6	B2/2500		
BH (60°-80°)	269.3	0.8	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8
2.5°	5127.7	5180.5	5172.6	5191.1	5235.9	5254.4	5304.5	5359.9	5436.5	5489.3	5523.6
5°	4591.9	4631.6	4636.9	4729.2	4774.1	4824.2	4972.0	5133.0	5312.4	5455.0	5549.9
7.5°	4019.3	4040.4	4082.6	4204.1	4317.5	4367.6	4591.9	4871.7	5154.1	5420.7	5592.2
10°	3546.9	3570.6	3647.2	3776.5	3882.1	3948.1	4259.5	4610.4	5006.3	5402.2	5652.9
12.5°	3277.7	3290.9	3319.9	3436.1	3570.6	3642.0	3977.1	4378.2	4887.6	5410.1	5755.8
15°	3259.2	3254.0	3219.7	3267.2	3388.6	3462.5	3789.7	4219.9	4782.0	5436.5	5877.2
17.5°	3356.9	3343.7	3261.9	3261.9	3362.1	3422.9	3710.5	4135.4	4729.2	5497.2	6048.7
20°	3507.3	3486.2	3351.6	3341.0	3438.7	3502.0	3758.0	4140.7	4739.8	5610.6	6278.3
22.5°	3697.4	3673.6	3470.4	3475.7	3581.2	3644.6	3895.3	4235.7	4805.7	5750.5	6523.8
25°	3945.4	3919.1	3678.9	3668.3	3779.1	3834.5	4098.4	4404.6	4898.2	5924.7	6845.7
27.5°	4275.3	4219.9	3932.2	3916.4	4035.1	4106.4	4343.9	4631.6	5061.7	6164.9	7278.5
30°	4547.1	4486.4	4212.0	4169.8	4296.4	4351.8	4597.2	4937.7	5383.7	6584.4	7877.6
32.5°	4903.4	4813.6	4491.7	4380.9	4515.4	4586.7	4964.1	5507.7	5861.3	7027.8	8590.1
35°	5705.7	5650.3	5257.0	4869.1	4861.1	4950.9	5505.1	6083.0	6352.2	7719.3	9561.3
37.5°	6853.6	6814.1	6397.1	5877.2	5726.8	5684.6	6162.3	6716.4	7136.1	8669.4	10690.9
40°	8186.4	8094.0	7711.4	7270.6	7075.3	6951.3	6938.1	7658.6	8160.0	9959.9	11867.9
42.5°	9141.8	8972.9	8508.4	8476.7	8434.5	8305.1	7930.4	9036.2	9482.2	11348.0	13126.7
45°	10144.6	9888.6	9197.2	9078.4	9062.5	9054.6	9429.4	10667.2	10923.1	12852.2	14419.9
47.5°	10923.1	10719.9	10152.5	10099.7	10165.7	10345.1	11411.4	12398.4	12345.5	14192.9	15504.5
50°	11960.3	11807.2	11176.5	11276.7	11617.2	11910.2	13646.7	14285.3	13514.7	15248.6	16293.6
52.5°	13184.8	12902.5	12316.5	12588.3	13110.9	13599.1	16019.2	15937.4	14335.4	16042.9	16882.1
55°	14245.7	14045.1	13844.5	14126.9	14908.1	15517.7	18162.1	17175.1	14931.9	16681.6	17140.8
57.5°	16040.3	15992.8	15786.9	16074.6	17022.0	17655.4	20080.7	18135.7	15314.5	17014.1	16837.2
60°	18695.2	18618.6	18236.0	18602.8	19837.9	20832.8	21848.8	18998.7	15401.7	16884.8	15963.8
62.5°	21888.5	21627.2	21299.9	21840.9	23535.2	23973.3	23514.1	19510.6	15077.0	15855.5	13857.7
65°	24870.6	24601.4	24609.3	25749.4	27594.1	27892.4	25456.5	19434.1	14126.9	13277.2	10221.1
67.5°	27153.4	27108.5	27430.5	29655.3	32067.3	31861.5	27193.0	18288.7	11311.0	8606.0	5431.2
70°	27269.5	27356.6	28280.3	32035.7	34484.7	34157.5	27045.2	14865.9	7051.6	3958.6	2140.3
71°	25865.5	26451.4	27728.7	31961.8	34627.2	34202.4	25799.5	12451.2	5172.6	2760.5	1543.8
72.5°	22041.5	22350.3	25110.7	30080.1	33500.4	32592.5	22640.6	8727.4	3312.0	1689.0	886.8
75°	12139.8	12899.8	16816.1	23598.5	26794.5	25997.5	14755.0	4146.0	1652.1	923.7	366.8
77.5°	5779.6	5631.8	8204.9	14034.6	18167.4	18125.1	7434.3	1842.0	963.3	625.5	184.8
80°	1652.1	1857.9	3140.5	6671.6	10086.5	10197.4	2855.4	889.4	667.7	488.2	95.0
