

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: P651484

Luminaire Tested: **GALN-SA6D-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651484
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-SA6D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 27780.8 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

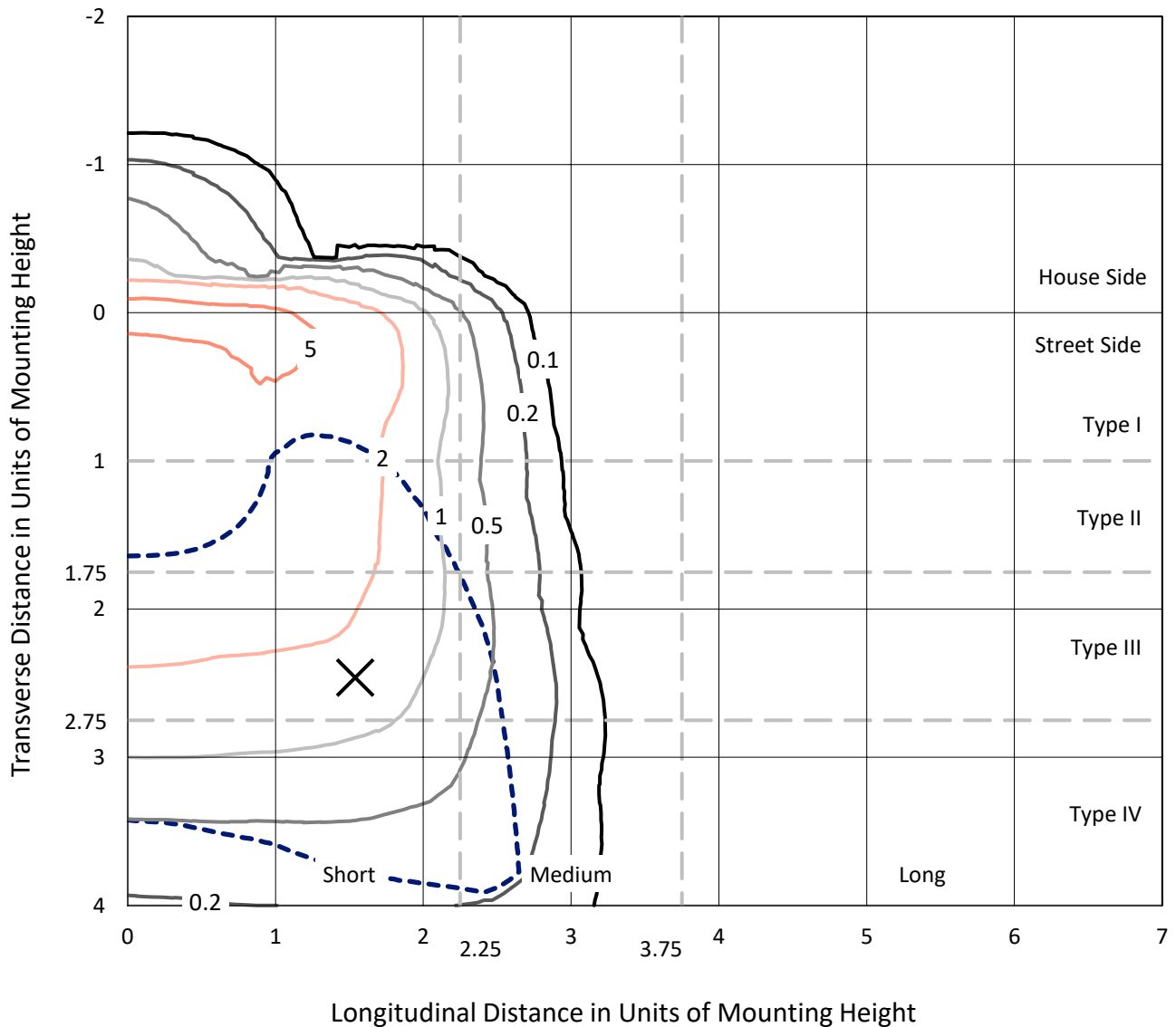
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

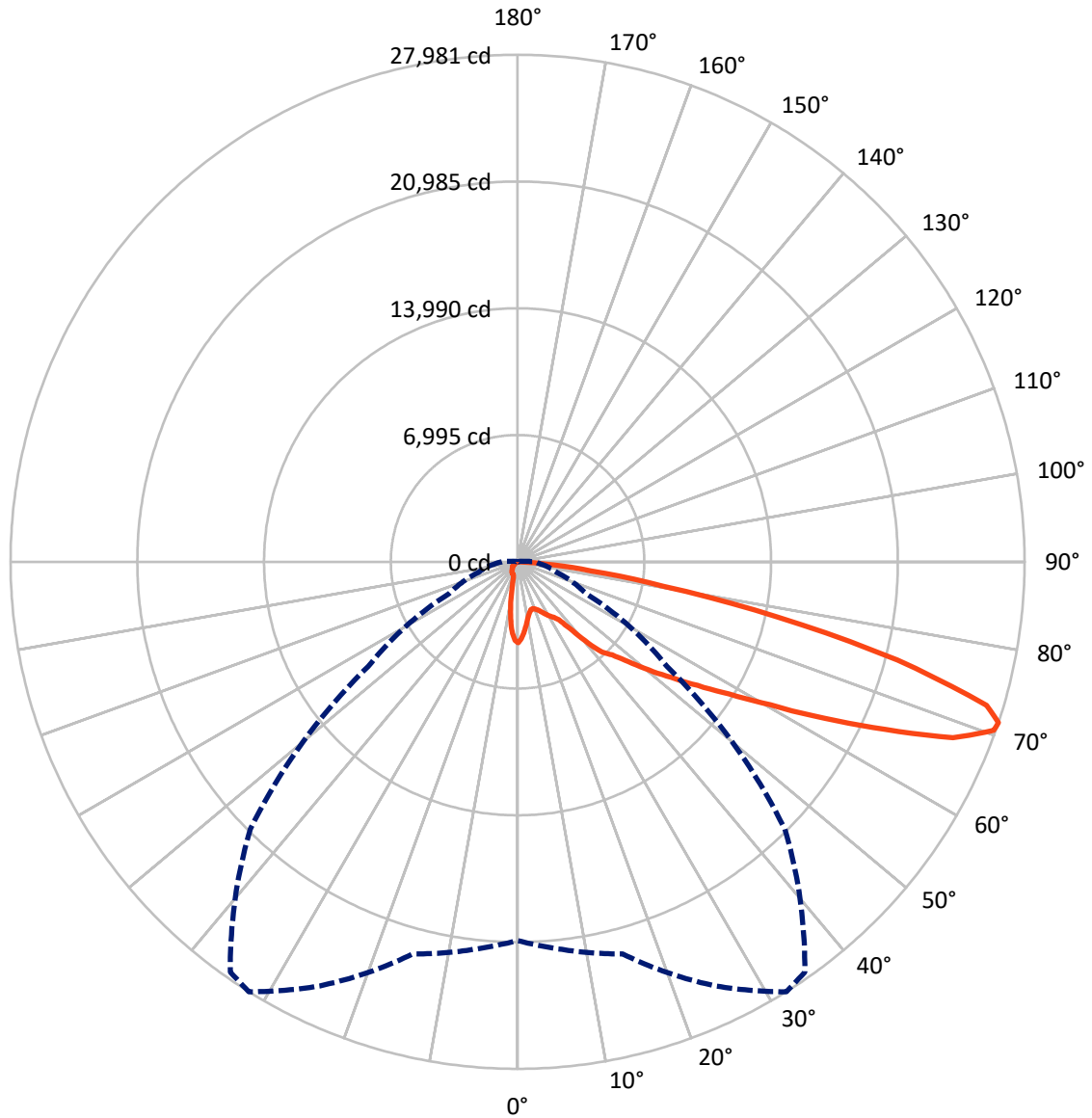
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	2326.9	0.0	2326.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25453.8	0.0	25453.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	27780.8	0.0	27780.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.3	1.3
10°-20°	788.4	2.8
20°-30°	1226.5	4.4
30°-40°	2043.4	7.4
40°-50°	3801.1	13.7
50°-60°	6102.8	22.0
60°-70°	8208.5	29.5
70°-80°	4870.2	17.5
80°-90°	376.4	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°	27780.8	100.0
0°-180°	27780.8	100.0

Coefficient of Utilization



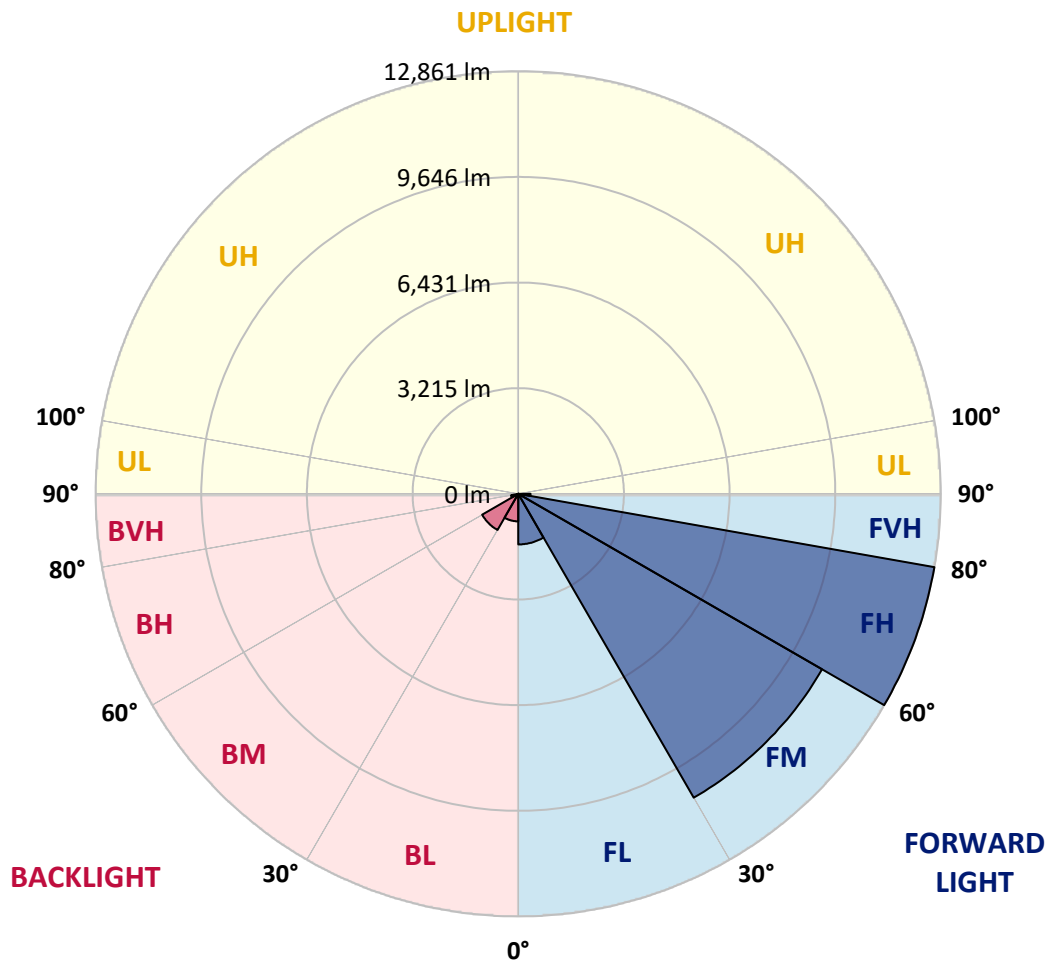
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.8	5.5			
FM (30°-60°)	10677.9	38.4			
FH (60°-80°)	12861.1	46.3			G5
FVH (80°-90°)	375.0	1.3			G3/500
BL (0°-30°)	838.4	3.0	B2/1000		
BM (30°-60°)	1269.4	4.6	B2/2500		
BH (60°-80°)	217.6	0.8	B1/500		G1/500
BVH (80°-90°)	1.5	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°	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6
