

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: P647579

Luminaire Tested: **GALN-SA7D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647579
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-SA7D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA 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: 30380.4 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

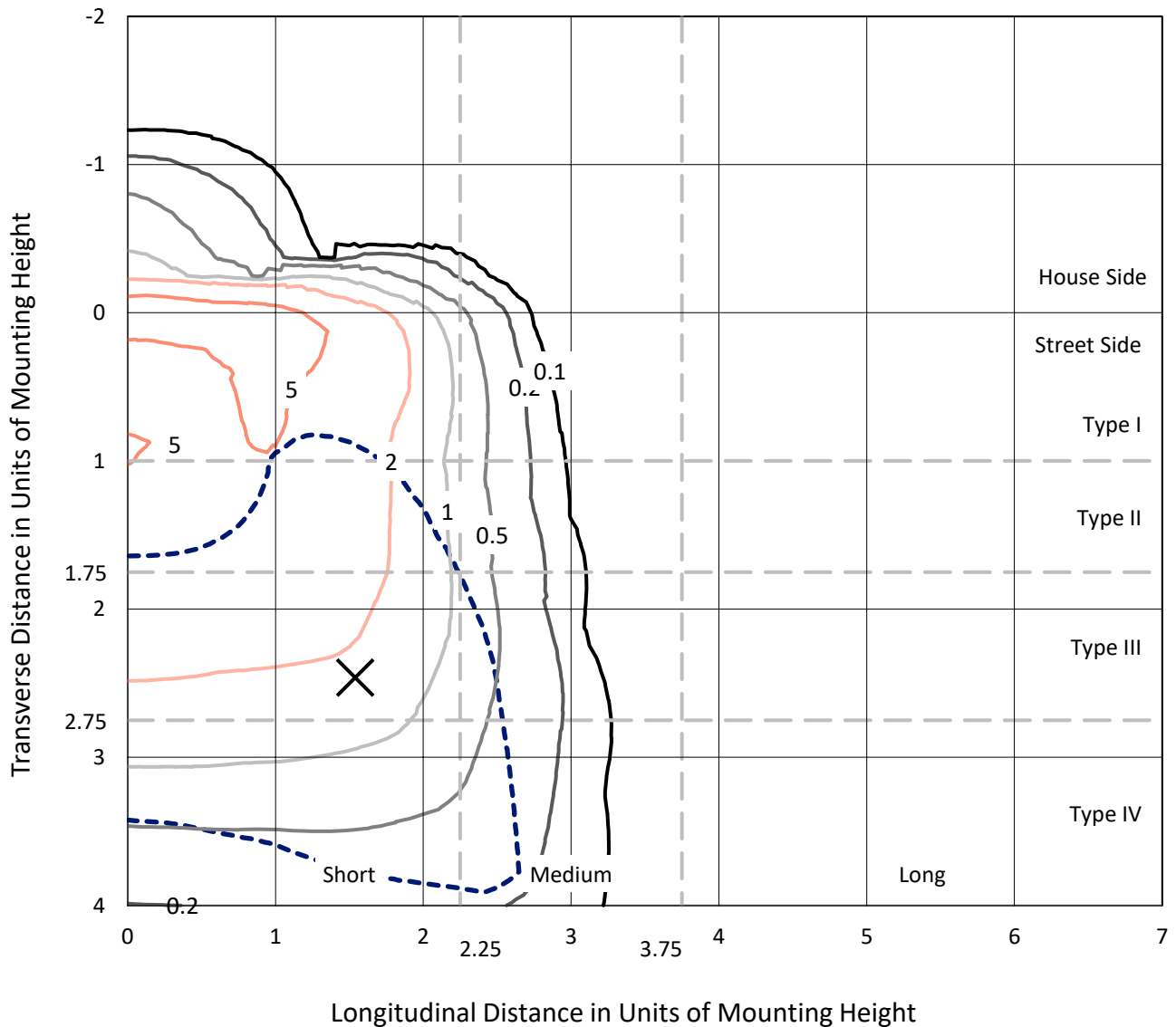
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

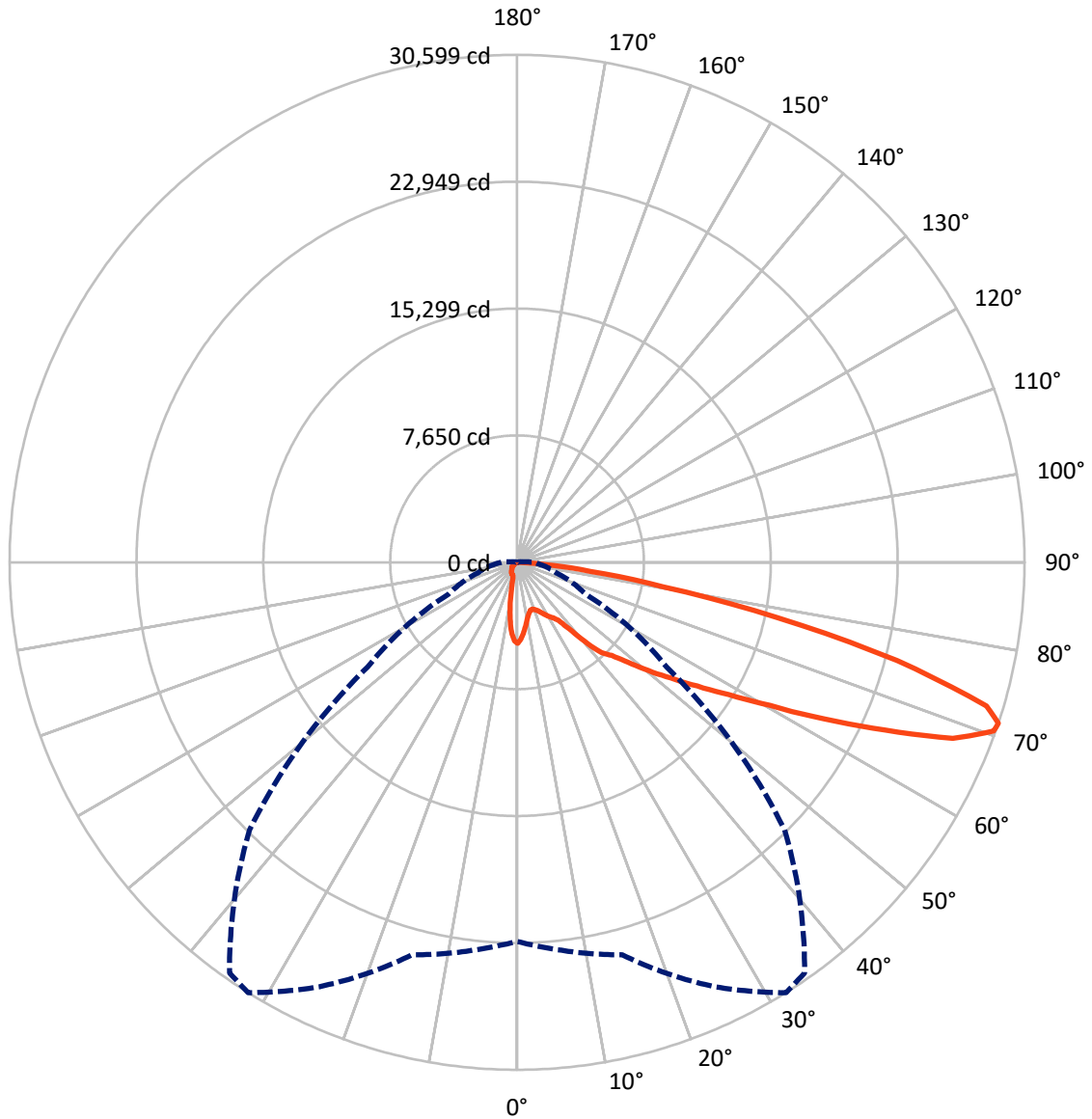
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	2544.7	0.0	2544.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27835.7	0.0	27835.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	30380.4	0.0	30380.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	1.3
10°-20°	862.2	2.8
20°-30°	1341.3	4.4
30°-40°	2234.6	7.4
40°-50°	4156.8	13.7
50°-60°	6673.9	22.0
60°-70°	8976.7	29.5
70°-80°	5326.0	17.5
80°-90°	411.7	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°	30380.4	100.0
0°-180°	30380.4	100.0

Coefficient of Utilization

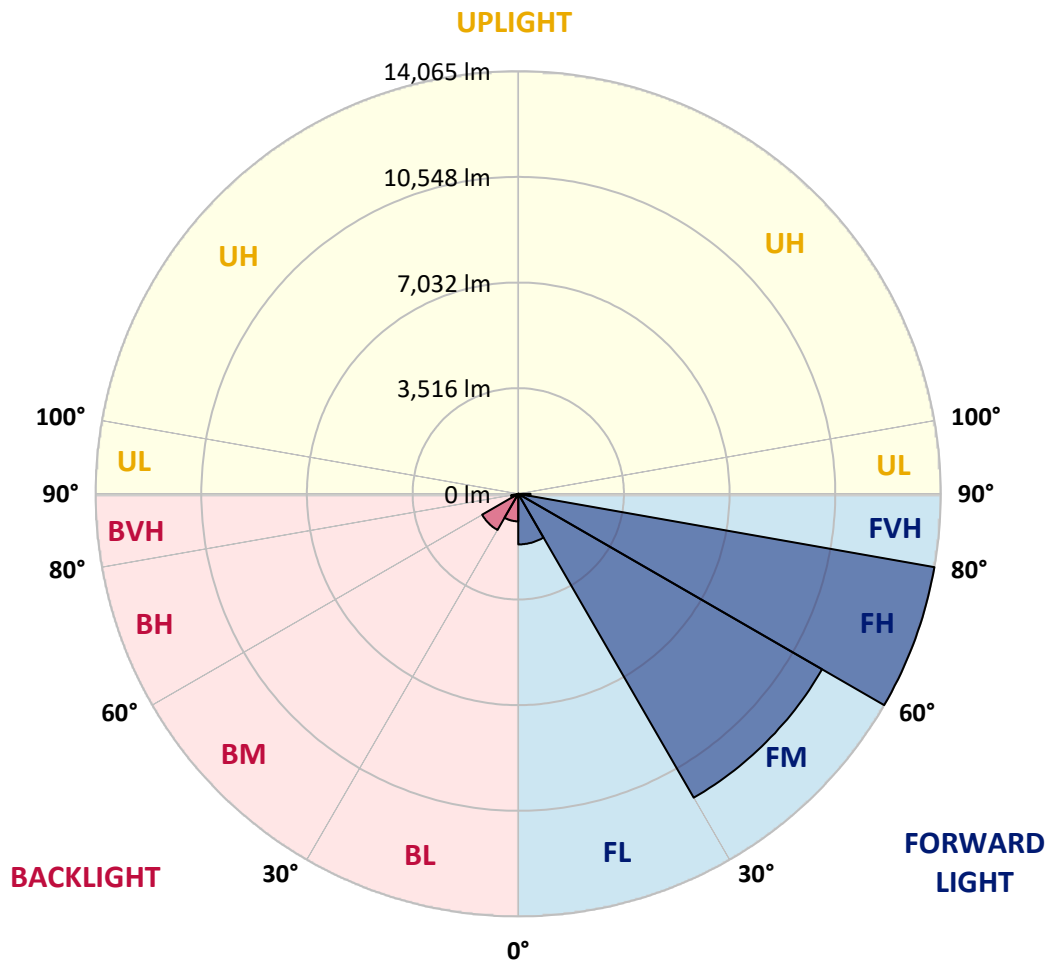


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.9	5.5			
FM (30°-60°)	11677.1	38.4			
FH (60°-80°)	14064.7	46.3			G5
FVH (80°-90°)	410.1	1.3			G3/500
BL (0°-30°)	916.9	3.0	B2/1000		
BM (30°-60°)	1388.2	4.6	B2/2500		
BH (60°-80°)	238.0	0.8	B1/500		G1/500
BVH (80°-90°)	1.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6
