

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: P458074

Luminaire Tested: **GALN-SA9C-722-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458074
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-SA9C-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 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: 33738 lumens
Efficiency: N/A
Efficacy: 70.1 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

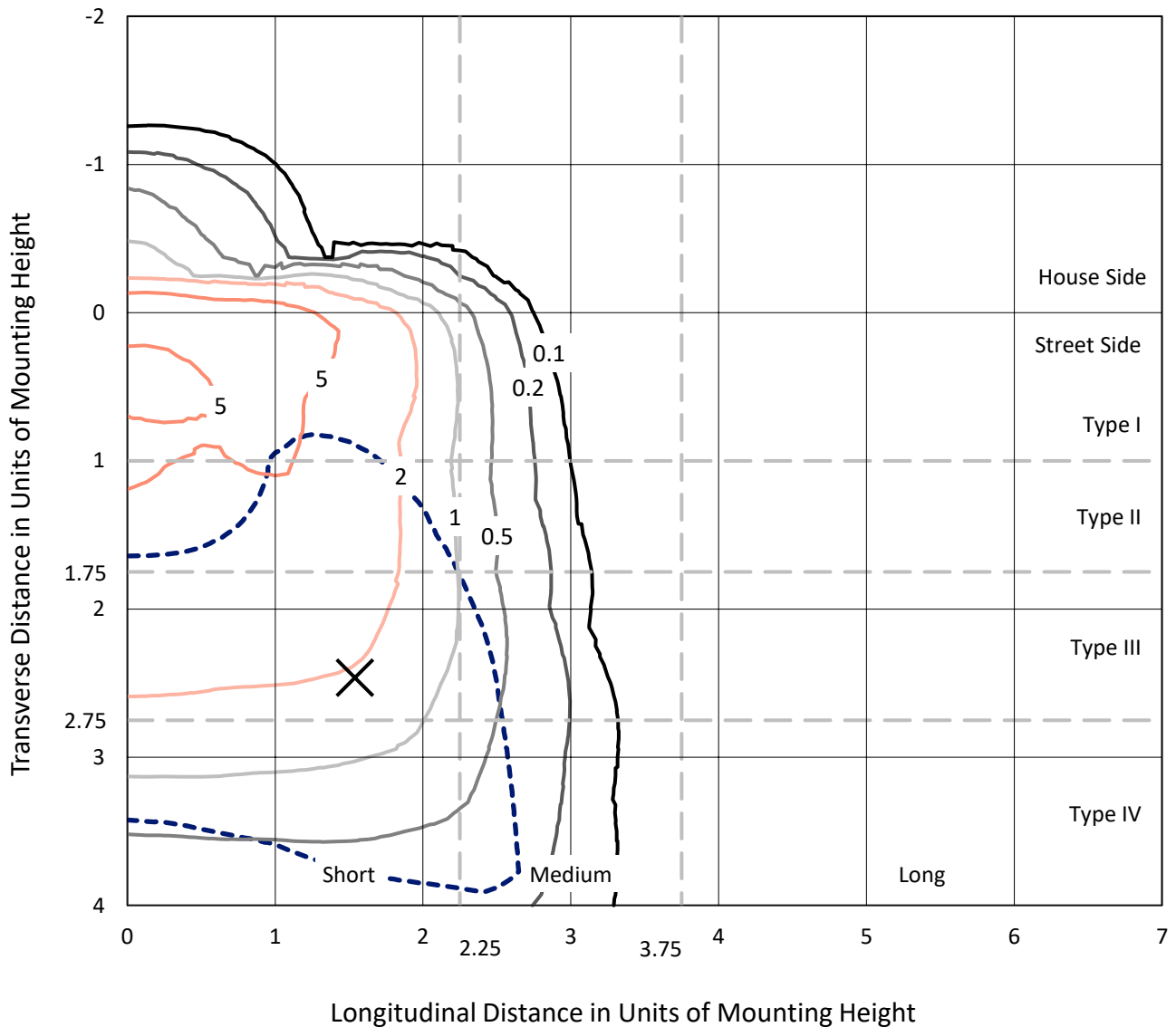
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

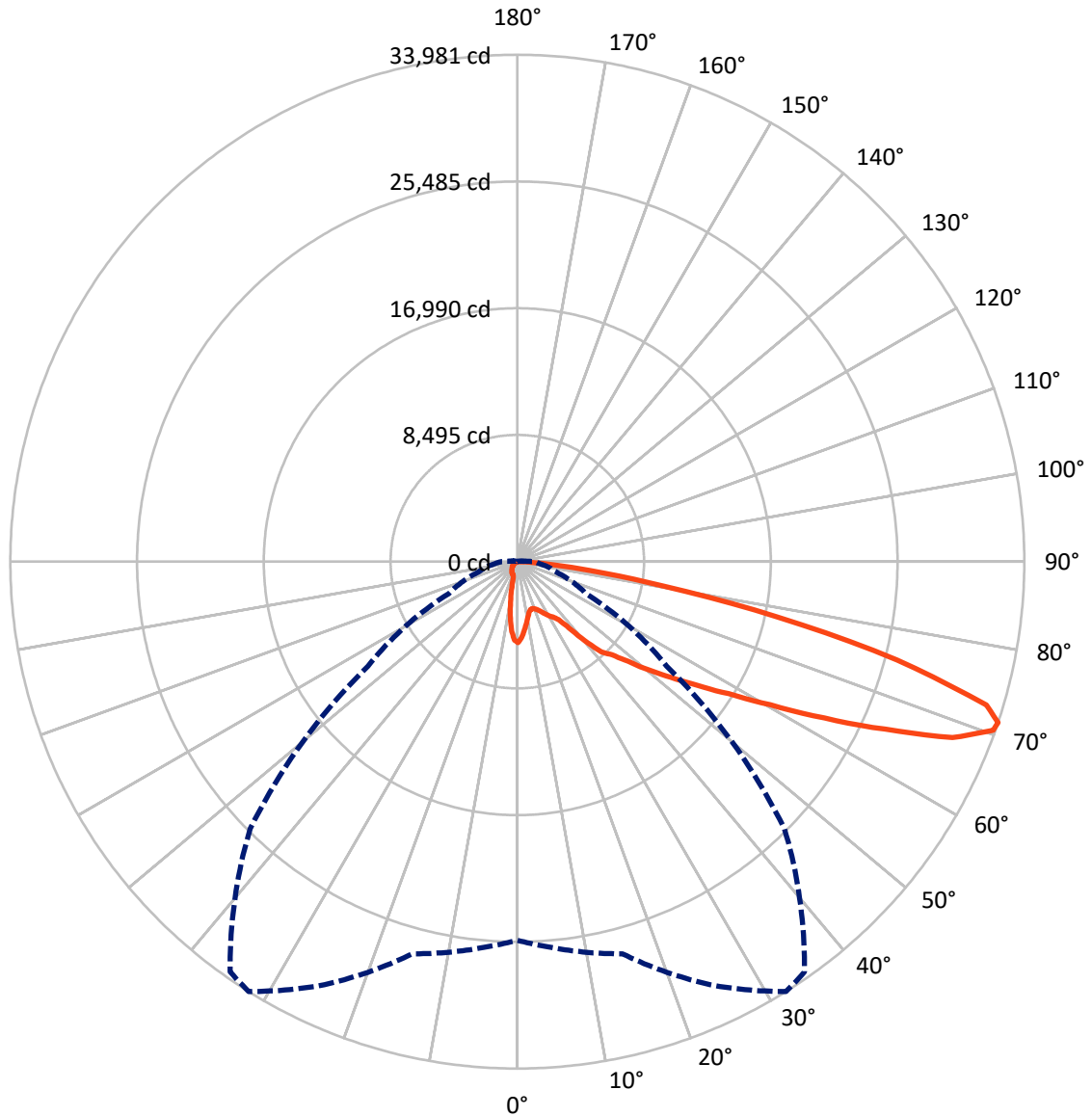
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2825.9	0.0	2825.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30912.1	0.0	30912.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	33738.0	0.0	33738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	1.3
10°-20°	957.5	2.8
20°-30°	1489.6	4.4
30°-40°	2481.6	7.4
40°-50°	4616.2	13.7
50°-60°	7411.5	22.0
60°-70°	9968.8	29.5
70°-80°	5914.6	17.5
80°-90°	457.2	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°	33738.0	100.0
0°-180°	33738.0	100.0

Coefficient of Utilization



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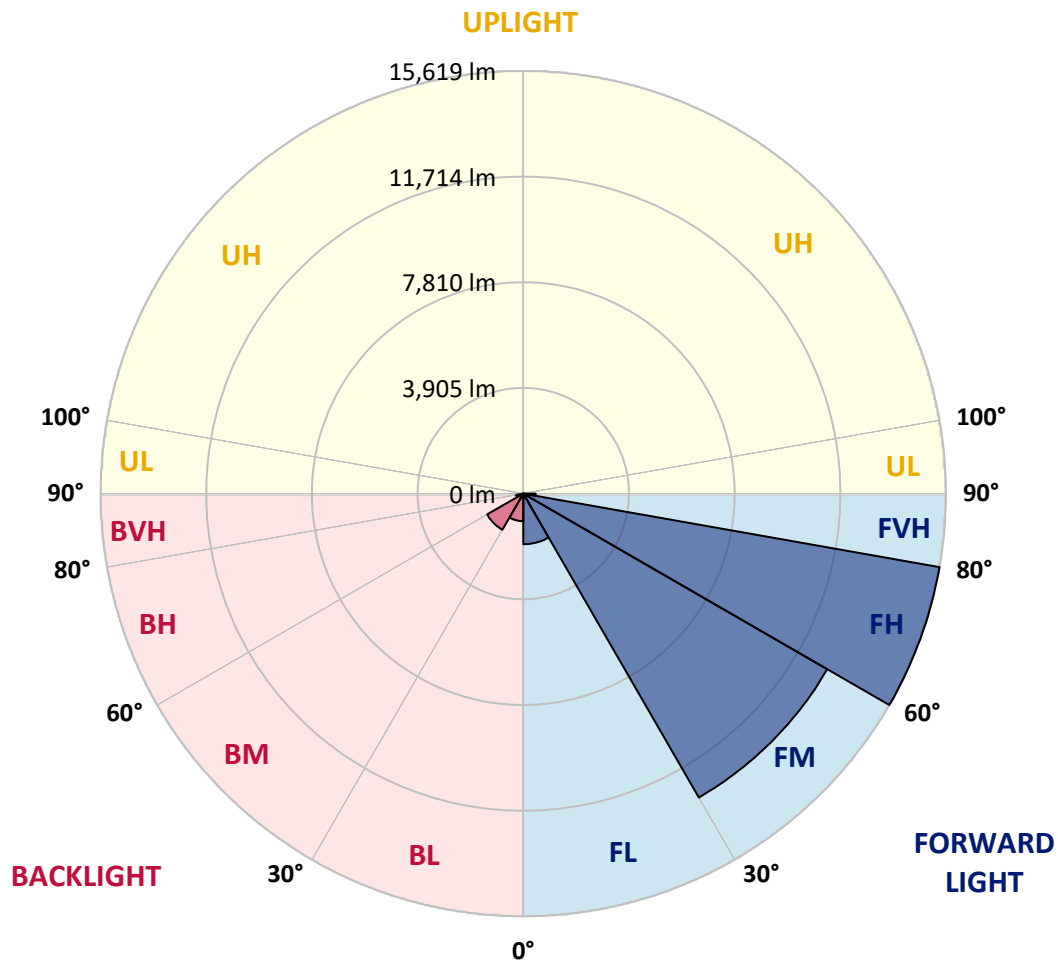
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1870.0	5.5			
FM	(30°-60°)	12967.6	38.4			
FH	(60°-80°)	15619.1	46.3			G5
FVH	(80°-90°)	455.4	1.3			G3/500
BL	(0°-30°)	1018.2	3.0	B3/2500		
BM	(30°-60°)	1541.6	4.6	B2/2500		