82.5°	498.8	509.3	1153.3	2950.5	5016.9	4729.2	1071.4	453.9	480.3	388.0	55.4
85°	87.1	108.2	340.4	1039.8	1913.4	1451.5	269.2	216.4	316.7	256.0	31.7
87.5°	5.3	7.9	113.5	118.7	168.9	97.6	47.5	31.7	68.6	68.6	18.5
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°	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8	5528.8
2.5°	5547.3	5563.1	5552.6	5528.8	5489.3	5441.8	5378.4	5325.6	5280.8	5257.0	5286.0
5°	5581.6	5602.7	5549.9	5431.2	5251.8	5056.4	4834.7	4663.3	4528.6	4486.4	4470.6
7.5°	5634.4	5647.7	5505.1	5241.2	4861.1	4399.4	3995.6	3655.2	3391.2	3312.0	3195.9
10°	5703.1	5695.1	5426.0	4935.1	4267.4	3573.3	2947.9	2483.4	2132.4	2005.7	1995.1
12.5°	5808.6	5766.4	5325.6	4518.1	3560.1	2652.3	1879.0	1470.0	1248.3	1174.4	1158.6
15°	5940.6	5840.2	5167.3	4029.8	2726.2	1712.8	1158.6	1034.5	1005.5	1000.2	994.9
17.5°	6096.2	5937.9	4958.8	3430.8	1916.0	1111.0	968.6	965.9	968.6	963.3	960.6
20°	6307.4	6040.8	4710.8	2720.9	1266.7	936.9	923.7	923.7	926.3	923.7	923.7
22.5°	6531.7	6162.3	4404.6	2076.9	955.4	889.4	886.8	892.0	897.3	894.7	894.7
25°	6808.8	6320.5	4000.8	1422.5	855.0	849.7	852.4	863.0	873.5	876.2	873.5
27.5°	7210.0	6515.9	3568.0	979.1	783.8	789.1	815.4	841.8	857.7	860.3	860.3
30°	7661.3	6732.3	3003.3	794.3	725.8	725.8	757.4	807.5	841.8	847.1	849.7
32.5°	8241.8	6983.0	2377.8	715.2	670.4	665.1	694.1	754.8	818.1	836.6	836.6
35°	8959.7	7278.5	1768.2	665.1	630.8	617.5	633.4	683.5	765.3	818.1	823.4
37.5°	9801.5	7558.3	1293.1	620.2	593.8	575.3	585.8	625.5	691.5	770.6	791.7
40°	10580.0	7806.3	965.9	583.2	556.8	543.6	551.5	570.0	625.5	699.4	712.6
42.5°	11429.8	7999.0	768.0	543.6	519.9	514.6	514.6	522.5	559.5	601.7	604.3
45°	12276.9	8067.6	644.0	496.1	480.3	485.6	483.0	477.7	493.5	488.2	488.2
47.5°	12881.3	7985.8	533.1	451.3	451.3	459.2	446.0	427.6	419.6	388.0	390.6
50°	13295.6	7687.6	438.1	398.5	419.6	430.2	403.8	374.7	345.7	311.4	303.5
52.5°	13467.2	7157.2	358.9	329.9	372.1	385.3	353.6	319.3	274.5	245.4	237.5
55°	13356.3	6502.7	298.2	269.2	314.0	329.9	298.2	258.6	208.5	176.8	171.6
57.5°	12868.1	5721.5	253.3	213.8	250.7	261.3	240.2	198.0	147.8	116.1	116.1
60°	12023.6	4914.0	205.9	168.9	187.4	203.2	182.1	142.5	100.2	71.2	66.0
62.5°	10310.8	3990.3	166.3	132.0	132.0	145.2	126.7	102.9	63.3	36.9	34.3
65°	7444.8	2736.7	132.0	97.6	95.0	95.0	79.1	68.6	36.9	15.8	10.6
67.5°	4045.7	1543.8	105.5	73.9	66.0	63.3	50.1	39.6	15.8	2.6	0.0
70°	1591.3	593.8	81.8	50.1	42.2	39.6	26.4	18.5	10.6	0.0	0.0
71°	1079.3	409.1	71.2	42.2	34.3	29.0	21.1	15.8	7.9	0.0	0.0
72.5°	617.5	253.3	55.4	31.7	26.4	21.1	15.8	10.6	7.9	0.0	0.0
75°	269.2	129.3	34.3	23.7	18.5	13.2	10.6	7.9	2.6	0.0	0.0
77.5°	137.3	71.2	23.7	18.5	10.6	7.9	5.3	2.6	0.0	0.0	0.0
80°	76.5	36.9	15.8	10.6	7.9	5.3	2.6	2.6	0.0	0.0	0.0
82.5°	42.2	21.1	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.4	13.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	5.3	0.0	0.0	0.0	0.0	2.6	2.6	0.0	0.0	0.0
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)