

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: P457177

Luminaire Tested: **GALN-SA8C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34346 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 III - Short
BUG Rating: B2 - U0 - G5

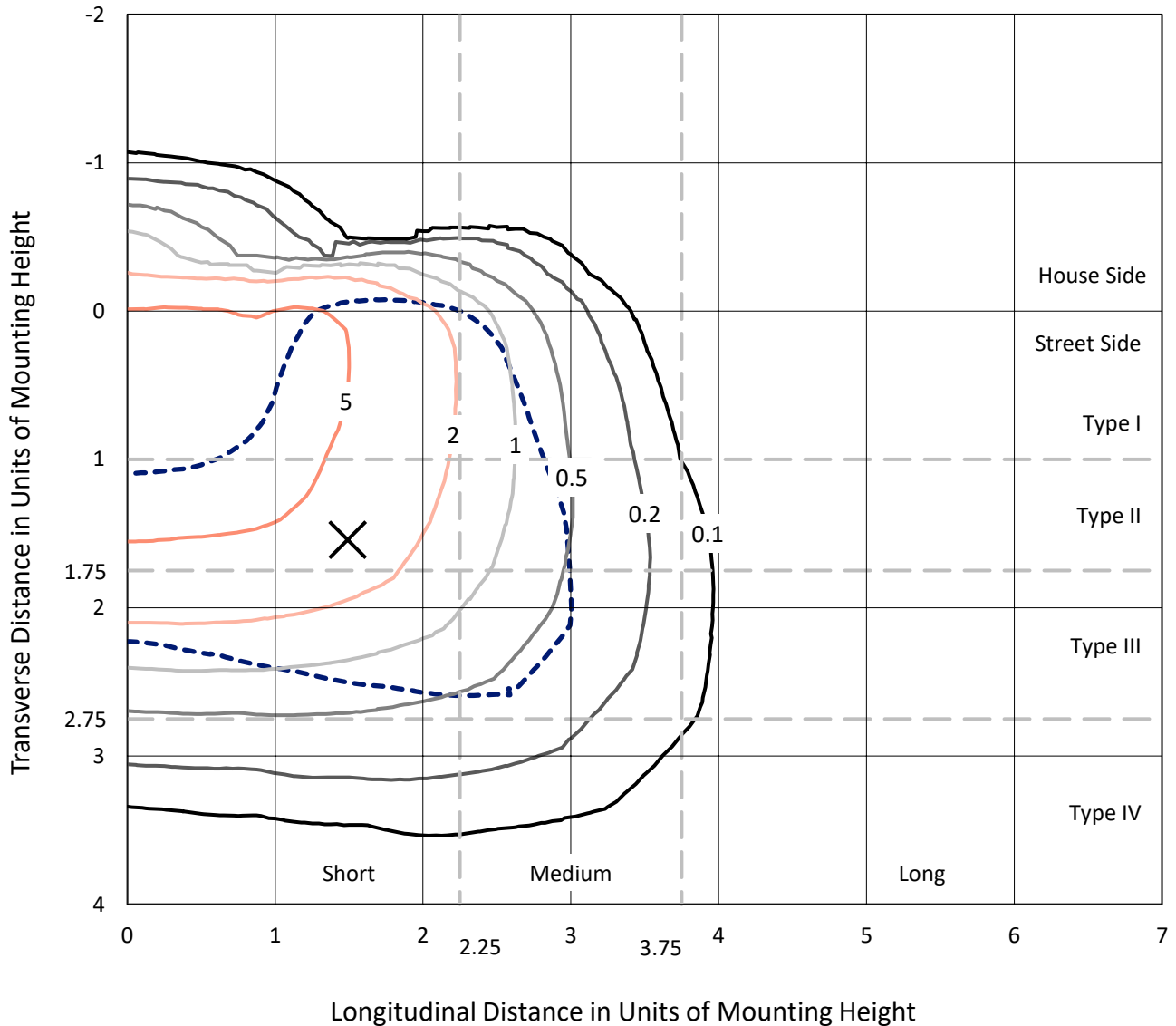
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

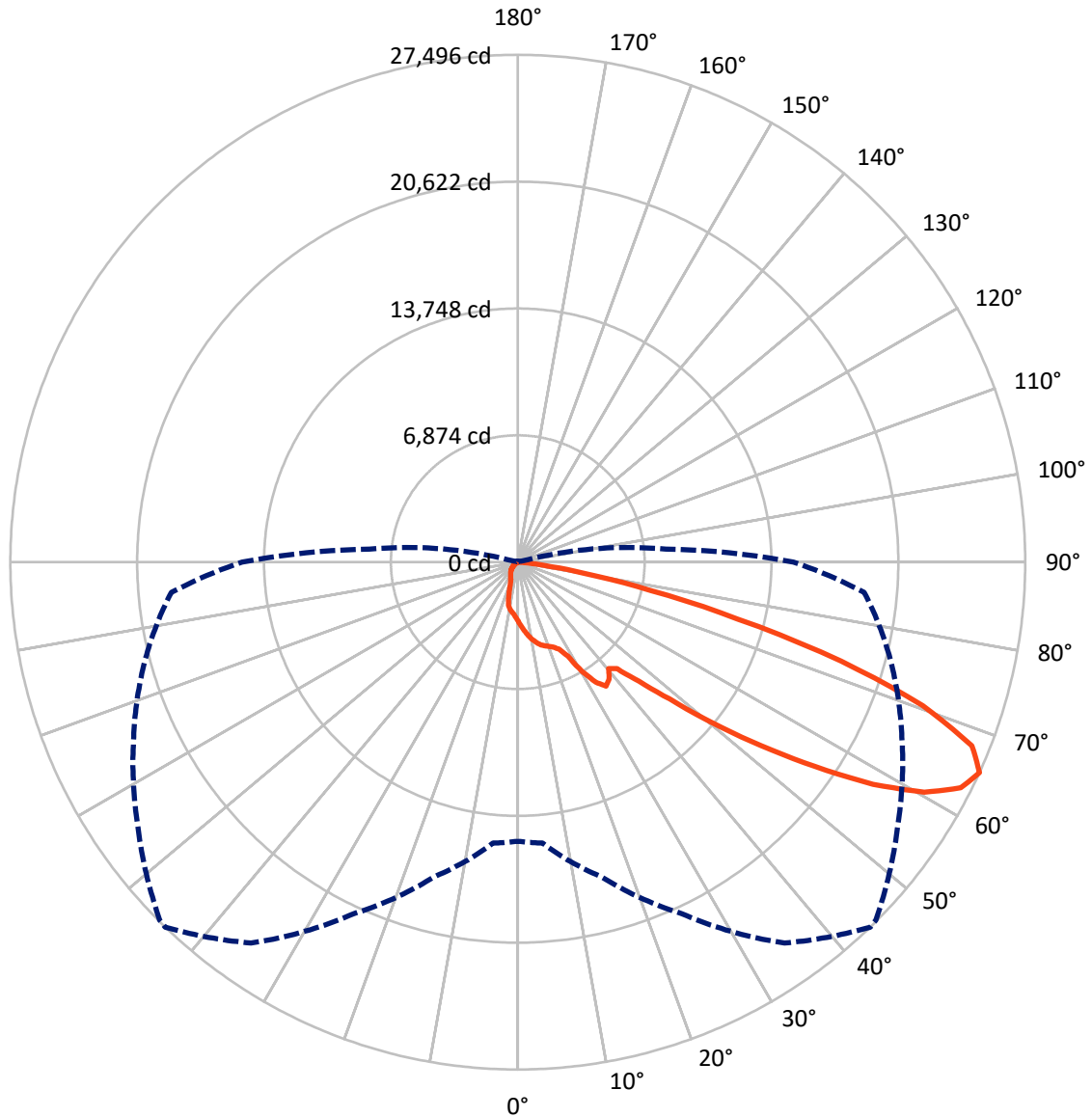
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3164.4	0.0	3164.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	31181.5	0.0	31181.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	34346.0	0.0	34346.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	0.9
10°-20°	956.9	2.8
20°-30°	1622.5	4.7
30°-40°	2697.7	7.9
40°-50°	4710.3	13.7
50°-60°	9202.2	26.8
60°-70°	10676.7	31.1
70°-80°	3887.9	11.3
80°-90°	273.9	0.8
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°	34346.0	100.0
0°-180°	34346.0	100.0



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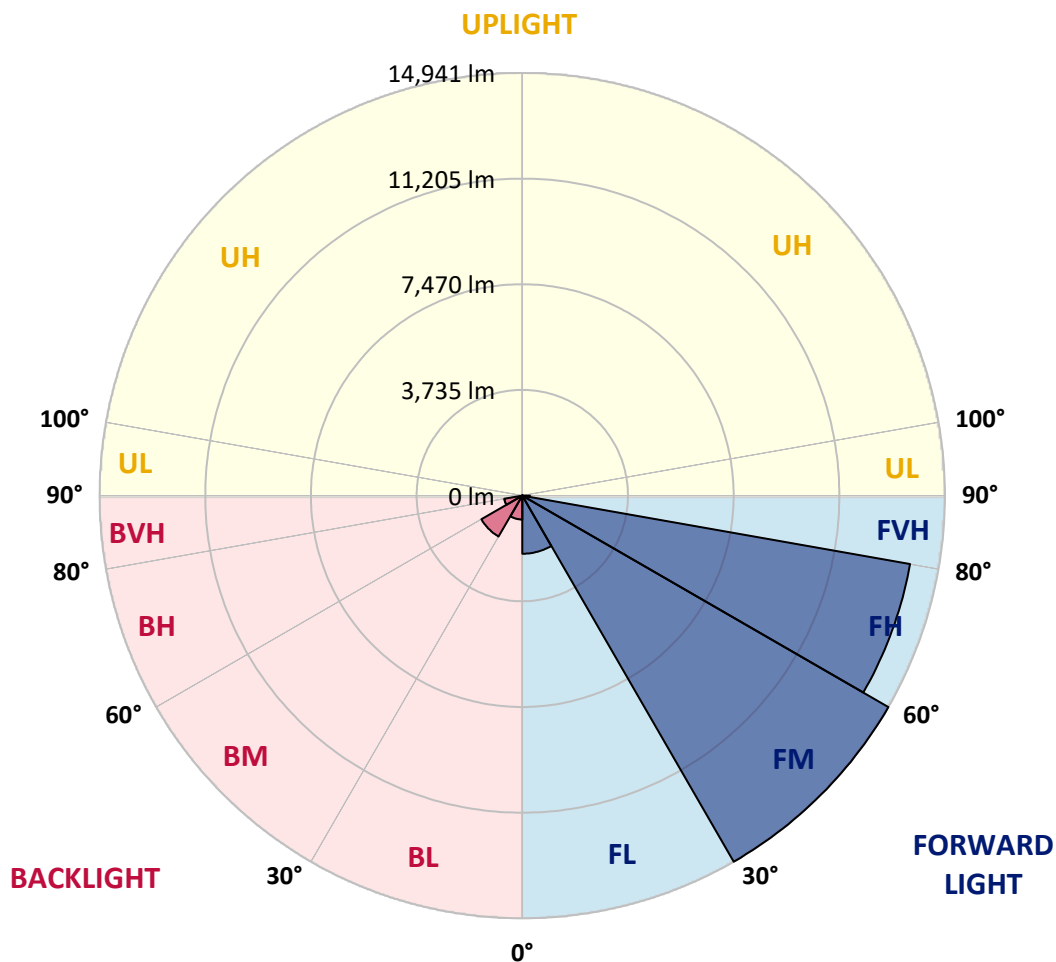
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.2	6.0			
FM (30°-60°)	14940.6	43.5			
FH (60°-80°)	13916.5	40.5			G5
FVH (80°-90°)	270.2	0.8			G3/500
BL (0°-30°)	843.1	2.5	B2/1000		
BM (30°-60°)	1669.6	4.9	B2/2500		
BH (60°-80°)	648.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6
2.5°	3598.1	3582.4	3574.5	3532.5	3501.0	3461.7	3461.7	3411.8	3354.1	3291.1	3233.3