BH	(60°-80°)	264.3	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°	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6
2.5°	5032.0	5083.7	5076.0	5094.1	5138.1	5156.3	5205.5	5259.9	5335.0	5386.8	5420.4
5°	4506.2	4545.1	4550.3	4640.9	4684.9	4734.1	4879.2	5037.1	5213.2	5353.1	5446.3
7.5°	3944.2	3965.0	4006.4	4125.5	4236.9	4286.1	4506.2	4780.7	5057.8	5319.4	5487.8
10°	3480.7	3504.0	3579.1	3706.0	3809.6	3874.3	4179.9	4524.4	4912.8	5301.3	5547.3
12.5°	3216.5	3229.5	3257.9	3371.9	3504.0	3573.9	3902.8	4296.5	4796.3	5309.1	5648.3
15°	3198.4	3193.2	3159.5	3206.2	3325.3	3397.8	3718.9	4141.1	4692.7	5335.0	5767.4
17.5°	3294.2	3281.3	3201.0	3201.0	3299.4	3358.9	3641.2	4058.2	4640.9	5394.5	5935.8
20°	3441.8	3421.1	3289.0	3278.7	3374.5	3436.6	3687.9	4063.4	4651.3	5505.9	6161.1
22.5°	3628.3	3605.0	3405.6	3410.7	3514.3	3576.5	3822.5	4156.6	4716.0	5643.1	6401.9
25°	3871.7	3845.8	3610.2	3599.8	3708.6	3763.0	4021.9	4322.3	4806.6	5814.1	6717.9
27.5°	4195.5	4141.1	3858.8	3843.2	3959.8	4029.7	4262.8	4545.1	4967.2	6049.7	7142.6
30°	4462.2	4402.6	4133.3	4091.9	4216.2	4270.6	4511.4	4845.5	5283.2	6461.5	7730.5
32.5°	4811.8	4723.8	4407.8	4299.0	4431.1	4501.0	4871.4	5404.9	5751.9	6896.6	8429.7
35°	5599.1	5544.7	5158.8	4778.2	4770.4	4858.4	5402.3	5969.5	6233.6	7575.1	9382.8
37.5°	6725.7	6686.8	6277.6	5767.4	5619.8	5578.4	6047.1	6591.0	7002.8	8507.4	10491.2
40°	8033.5	7942.9	7567.3	7134.9	6943.2	6821.5	6808.5	7515.6	8007.6	9773.8	11646.3
42.5°	8971.0	8805.3	8349.5	8318.4	8276.9	8150.1	7782.3	8867.4	9305.1	11136.1	12881.6
