

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: P454463

Luminaire Tested: **GALN-SA5C-750-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28961 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

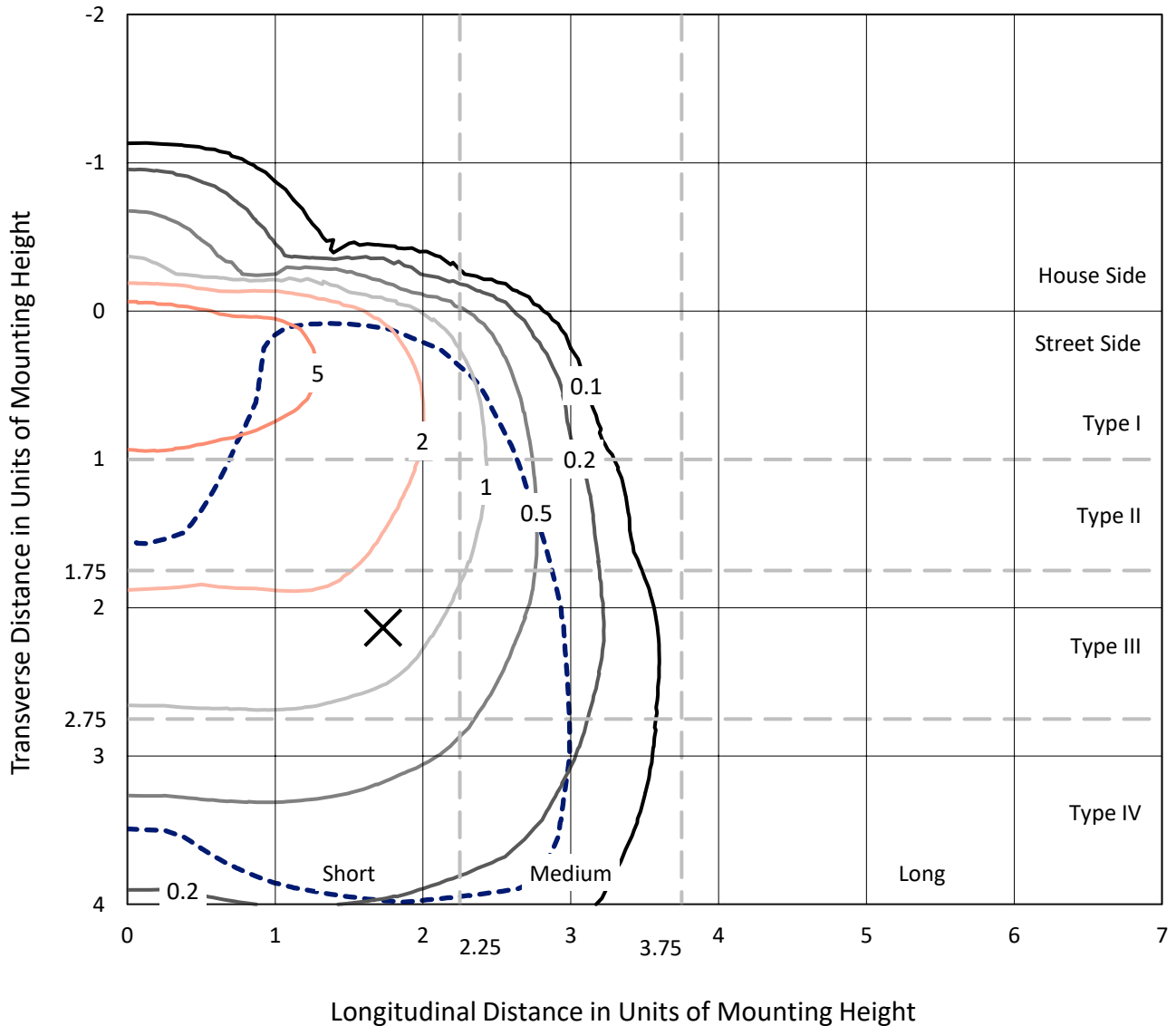
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

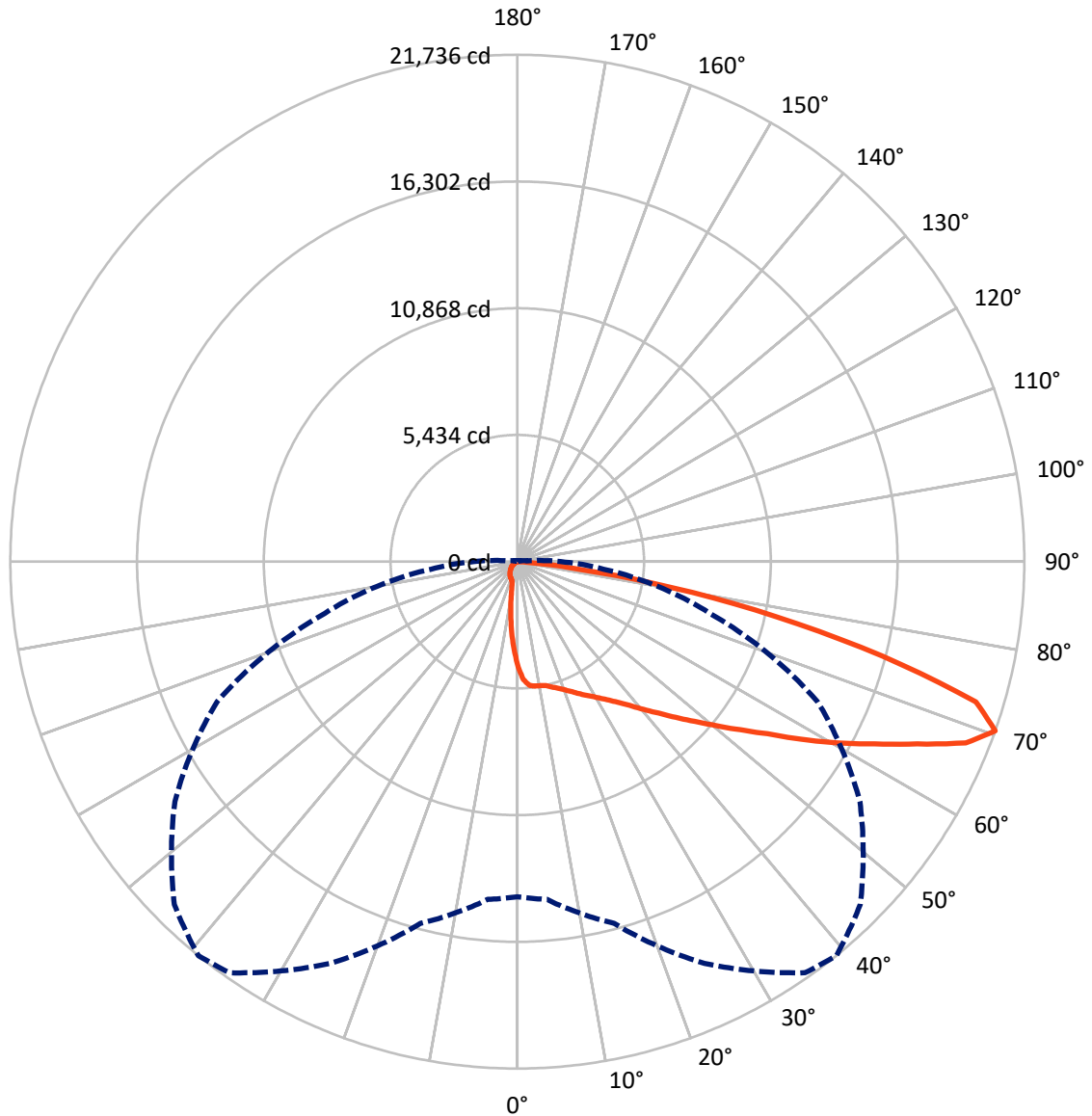
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.4	0.0	1888.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	27072.6	0.0	27072.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	28961.0	0.0	28961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	1.3
10°-20°	1001.6	3.5
20°-30°	1678.0	5.8
30°-40°	2602.4	9.0
40°-50°	4124.0	14.2
50°-60°	6045.1	20.9
60°-70°	7748.4	26.8
70°-80°	4868.8	16.8
80°-90°	507.2	1.8
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°	28961.0	100.0
0°-180°	28961.0	100.0

Coefficient of Utilization



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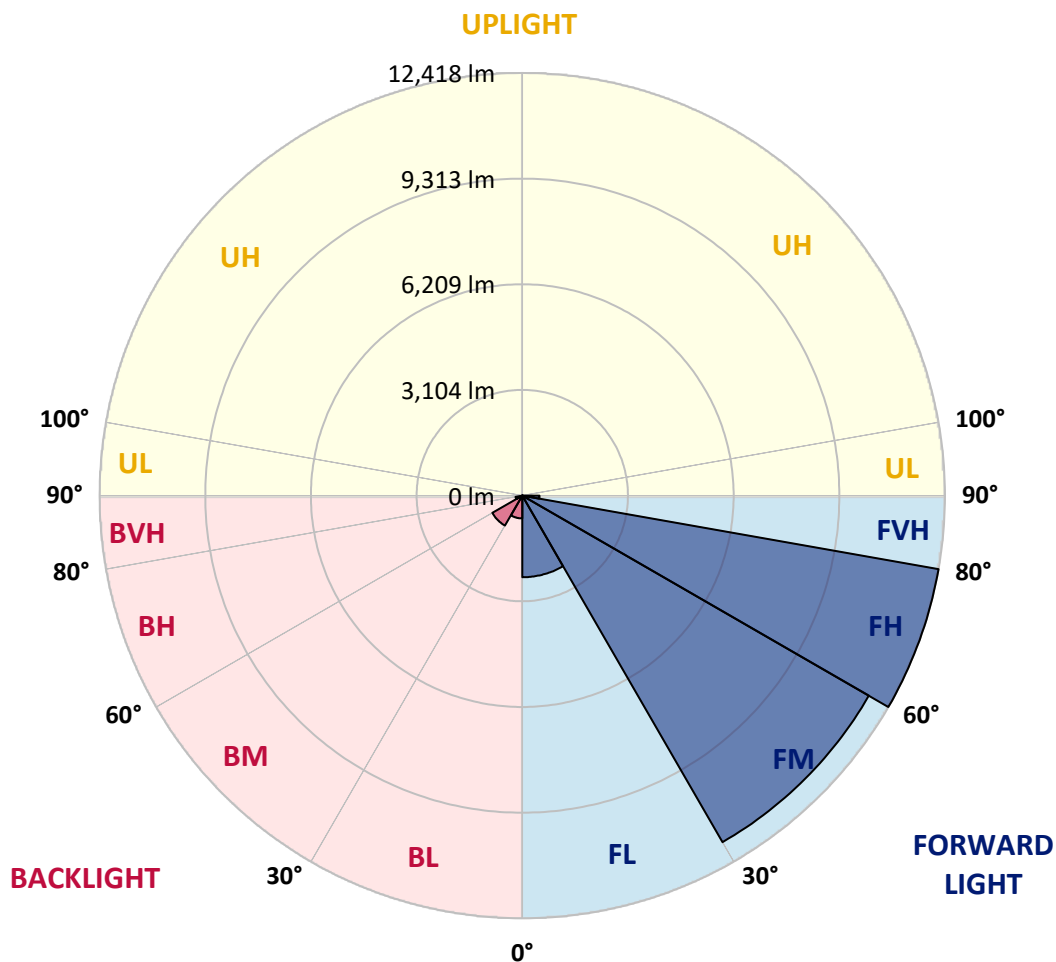
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.4	8.3			
FM (30°-60°)	11755.2	40.6			
FH (60°-80°)	12417.5	42.9			G5
FVH (80°-90°)	503.5	1.7			G4/750
BL (0°-30°)	668.7	2.3	B2/1000		
BM (30°-60°)	1016.3	3.5	B2/2500		
BH (60°-80°)	199.7	0.7	B1/500		G1/500
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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9