2.5°	4143.4	4186.1	4179.7	4194.7	4230.9	4245.8	4286.3	4331.1	4393.0	4435.6	4463.4
5°	3710.6	3742.5	3746.8	3821.4	3857.7	3898.2	4017.6	4147.7	4292.7	4407.8	4484.6
7.5°	3247.8	3264.8	3299.0	3397.1	3488.8	3529.3	3710.6	3936.6	4164.8	4380.2	4518.8
10°	2866.0	2885.3	2947.1	3051.6	3136.9	3190.2	3441.9	3725.5	4045.4	4365.2	4567.8
12.5°	2648.6	2659.2	2682.7	2776.5	2885.3	2942.8	3213.7	3537.8	3949.4	4371.6	4651.0
15°	2633.6	2629.4	2601.6	2640.1	2738.1	2797.8	3062.2	3409.8	3864.1	4393.0	4749.0
17.5°	2712.6	2701.9	2635.8	2635.8	2716.8	2765.9	2998.2	3341.6	3821.4	4442.0	4887.6
20°	2834.1	2817.0	2708.3	2699.8	2778.7	2829.8	3036.7	3345.9	3830.0	4533.7	5073.2
22.5°	2987.7	2968.4	2804.2	2808.5	2893.8	2945.0	3147.5	3422.6	3883.2	4646.7	5271.6
25°	3188.1	3166.8	2972.7	2964.2	3053.8	3098.5	3311.8	3559.1	3957.9	4787.5	5531.7
27.5°	3454.7	3409.8	3177.4	3164.6	3260.6	3318.2	3510.1	3742.5	4090.1	4981.5	5881.4
30°	3674.3	3625.2	3403.4	3369.4	3471.7	3516.5	3714.8	3989.9	4350.3	5320.6	6365.5
32.5°	3962.2	3889.7	3629.5	3539.9	3648.7	3706.3	4011.2	4450.5	4736.3	5678.9	6941.3
35°	4610.4	4565.7	4247.9	3934.5	3928.1	4000.6	4448.4	4915.4	5133.0	6237.5	7726.0
37.5°	5538.1	5506.1	5169.2	4749.0	4627.5	4593.4	4979.4	5427.2	5766.2	7005.3	8638.8
40°	6615.0	6540.4	6231.1	5875.1	5717.2	5617.0	5606.4	6188.5	6593.7	8048.0	9589.8
42.5°	7387.0	7250.5	6875.2	6849.6	6815.5	6710.9	6408.2	7301.6	7662.1	9169.8	10607.0