45°	9955.1	9703.9	9025.4	8908.9	8893.3	8885.5	9253.3	10467.9	10719.1	12612.2	14150.6
47.5°	10719.1	10519.7	9962.9	9911.1	9975.8	10152.0	11198.2	12166.8	12115.0	13927.9	15215.0
50°	11736.9	11586.7	10967.7	11066.1	11400.2	11687.7	13391.8	14018.5	13262.3	14963.8	15989.3
52.5°	12938.6	12661.5	12086.5	12353.3	12866.0	13345.2	15720.0	15639.7	14067.7	15743.3	16566.8
55°	13979.7	13782.8	13586.0	13863.1	14629.7	15227.9	17822.9	16854.3	14653.0	16370.0	16820.6
57.5°	15740.7	15694.1	15492.1	15774.4	16704.1	17325.7	19705.7	17797.0	15028.5	16696.3	16522.8
60°	18346.0	18270.9	17895.4	18255.4	19467.4	20443.8	21440.8	18643.9	15114.0	16569.4	15665.6
62.5°	21479.7	21223.3	20902.1	21433.1	23095.7	23525.6	23075.0	19146.3	14795.4	15559.4	13599.0
65°	24406.1	24142.0	24149.7	25268.5	27078.8	27371.4	24981.1	19071.2	13863.1	13029.2	10030.2
67.5°	26646.3	26602.3	26918.2	29101.4	31468.5	31266.5	26685.1	17947.2	11099.8	8445.3	5329.8
70°	26760.2	26845.7	27752.1	31437.4	33840.7	33519.6	26540.1	14588.3	6919.9	3884.7	2100.3
71°	25382.5	25957.4	27210.9	31364.9	33980.6	33563.6	25317.7	12218.6	5076.0	2708.9	1515.0
72.5°	21629.9	21932.9	24641.8	29518.4	32874.7	31983.8	22217.8	8564.4	3250.2	1657.5	870.2
75°	11913.0	12658.9	16502.1	23157.8	26294.1	25512.0	14479.5	4068.6	1621.2	906.4	360.0
77.5°	5671.6	5526.6	8051.6	13772.5	17828.1	17786.6	7295.4	1807.7	945.3	613.8	181.3
80°	1621.2	1823.2	3081.8	6547.0	9898.2	10006.9	2802.1	872.8	655.2	479.1	93.2