2.5°	4531.1	4577.8	4570.8	4587.1	4626.7	4643.1	4687.4	4736.4	4804.0	4850.7	4881.0
5°	4057.7	4092.7	4097.4	4179.0	4218.6	4263.0	4393.6	4535.8	4694.4	4820.4	4904.3
7.5°	3551.7	3570.4	3607.7	3714.9	3815.2	3859.6	4057.7	4304.9	4554.5	4790.0	4941.6
10°	3134.3	3155.3	3222.9	3337.1	3430.5	3488.7	3764.0	4074.1	4423.9	4773.7	4995.2
12.5°	2896.4	2908.1	2933.7	3036.3	3155.3	3218.2	3514.4	3868.9	4318.9	4780.7	5086.2
15°	2880.1	2875.4	2845.1	2887.1	2994.3	3059.7	3348.8	3729.0	4225.7	4804.0	5193.5
17.5°	2966.4	2954.7	2882.4	2882.4	2971.0	3024.7	3278.9	3654.3	4179.0	4857.7	5345.1
20°	3099.3	3080.6	2961.7	2952.4	3038.7	3094.7	3320.9	3659.0	4188.3	4958.0	5547.9
22.5°	3267.2	3246.2	3066.6	3071.3	3164.6	3220.6	3442.1	3743.0	4246.7	5081.5	5764.8
25°	3486.4	3463.1	3250.9	3241.5	3339.5	3388.4	3621.7	3892.2	4328.3	5235.5	6049.3
27.5°	3777.9	3729.0	3474.7	3460.8	3565.7	3628.7	3838.6	4092.7	4472.9	5447.6	6431.8
30°	4018.1	3964.5	3721.9	3684.6	3796.6	3845.5	4062.4	4363.3	4757.4	5818.5	6961.2
32.5°	4333.0	4253.6	3969.2	3871.2	3990.2	4053.1	4386.6	4867.0	5179.5	6210.2	7590.8
35°	5041.9	4993.0	4645.5	4302.7	4295.6	4374.9	4864.6	5375.4	5613.2	6821.3	8449.0
37.5°	6056.3	6021.3	5652.9	5193.5	5060.5	5023.3	5445.4	5935.1	6305.9	7660.8	9447.1
40°	7234.0	7152.4	6814.2	6424.8	6252.3	6142.6	6131.0	6767.6	7210.7	8801.2	10487.2
42.5°	8078.2	7929.0	7518.5	7490.6	7453.2	7339.0	7007.8	7985.0	8379.0	10027.8	11599.6