5°	3999.7	3973.4	3939.3	3902.6	3829.1	3724.1	3724.1	3619.1	3498.4	3390.8	3272.7
7.5°	4385.5	4361.8	4304.1	4233.2	4112.5	4002.3	3994.4	3842.2	3697.9	3535.1	3367.2
10°	4724.0	4705.7	4655.8	4519.3	4393.3	4249.0	4246.4	4075.8	3907.8	3708.4	3501.0
12.5°	4960.2	4962.8	4897.2	4766.0	4603.3	4466.8	4456.3	4288.4	4112.5	3897.3	3642.7
15°	5128.2	5128.2	5060.0	4913.0	4766.0	4645.3	4634.8	4487.8	4306.7	4073.2	3797.6
17.5°	5175.4	5191.2	5117.7	4986.5	4868.4	4763.4	4760.8	4637.4	4493.1	4267.4	3955.1
20°	5157.1	5172.8	5115.1	5012.7	4931.4	4871.0	4863.1	4813.3	4679.4	4466.8	4123.0
22.5°	5117.7	5133.4	5091.4	5031.1	4991.7	5010.1	4997.0	5039.0	4968.1	4710.9	4322.5
25°	5125.6	5141.3	5109.8	5075.7	5109.8	5222.7	5256.8	5437.9	5374.9	5020.6	4537.7
27.5°	5372.3	5403.8	5359.1	5374.9	5495.6	5758.1	5823.7	6136.0	5857.8	5414.3	4873.6
30°	5920.8	5899.8	5815.8	5891.9	6311.8	6868.2	6849.8	6800.0	6364.3	5868.3	5272.5
32.5°	6419.4	6401.0	6395.8	6723.9	7485.0	7755.3	7742.1	7259.2	6818.3	6387.9	5666.2
35°	6621.5	6550.6	6534.9	7330.1	8603.0	8246.0	8164.7	7448.2	7369.5	6954.8	6067.7
37.5°	7230.4	7180.5	6936.4	7429.8	8156.8	8038.7	7975.7	7773.6	7957.4	7456.1	6521.8
40°	8484.9	8345.8	8125.3	7642.4	7524.3	7574.2	7637.2	8190.9	8652.8	8141.1	7128.0
42.5°	10043.8	10012.3	9602.9	8702.7	7818.3	7886.5	7967.9	9062.2	9652.8	9172.5	8117.4
45°	11915.0	11959.6	11369.1	10306.2	9146.2	9204.0	9322.1	10348.2	11007.0	10776.0	9673.7