82.5°	489.5	499.8	1131.7	2895.4	4923.2	4640.9	1051.5	445.4	471.3	380.7	54.4
85°	85.5	106.2	334.1	1020.4	1877.6	1424.4	264.2	212.4	310.8	251.2	31.1
87.5°	5.2	7.8	111.4	116.5	165.7	95.8	46.6	31.1	67.3	67.3	18.1
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°	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6	5425.6
2.5°	5443.7	5459.3	5448.9	5425.6	5386.8	5340.1	5278.0	5226.2	5182.2	5158.8	5187.3
5°	5477.4	5498.1	5446.3	5329.8	5153.7	4962.0	4744.5	4576.1	4444.1	4402.6	4387.1
7.5°	5529.2	5542.1	5402.3	5143.3	4770.4	4317.2	3920.9	3586.9	3327.9	3250.2	3136.2
10°	5596.5	5588.8	5324.6	4842.9	4187.7	3506.6	2892.8	2437.0	2092.5	1968.2	1957.9
12.5°	5700.1	5658.7	5226.2	4433.7	3493.6	2602.7	1843.9	1442.5	1225.0	1152.5	1136.9
15°	5829.6	5731.2	5070.8	3954.6	2675.2	1680.8	1136.9	1015.2	986.7	981.5	976.3
17.5°	5982.4	5827.0	4866.2	3366.7	1880.2	1090.3	950.5	947.9	950.5	945.3	942.7
20°	6189.6	5928.0	4622.8	2670.1	1243.1	919.4	906.4	906.4	909.0	906.4	906.4
22.5°	6409.7	6047.1	4322.3	2038.2	937.5	872.8	870.2	875.3	880.5	877.9	877.9
25°	6681.6	6202.5	3926.1	1395.9	839.1	833.9	836.5	846.9	857.2	859.8	857.2
27.5°	7075.3	6394.2	3501.4	960.8	769.2	774.3	800.2	826.1	841.7	844.3	844.3
30°	7518.1	6606.5	2947.2	779.5	712.2	712.2	743.3	792.5	826.1	831.3	833.9
32.5°	8087.9	6852.6	2333.4	701.8	657.8	652.6	681.1	740.7	802.8	821.0	821.0
35°	8792.3	7142.6	1735.2	652.6	619.0	606.0	621.5	670.8	751.0	802.8	808.0
