

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: P454202

Luminaire Tested: **GALN-SA5B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454202
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-SA5B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 23440 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

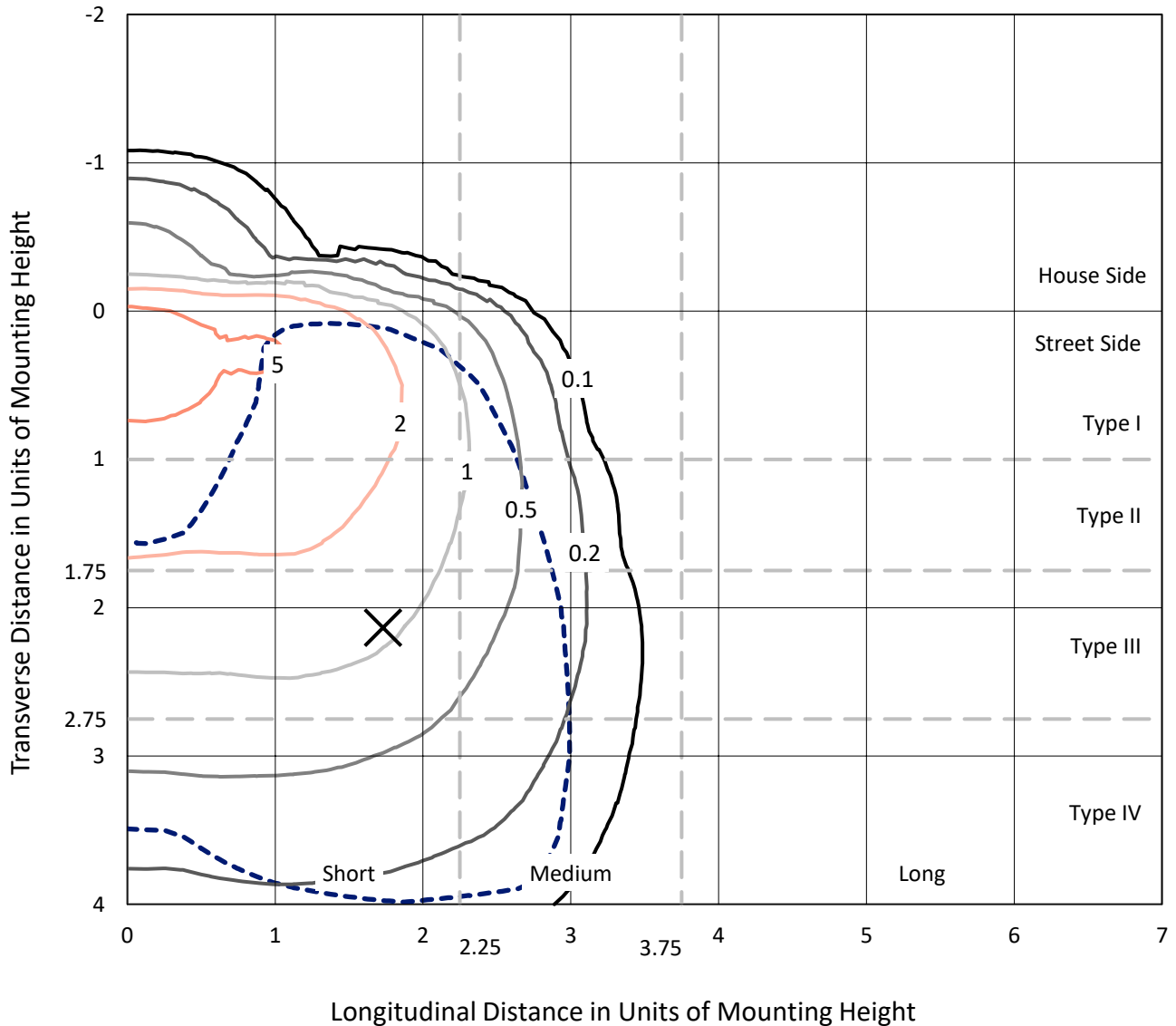
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

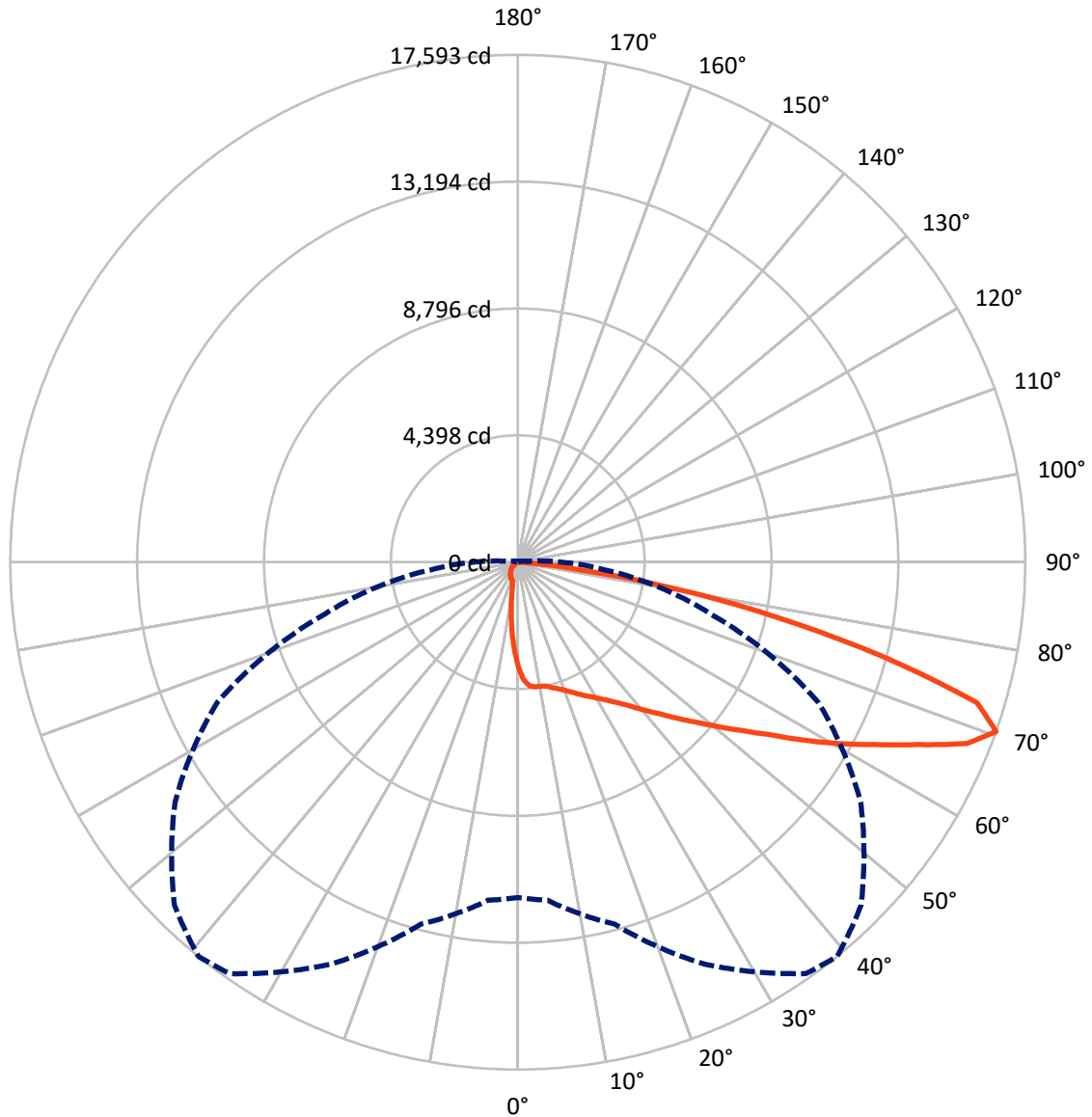
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	1528.4	0.0	1528.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	21911.6	0.0	21911.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	23440.0	0.0	23440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	1.3
10°-20°	810.7	3.5
20°-30°	1358.1	5.8
30°-40°	2106.3	9.0
40°-50°	3337.8	14.2
50°-60°	4892.7	20.9
60°-70°	6271.3	26.8
70°-80°	3940.7	16.8
80°-90°	410.5	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°	23440.0	100.0
0°-180°	23440.0	100.0

Coefficient of Utilization



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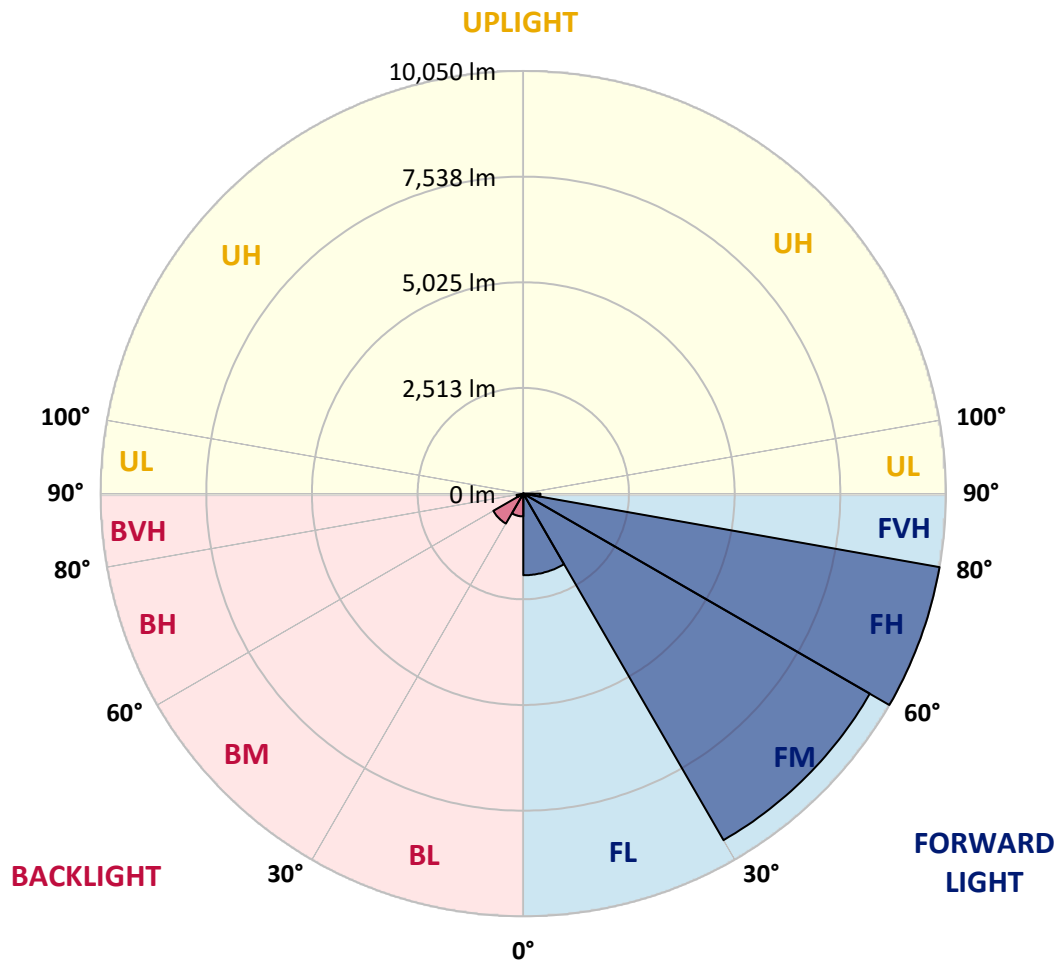
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1939.5	8.3			
FM	(30°-60°)	9514.2	40.6			