45°	8197.3	7990.4	7431.7	7335.8	7323.0	7316.6	7619.4	8619.6	8826.4	10385.3	11652.0
47.5°	8826.4	8662.2	8203.7	8161.1	8214.4	8359.4	9220.9	10018.5	9975.9	11468.5	12528.4
50°	9664.4	9540.8	9031.1	9112.2	9387.2	9624.0	11027.1	11543.2	10920.6	12321.6	13166.0
52.5°	10654.0	10425.8	9952.4	10172.0	10594.2	10988.8	12944.3	12878.1	11583.7	12963.4	13641.6
55°	11511.2	11349.1	11187.1	11415.2	12046.5	12539.1	14675.9	13878.3	12065.7	13479.5	13850.6
57.5°	12961.3	12922.9	12756.6	12989.0	13754.6	14266.4	16226.2	14654.5	12374.9	13748.2	13605.4
60°	15106.6	15044.7	14735.6	15031.9	16030.0	16834.0	17654.9	15351.9	12445.3	13643.7	12899.4
62.5°	17686.9	17475.8	17211.4	17648.6	19017.6	19371.6	19000.5	15765.6	12183.0	12812.0	11197.7
65°	20096.6	19879.1	19885.5	20806.8	22297.3	22538.4	20570.0	15703.7	11415.2	10728.6	8259.1
67.5°	21941.3	21905.0	22165.1	23962.9	25912.0	25745.6	21973.2	14778.2	9139.9	6954.1	4388.7
70°	22035.0	22105.4	22851.8	25886.4	27865.4	27600.9	21853.8	12012.3	5698.0	3198.7	1729.4
71°	20900.6	21374.0	22406.2	25826.7	27980.5	27637.1	20847.3	10061.1	4179.7	2230.6	1247.5
72.5°	17810.6	18060.1	20290.7	24306.2	27069.9	26336.3	18294.7	7052.2	2676.3	1364.8	716.5
75°	9809.5	10423.6	13588.3	19068.7	21651.2	21007.3	11922.8	3350.1	1334.9	746.4	296.5
77.5°	4670.2	4550.7	6629.9	11340.6	14680.1	14646.0	6007.3	1488.5	778.3	505.4	149.3
80°	1334.9	1501.3	2537.6	5391.0	8150.4	8239.9	2307.4	718.6	539.5	394.5	76.8