37.5°	9618.5	7417.1	1269.0	608.6	582.7	564.6	574.9	613.8	678.5	756.2	776.9
40°	10382.4	7660.6	947.9	572.3	546.4	533.5	541.3	559.4	613.8	686.3	699.2
42.5°	11216.4	7849.6	753.6	533.5	510.2	505.0	505.0	512.8	549.0	590.5	593.1
45°	12047.7	7917.0	631.9	486.9	471.3	476.5	473.9	468.8	484.3	479.1	479.1
47.5°	12640.7	7836.7	523.1	442.9	442.9	450.6	437.7	419.5	411.8	380.7	383.3
50°	13047.3	7544.0	429.9	391.1	411.8	422.1	396.2	367.7	339.3	305.6	297.8
52.5°	13215.7	7023.5	352.2	323.7	365.2	378.1	347.0	313.4	269.3	240.8	233.1
55°	13106.9	6381.2	292.6	264.2	308.2	323.7	292.6	253.8	204.6	173.5	168.3
57.5°	12627.8	5614.7	248.6	209.8	246.0	256.4	235.7	194.2	145.0	114.0	114.0
60°	11799.1	4822.2	202.0	165.7	183.9	199.4	178.7	139.8	98.4	69.9	64.7
62.5°	10118.3	3915.8	163.2	129.5	129.5	142.4	124.3	101.0	62.2	36.3	33.7
65°	7305.8	2685.6	129.5	95.8	93.2	93.2	77.7	67.3	36.3	15.5	10.4
67.5°	3970.1	1515.0	103.6	72.5	64.7	62.2	49.2	38.8	15.5	2.6	0.0
70°	1561.6	582.7	80.3	49.2	41.4	38.8	25.9	18.1	10.4	0.0	0.0
71°	1059.2	401.4	69.9	41.4	33.7	28.5	20.7	15.5	7.8	0.0	0.0
72.5°	606.0	248.6	54.4	31.1	25.9	20.7	15.5	10.4	7.8	0.0	0.0
75°	264.2	126.9	33.7	23.3	18.1	12.9	10.4	7.8	2.6	0.0	0.0
77.5°	134.7	69.9	23.3	18.1	10.4	7.8	5.2	2.6	0.0	0.0	0.0
80°	75.1	36.3	15.5	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0
82.5°	41.4	20.7	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.9	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	5.2	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)