FH	(60°-80°)	10050.3	42.9			G4/12000
FVH	(80°-90°)	407.5	1.7			G3/500
BL	(0°-30°)	541.2	2.3	B2/1000		
BM	(30°-60°)	822.5	3.5	B1/1000		
BH	(60°-80°)	161.7	0.7	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4
2.5°	4226.1	4211.9	4193.0	4170.9	4107.9	4096.9	4059.1	3978.8	3882.7	3803.9	3695.2
5°	4426.1	4434.0	4419.8	4380.4	4334.7	4308.0	4260.7	4136.3	4011.8	3852.8	3674.8
7.5°	4471.8	4487.5	4470.2	4432.4	4388.3	4360.0	4322.1	4215.0	4070.1	3889.0	3644.8
10°	4467.1	4486.0	4474.9	4440.3	4404.1	4377.3	4336.3	4251.3	4134.7	3944.1	3654.3
12.5°	4459.2	4484.4	4482.8	4465.5	4435.6	4415.1	4389.9	4314.3	4205.6	4024.4	3706.3
15°	4437.1	4468.6	4497.0	4511.2	4512.7	4512.7	4481.2	4400.9	4296.9	4130.0	3774.0
17.5°	4446.6	4482.8	4553.7	4594.6	4623.0	4619.8	4586.8	4500.1	4385.2	4238.7	3844.9
20°	4504.9	4553.7	4652.9	4734.8	4763.2	4753.7	4709.6	4608.8	4478.1	4331.6	3914.2
22.5°	4648.2	4692.3	4816.7	4912.8	4933.3	4908.1	4845.1	4708.1	4589.9	4432.4	3997.7
25°	4862.4	4914.4	5029.4	5101.8	5101.8	5087.7	4999.5	4838.8	4715.9	4572.6	4106.4
27.5°	5122.3	5166.4	5279.8	5344.4	5306.6	5265.6	5177.4	4983.7	4865.6	4749.0	4237.1
30°	5385.4	5413.7	5533.4	5561.8	5522.4	5470.4	5375.9	5182.2	5078.2	4988.4	4426.1