82.5°	403.0	411.6	931.9	2384.2	4053.9	3821.4	865.8	366.8	388.1	313.4	44.7
85°	70.4	87.5	275.1	840.2	1546.1	1172.9	217.5	174.8	255.9	206.9	25.6
87.5°	4.3	6.4	91.7	96.0	136.5	78.9	38.3	25.6	55.4	55.4	14.9
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°	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6	4467.6
2.5°	4482.5	4495.3	4486.7	4467.6	4435.6	4397.2	4346.0	4303.4	4267.1	4247.9	4271.4
5°	4510.2	4527.3	4484.6	4388.7	4243.7	4085.8	3906.7	3768.1	3659.4	3625.2	3612.4
7.5°	4552.8	4563.5	4448.4	4235.1	3928.1	3554.9	3228.6	2953.5	2740.2	2676.3	2582.5
10°	4608.3	4602.0	4384.4	3987.8	3448.3	2887.4	2382.0	2006.7	1723.0	1620.7	1612.2
12.5°	4693.6	4659.5	4303.4	3650.9	2876.7	2143.1	1518.3	1187.8	1008.7	949.0	936.2
15°	4800.3	4719.2	4175.4	3256.4	2202.8	1383.9	936.2	836.0	812.5	808.2	803.9
17.5°	4926.1	4798.2	4006.9	2772.3	1548.2	897.8	782.6	780.5	782.6	778.3	776.2
20°	5096.6	4881.2	3806.5	2198.6	1023.6	757.1	746.4	746.4	748.5	746.4	746.4
22.5°	5277.9	4979.4	3559.1	1678.3	772.0	718.6	716.5	720.8	725.0	722.9	722.9
25°	5501.8	5107.3	3232.9	1149.4	691.0	686.7	688.8	697.4	705.9	708.0	705.9
27.5°	5825.9	5265.2	2883.1	791.1	633.4	637.6	658.9	680.3	693.1	695.2	695.2
30°	6190.6	5440.0	2426.8	641.9	586.4	586.4	612.0	652.5	680.3	684.5	686.7
32.5°	6659.8	5642.6	1921.3	577.9	541.7	537.4	560.9	609.9	661.1	676.0	676.0
35°	7239.8	5881.4	1428.8	537.4	509.6	499.0	511.8	552.3	618.4	661.1	665.3
37.5°	7920.1	6107.5	1044.9	501.2	479.8	464.9	473.4	505.4	558.7	622.7	639.7