47.5°	13615.7	13581.6	13382.1	12277.2	11206.4	11077.8	11269.4	11999.0	12880.8	12917.6	11605.3
50°	15326.8	15507.9	15211.4	14778.3	13983.1	13712.8	13641.9	13998.9	15342.6	15166.7	13925.4
52.5°	17785.9	17880.4	17324.0	17213.8	17394.9	16518.3	16447.5	16534.1	17736.1	17132.5	15662.8
55°	19331.7	19276.6	19069.3	19930.1	20646.6	19552.2	19463.0	19113.9	19722.8	18520.8	17334.5
57.5°	19819.9	19898.6	20381.5	21937.8	23633.2	22704.2	22541.5	21549.4	21155.7	19814.6	18872.5
60°	19602.1	19746.4	20788.3	23103.1	25454.6	25315.5	25176.4	23509.9	22184.5	20895.9	19951.1
62.5°	18051.0	18253.1	19919.6	22895.8	26071.4	26940.0	26766.8	24732.9	22869.5	21420.8	20140.1
65°	15127.4	15277.0	17670.5	21014.0	25194.8	27496.4	27433.4	25116.1	22977.1	20940.5	18846.2
67.5°	10783.9	11293.0	13510.7	17709.8	22601.8	26546.4	26654.0	24656.8	21966.7	18864.6	15607.6
70°	6779.0	7125.4	8715.8	12678.8	18119.2	23289.4	23643.7	22554.6	19064.1	14704.8	10448.0
72.5°	3233.3	3490.5	4624.3	8025.6	12789.0	18324.0	18604.8	18515.5	14741.6	9264.3	5390.6
75°	1440.8	1537.9	2207.2	4096.8	8256.5	12316.6	13043.6	13164.3	9211.8	4532.4	2096.9
77.5°	734.8	737.5	1034.0	1984.1	4123.0	7348.5	7492.8	7915.4	4994.3	1997.2	729.6
80°	391.0	417.3	548.5	936.9	2138.9	3619.1	3600.8	3957.7	2215.0	978.9	244.1
82.5°	175.8	194.2	309.7	490.8	1044.5	1372.6	1480.2	1619.3	950.1	624.6	107.6
85°	52.5	63.0	152.2	246.7	377.9	396.3	443.5	572.1	538.0	443.5	55.1