32.5°	5634.2	5695.7	5794.9	5788.6	5735.0	5709.8	5623.2	5416.9	5358.6	5349.1	4690.7
35°	5883.1	5930.4	6018.6	6040.6	5993.4	5988.6	5925.6	5772.8	5774.4	5835.8	5103.4
37.5°	6097.3	6139.8	6243.8	6292.6	6302.1	6325.7	6300.5	6199.7	6343.0	6511.6	5650.0
40°	6276.9	6336.7	6469.0	6554.1	6651.8	6738.4	6743.1	6765.2	7053.4	7343.2	6363.5
42.5°	6417.1	6500.5	6692.7	6850.2	7073.9	7184.2	7272.4	7393.6	7878.8	8311.9	7204.6
45°	6599.8	6695.9	6935.3	7182.6	7532.3	7713.4	7836.3	8160.7	8849.1	9439.7	8067.8
47.5°	6902.2	6952.6	7196.8	7557.5	8017.4	8275.7	8515.1	9006.6	9890.2	10419.5	8786.1
50°	7291.3	7324.3	7508.6	8009.5	8604.9	8945.1	9381.5	9959.5	10970.8	11232.2	9192.4
52.5°	7721.3	7732.3	7870.9	8507.3	9263.3	9691.8	10180.0	10893.6	11851.3	11811.9	9461.8
55°	8220.6	8204.8	8323.0	9047.5	10043.0	10532.9	11101.5	11849.7	12615.2	12223.0	9616.1
57.5°	8792.4	8749.8	8864.8	9764.2	11041.6	11627.6	12205.7	12675.0	13207.4	12567.9	9690.2
60°	9390.9	9305.8	9442.9	10569.1	12218.3	12774.3	13254.7	13380.7	13831.2	12842.0	9562.6
62.5°	9868.2	9869.7	10124.9	11426.0	13428.0	13914.7	14169.8	14283.2	14368.3	12782.2	8891.6
65°	10613.2	10638.4	11046.4	12615.2	14828.2	15250.4	15425.2	15056.6	14391.9	12038.7	7883.5
67.5°	11381.9	11462.2	12208.8	14253.3	16445.9	16786.1	16560.9	15206.3	13749.3	10342.3	5977.6