40°	8549.2	6307.9	780.5	471.3	449.9	439.3	445.7	460.6	505.4	565.2	575.7
42.5°	9235.9	6463.6	620.6	439.3	420.1	415.9	415.9	422.3	452.1	486.2	488.4
45°	9920.4	6519.0	520.3	400.9	388.1	392.4	390.2	386.0	398.8	394.5	394.5
47.5°	10408.7	6452.9	430.8	364.7	364.7	371.0	360.4	345.5	339.1	313.4	315.6
50°	10743.5	6212.0	354.0	322.0	339.1	347.6	326.3	302.8	279.4	251.6	245.2
52.5°	10882.1	5783.3	290.1	266.6	300.7	311.3	285.8	258.0	221.8	198.3	191.9
55°	10792.6	5254.5	240.9	217.5	253.7	266.6	240.9	209.0	168.5	142.9	138.6
57.5°	10398.0	4623.2	204.7	172.7	202.6	211.1	194.0	160.0	119.4	93.9	93.9
60°	9715.7	3970.7	166.3	136.5	151.4	164.2	147.2	115.1	81.1	57.6	53.3
62.5°	8331.7	3224.3	134.3	106.6	106.6	117.3	102.3	83.2	51.2	29.9	27.8
65°	6015.8	2211.4	106.6	78.9	76.8	76.8	64.0	55.4	29.9	12.8	8.5
67.5°	3269.1	1247.5	85.3	59.7	53.3	51.2	40.5	32.0	12.8	2.1	0.0
70°	1285.9	479.8	66.1	40.5	34.1	32.0	21.4	14.9	8.5	0.0	0.0
71°	872.2	330.5	57.6	34.1	27.8	23.5	17.1	12.8	6.4	0.0	0.0
72.5°	499.0	204.7	44.7	25.6	21.4	17.1	12.8	8.5	6.4	0.0	0.0
75°	217.5	104.5	27.8	19.2	14.9	10.7	8.5	6.4	2.1	0.0	0.0
77.5°	110.9	57.6	19.2	14.9	8.5	6.4	4.3	2.1	0.0	0.0	0.0
80°	61.8	29.9	12.8	8.5	6.4	4.3	2.1	2.1	0.0	0.0	0.0
82.5°	34.1	17.1	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.4	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	4.3	0.0	0.0	0.0	0.0	2.1	2.1	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)