45°	8964.4	8738.2	8127.2	8022.2	8008.3	8001.2	8332.4	9426.1	9652.4	11357.1	12742.3
47.5°	9652.4	9472.8	8971.4	8924.8	8983.0	9141.6	10083.8	10956.0	10909.3	12541.8	13700.8
50°	10568.9	10433.6	9876.2	9964.8	10265.7	10524.5	12059.1	12623.4	11942.4	13474.6	14398.0
52.5°	11650.9	11401.4	10883.7	11123.8	11585.6	12017.0	14155.5	14083.3	12667.7	14176.5	14918.1
55°	12588.4	12411.2	12233.9	12483.4	13173.7	13712.4	16049.2	15177.0	13194.7	14740.9	15146.7
57.5°	14174.2	14132.2	13950.3	14204.5	15041.7	15601.4	17744.6	16025.8	13532.9	15034.7	14878.5
60°	16520.2	16452.6	16114.5	16438.6	17530.0	18409.2	19307.1	16788.5	13609.9	14920.5	14106.5
62.5°	19342.0	19111.2	18822.0	19300.0	20797.2	21184.3	20778.5	17240.9	13323.0	14010.9	12245.6
65°	21977.2	21739.4	21746.3	22753.8	24383.9	24647.4	22495.0	17173.2	12483.4	11732.6	9032.1
67.5°	23994.5	23954.8	24239.3	26205.2	28336.7	28154.8	24029.4	16161.1	9995.2	7604.8	4799.3
70°	24097.1	24174.0	24990.2	28308.7	30472.9	30183.7	23898.8	13136.5	6231.3	3498.1	1891.3
71°	22856.4	23374.1	24502.8	28243.4	30598.8	30223.3	22798.1	11002.6	4570.8	2439.4	1364.2
72.5°	19477.3	19750.2	22189.4	26580.7	29603.0	28800.8	20006.7	7712.1	2926.7	1492.5	783.5
75°	10727.4	11399.1	14859.9	20853.2	23677.3	22973.0	13038.5	3663.7	1459.8	816.2	324.2
77.5°	5107.2	4976.6	7250.3	12401.9	16053.8	16016.5	6569.4	1627.8	851.2	552.7	163.3
80°	1459.8	1641.8	2775.1	5895.4	8913.1	9011.0	2523.3	785.9	590.0	431.4	83.9