2.5°	5221.5	5203.9	5180.6	5153.3	5075.5	5061.9	5015.2	4915.9	4797.2	4699.9	4565.6
5°	5468.6	5478.4	5460.8	5412.2	5355.7	5322.7	5264.3	5110.5	4956.8	4760.2	4540.3
7.5°	5525.1	5544.5	5523.1	5476.4	5421.9	5386.9	5340.2	5207.8	5028.8	4805.0	4503.3
10°	5519.2	5542.6	5528.9	5486.1	5441.4	5408.3	5357.7	5252.6	5108.6	4873.1	4515.0
12.5°	5509.5	5540.6	5538.7	5517.3	5480.3	5455.0	5423.9	5330.4	5196.2	4972.4	4579.2
15°	5482.2	5521.2	5556.2	5573.7	5575.7	5575.7	5536.7	5437.5	5309.0	5102.7	4662.9
17.5°	5493.9	5538.7	5626.3	5676.9	5711.9	5708.0	5667.1	5560.1	5418.0	5237.0	4750.5
20°	5565.9	5626.3	5748.9	5850.1	5885.1	5873.4	5818.9	5694.4	5532.8	5351.9	4836.1
22.5°	5743.0	5797.5	5951.3	6070.0	6095.3	6064.1	5986.3	5817.0	5671.0	5476.4	4939.3
25°	6007.7	6071.9	6214.0	6303.5	6303.5	6286.0	6177.0	5978.5	5826.7	5649.6	5073.6
27.5°	6328.8	6383.3	6523.4	6603.2	6556.5	6505.9	6396.9	6157.5	6011.6	5867.6	5235.1
30°	6653.8	6688.8	6836.7	6871.8	6823.1	6758.9	6642.1	6402.8	6274.3	6163.4	5468.6
32.5°	6961.3	7037.2	7159.8	7152.0	7085.9	7054.7	6947.7	6692.7	6620.7	6609.1	5795.6
35°	7268.8	7327.2	7436.2	7463.4	7405.0	7399.2	7321.3	7132.6	7134.5	7210.4	6305.5
37.5°	7533.5	7586.0	7714.5	7774.8	7786.5	7815.7	7784.5	7660.0	7837.1	8045.3	6980.8
40°	7755.3	7829.3	7992.7	8097.8	8218.5	8325.5	8331.4	8358.6	8714.8	9072.8	7862.4
42.5°	7928.5	8031.7	8269.1	8463.7	8740.1	8876.3	8985.3	9135.1	9734.5	10269.7	8901.6