87.5°	7.9	7.9	63.0	68.2	55.1	70.9	73.5	81.4	173.2	162.7	28.9
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°	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6	3196.6
2.5°	3201.8	3183.5	3117.9	3062.7	3015.5	2986.6	2952.5	2931.5	2921.0	2913.1	2915.8
5°	3215.0	3170.3	3057.5	2968.3	2900.0	2826.5	2776.7	2747.8	2734.7	2713.7	2713.7
7.5°	3288.4	3217.6	3060.1	2923.6	2805.5	2705.8	2611.3	2577.2	2553.6	2548.3	2543.1
10°	3393.4	3304.2	3089.0	2900.0	2732.1	2595.6	2461.7	2343.6	2251.8	2196.7	2188.8
12.5°	3524.6	3396.0	3133.6	2884.3	2669.1	2427.6	2073.3	1834.5	1674.4	1624.5	1632.4
15°	3645.4	3506.3	3178.2	2871.2	2553.6	2013.0	1611.4	1338.5	1257.1	1249.2	1251.9
17.5°	3789.7	3624.4	3230.7	2852.8	2236.0	1537.9	1196.8	1123.3	1139.0	1165.3	1162.6
20°	3939.3	3750.3	3293.7	2742.6	1784.6	1157.4	1057.7	1065.5	1089.1	1112.8	1118.0
22.5°	4099.4	3894.7	3367.2	2477.5	1362.1	1007.8	1002.5	1013.0	1036.7	1062.9	1068.2
25°	4319.9	4075.8	3422.3	2131.1	1031.4	931.7	942.2	960.6	981.5	1010.4	1015.7
27.5°	4603.3	4319.9	3451.2	1679.7	892.3	863.4	866.1	892.3	918.6	944.8	944.8
30°	4970.7	4611.2	3393.4	1270.2	824.1	797.8	787.3	803.1	837.2	863.4	866.1
32.5°	5298.8	4886.7	3241.2	971.0	774.2	737.5	711.2	713.9	727.0	742.7	745.3
35°	5626.8	5154.4	2981.4	816.2	721.7	679.7	640.4	619.4	608.9	601.0	608.9
37.5°	6046.7	5487.7	2635.0	742.7	677.1	624.6	569.5	524.9	488.1	464.5	469.8