82.5°	440.8	450.1	1019.1	2607.2	4433.2	4179.0	946.8	401.1	424.5	342.8	48.9
85°	77.0	95.6	300.8	918.9	1690.7	1282.6	237.9	191.2	279.8	226.2	28.0
87.5°	4.7	7.0	100.3	104.9	149.2	86.3	42.0	28.0	60.6	60.6	16.3
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°	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6	4885.6
2.5°	4902.0	4916.0	4906.7	4885.6	4850.7	4808.7	4752.7	4706.1	4666.4	4645.5	4671.1
5°	4932.3	4950.9	4904.3	4799.3	4640.8	4468.2	4272.3	4120.7	4001.8	3964.5	3950.5
7.5°	4978.9	4990.6	4864.6	4631.4	4295.6	3887.5	3530.7	3229.9	2996.7	2926.7	2824.1
10°	5039.5	5032.6	4794.7	4360.9	3770.9	3157.6	2604.9	2194.4	1884.3	1772.3	1763.0
12.5°	5132.9	5095.5	4706.1	3992.4	3145.9	2343.7	1660.4	1298.9	1103.1	1037.8	1023.8
15°	5249.5	5160.8	4566.1	3561.0	2409.0	1513.5	1023.8	914.2	888.5	883.9	879.2
17.5°	5387.0	5247.1	4381.9	3031.7	1693.1	981.8	855.9	853.5	855.9	851.2	848.9
20°	5573.6	5338.0	4162.7	2404.4	1119.4	827.9	816.2	816.2	818.5	816.2	816.2
22.5°	5771.8	5445.4	3892.2	1835.4	844.2	785.9	783.5	788.2	792.9	790.6	790.6
25°	6016.7	5585.3	3535.4	1256.9	755.6	750.9	753.2	762.6	771.9	774.2	771.9
27.5°	6371.2	5757.8	3152.9	865.2	692.6	697.3	720.6	743.9	757.9	760.2	760.2
30°	6770.0	5949.1	2653.9	702.0	641.3	641.3	669.3	713.6	743.9	748.6	750.9
32.5°	7283.0	6170.6	2101.2	632.0	592.3	587.6	613.3	667.0	722.9	739.2	739.2
35°	7917.3	6431.8	1562.5	587.6	557.3	545.7	559.7	604.0	676.3	722.9	727.6
37.5°	8661.2	6679.0	1142.7	548.0	524.7	508.4	517.7	552.7	611.0	681.0	699.6