45°	8154.3	8273.0	8568.8	8874.3	9306.4	9530.2	9682.0	10082.9	10933.3	11663.1	9968.1
47.5°	8527.9	8590.2	8891.9	9337.5	9905.8	10225.0	10520.8	11128.0	12219.7	12873.6	10855.5
50°	9008.6	9049.5	9277.2	9896.1	10631.7	11052.1	11591.1	12305.4	13554.8	13877.8	11357.6
52.5°	9539.9	9553.5	9724.8	10511.0	11445.2	11974.5	12577.8	13459.4	14642.7	14594.0	11690.4
55°	10156.8	10137.4	10283.3	11178.6	12408.5	13013.8	13716.3	14640.7	15586.5	15102.0	11881.1
57.5°	10863.3	10810.7	10952.8	12064.0	13642.4	14366.3	15080.5	15660.5	16318.3	15528.2	11972.6
60°	11602.8	11497.7	11667.0	13058.5	15096.1	15783.1	16376.7	16532.4	17089.0	15866.8	11814.9
62.5°	12192.5	12194.4	12509.7	14117.2	16590.7	17192.1	17507.4	17647.5	17752.6	15792.8	10985.9
65°	13113.0	13144.1	13648.2	15586.5	18320.8	18842.4	19058.4	18603.0	17781.8	14874.3	9740.4
67.5°	14062.7	14162.0	15084.4	17610.5	20319.5	20739.9	20461.6	18787.9	16987.8	12778.3	7385.6
70°	14372.2	14535.6	16055.6	19003.9	21518.3	21736.3	20794.4	17925.8	14200.9	8543.5	3717.1
72.5°	13169.4	13434.1	15497.0	18496.0	20753.5	20564.7	18605.0	15033.8	9028.1	3244.2	1134.6
75°	9286.9	9403.7	12879.5	15343.3	16691.9	16156.8	14152.2	9691.7	3713.2	910.8	389.2
77.5°	4795.3	4738.8	7660.0	10180.2	11904.5	11349.8	9267.5	5017.1	1407.1	379.5	241.3
80°	2479.4	2520.2	3314.3	5334.3	7266.8	6686.9	4941.2	2325.6	749.3	210.2	184.9
82.5°	1389.5	1303.9	1905.3	2329.5	3397.9	2664.2	1895.5	1646.4	326.9	126.5	175.2