40°	6587.4	5949.6	2225.5	695.5	635.1	572.1	498.6	440.9	377.9	356.9	346.4
42.5°	7479.7	6650.4	1795.1	656.1	593.1	517.0	425.2	346.4	288.7	267.7	272.9
45°	8889.0	7534.8	1383.1	614.1	551.1	456.7	356.9	272.9	225.7	215.2	220.5
47.5°	10757.6	8679.1	1065.5	566.9	498.6	391.0	280.8	215.2	186.3	183.7	181.1
50°	12516.0	9744.6	889.7	514.4	435.7	325.4	231.0	181.1	162.7	160.1	160.1
52.5°	14106.5	10508.3	724.4	454.0	367.4	267.7	194.2	160.1	144.3	136.5	136.5
55°	15521.0	11007.0	587.9	380.5	288.7	212.6	168.0	144.3	126.0	115.5	112.9
57.5°	16589.2	11067.3	440.9	304.4	215.2	165.3	144.3	126.0	105.0	91.9	86.6
60°	17045.8	10545.1	325.4	231.0	160.1	131.2	115.5	102.4	78.7	65.6	63.0
62.5°	16586.6	9529.4	241.5	175.8	123.3	97.1	81.4	76.1	55.1	39.4	36.7
65°	14941.0	8062.3	191.6	133.8	91.9	70.9	52.5	49.9	34.1	18.4	15.7
67.5°	11970.1	6314.4	152.2	99.7	65.6	47.2	34.1	31.5	18.4	5.2	5.2
70°	7784.1	4036.4	123.3	73.5	42.0	31.5	21.0	15.7	10.5	2.6	0.0
72.5°	3850.1	1887.0	99.7	57.7	28.9	15.7	7.9	5.2	7.9	0.0	0.0
75°	1493.3	671.9	73.5	39.4	15.7	7.9	5.2	0.0	2.6	0.0	0.0
77.5°	496.0	223.1	44.6	21.0	10.5	5.2	0.0	0.0	0.0	0.0	0.0
80°	183.7	86.6	23.6	13.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	73.5	34.1	15.7	10.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.7	21.0	10.5	7.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.2	15.7	10.5	7.9	5.2	2.6	0.0	0.0	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)