40°	9349.2	6898.2	853.5	515.4	492.0	480.4	487.4	503.7	552.7	618.0	629.7
42.5°	10100.1	7068.5	678.6	480.4	459.4	454.8	454.8	461.7	494.4	531.7	534.0
45°	10848.7	7129.1	569.0	438.4	424.5	429.1	426.7	422.1	436.1	431.4	431.4
47.5°	11382.7	7056.8	471.1	398.8	398.8	405.8	394.1	377.8	370.8	342.8	345.1
50°	11748.8	6793.2	387.1	352.1	370.8	380.1	356.8	331.1	305.5	275.1	268.2
52.5°	11900.4	6324.5	317.2	291.5	328.8	340.4	312.5	282.2	242.5	216.9	209.9
55°	11802.5	5746.2	263.6	237.9	277.5	291.5	263.6	228.6	184.2	156.2	151.6
57.5°	11371.0	5055.9	223.9	188.9	221.5	230.9	212.2	174.9	130.6	102.6	102.6
60°	10624.8	4342.3	181.9	149.2	165.6	179.5	160.9	125.9	88.6	63.0	58.3
62.5°	9111.3	3526.1	146.9	116.6	116.6	128.3	112.0	91.0	56.0	32.7	30.3
65°	6578.7	2418.4	116.6	86.3	83.9	83.9	70.0	60.6	32.7	14.0	9.3
67.5°	3575.0	1364.2	93.3	65.3	58.3	56.0	44.3	35.0	14.0	2.3	0.0
70°	1406.2	524.7	72.3	44.3	37.3	35.0	23.3	16.3	9.3	0.0	0.0
71°	953.8	361.4	63.0	37.3	30.3	25.7	18.6	14.0	7.0	0.0	0.0
72.5°	545.7	223.9	48.9	28.0	23.3	18.6	14.0	9.3	7.0	0.0	0.0
75°	237.9	114.2	30.3	21.0	16.3	11.7	9.3	7.0	2.3	0.0	0.0
77.5°	121.3	63.0	21.0	16.3	9.3	7.0	4.7	2.3	0.0	0.0	0.0
80°	67.7	32.7	14.0	9.3	7.0	4.7	2.3	2.3	0.0	0.0	0.0
82.5°	37.3	18.6	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.3	11.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	4.7	0.0	0.0	0.0	0.0	2.3	2.3	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)