85°	253.0	264.7	1045.1	1259.1	1179.4	749.3	611.1	1099.6	95.4	70.1	122.6
87.5°	3.9	3.9	202.4	362.0	229.6	105.1	192.7	157.6	19.5	27.2	21.4
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°	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9	4518.9
2.5°	4497.5	4423.5	4285.4	4149.1	3975.9	3833.9	3738.5	3639.3	3538.1	3545.8	3569.2
5°	4419.7	4291.2	4018.8	3730.7	3454.4	3205.3	2960.1	2740.1	2650.6	2568.9	2572.8
7.5°	4341.8	4160.8	3761.9	3310.4	2891.9	2467.7	2160.2	1907.2	1772.9	1671.7	1642.5
10°	4306.8	4067.4	3526.4	2905.6	2312.0	1848.8	1453.8	1247.5	1087.9	1037.3	1050.9
12.5°	4322.4	4020.7	3314.3	2539.7	1833.3	1288.3	1012.0	906.9	871.9	866.0	862.1
15°	4351.5	3987.6	3106.0	2134.9	1346.7	957.5	850.5	831.0	827.1	823.2	825.2
17.5°	4390.5	3958.4	2884.2	1755.4	1033.4	836.8	805.7	796.0	794.0	794.0	794.0
20°	4429.4	3925.3	2637.0	1416.8	862.1	790.1	770.7	764.8	762.9	762.9	760.9
22.5°	4474.1	3896.1	2386.0	1113.2	794.0	757.0	739.5	735.6	733.7	731.7	731.7
25°	4538.4	3859.2	2119.3	910.8	751.2	725.9	708.4	704.5	702.6	694.8	696.7
27.5°	4624.0	3831.9	1844.9	786.2	712.3	687.0	675.3	669.5	665.6	659.7	661.7
30°	4740.8	3808.6	1553.0	718.1	667.5	646.1	634.4	630.5	626.7	620.8	620.8
32.5°	4943.2	3818.3	1245.5	663.6	626.7	601.4	589.7	585.8	581.9	576.1	576.1
35°	5246.8	3874.7	996.4	616.9	578.0	552.7	541.0	541.0	535.2	527.4	525.5
37.5°	5743.0	4018.8	799.9	572.2	531.3	507.9	494.3	490.4	484.6	472.9	471.0
40°	6328.8	4242.6	673.4	527.4	488.5	465.1	453.4	441.8	426.2	414.5	412.6
42.5°	7064.4	4472.2	583.8	482.6	447.6	426.2	412.6	393.1	369.8	354.2	352.2
45°	7831.2	4682.4	523.5	441.8	408.7	391.2	375.6	344.5	315.3	295.8	293.9
47.5°	8403.4	4721.3	474.9	402.8	375.6	358.1	336.7	297.8	258.8	241.3	235.5
50°	8673.9	4532.5	424.3	363.9	342.5	323.1	295.8	251.1	208.2	186.8	182.9
52.5°	8769.3	4205.6	383.4	328.9	309.4	286.1	253.0	202.4	163.5	142.1	140.1
55°	8730.3	3793.0	346.4	295.8	270.5	243.3	210.2	161.5	120.7	103.1	99.3
57.5°	8526.0	3267.5	309.4	262.7	231.6	204.3	167.4	120.7	81.7	66.2	64.2
60°	7975.2	2551.4	272.5	225.8	196.6	167.4	132.3	85.6	50.6	37.0	37.0
62.5°	7045.0	1893.6	237.4	188.8	165.4	134.3	93.4	54.5	27.2	19.5	17.5
65°	5887.0	1397.3	198.5	159.6	138.2	105.1	66.2	33.1	13.6	5.8	3.9
67.5°	4108.3	862.1	165.4	130.4	112.9	75.9	40.9	13.6	5.8	0.0	0.0
70°	1866.3	410.6	126.5	99.3	85.6	54.5	21.4	7.8	3.9	0.0	0.0
72.5°	579.9	216.0	89.5	72.0	58.4	35.0	11.7	5.8	3.9	0.0	0.0
75°	268.6	138.2	56.4	38.9	33.1	17.5	7.8	3.9	1.9	0.0	0.0
77.5°	200.5	107.0	33.1	21.4	17.5	11.7	5.8	3.9	1.9	0.0	0.0
80°	175.2	54.5	19.5	13.6	9.7	7.8	3.9	1.9	0.0	0.0	0.0
82.5°	157.6	27.2	11.7	7.8	5.8	3.9	1.9	1.9	0.0	0.0	0.0
85°	85.6	15.6	7.8	5.8	3.9	1.9	1.9	0.0	0.0	0.0	0.0
87.5°	15.6	7.8	5.8	3.9	3.9	1.9	1.9	1.9	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)