70°	11632.3	11764.6	12994.8	15381.1	17416.2	17592.6	16830.2	14508.5	11493.7	6914.8	3008.5
72.5°	10658.9	10873.1	12542.7	14970.0	16797.2	16644.4	15058.2	12167.9	7307.0	2625.7	918.3
75°	7516.5	7611.0	10424.2	12418.3	13509.9	13076.7	11454.3	7844.1	3005.3	737.2	315.0
77.5°	3881.1	3835.4	6199.7	8239.5	9635.0	9186.1	7500.8	4060.7	1138.8	307.1	195.3
80°	2006.7	2039.8	2682.4	4317.4	5881.5	5412.1	3999.2	1882.3	606.4	170.1	149.6
82.5°	1124.6	1055.3	1542.0	1885.4	2750.2	2156.3	1534.2	1332.6	264.6	102.4	141.8
85°	204.8	214.2	845.8	1019.1	954.5	606.4	494.6	889.9	77.2	56.7	99.2
87.5°	3.2	3.2	163.8	293.0	185.9	85.1	155.9	127.6	15.8	22.1	17.3
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°	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4	3657.4
2.5°	3640.1	3580.3	3468.4	3358.2	3218.0	3103.0	3025.8	2945.5	2863.6	2869.9	2888.8
5°	3577.1	3473.2	3252.6	3019.5	2795.8	2594.2	2395.8	2217.8	2145.3	2079.2	2082.3
7.5°	3514.1	3367.6	3044.7	2679.3	2340.6	1997.3	1748.4	1543.6	1434.9	1353.0	1329.4
10°	3485.8	3292.0	2854.1	2351.7	1871.3	1496.4	1176.6	1009.7	880.5	839.5	850.6
12.5°	3498.4	3254.2	2682.4	2055.5	1483.8	1042.7	819.1	734.0	705.7	700.9	697.8
15°	3522.0	3227.4	2513.9	1727.9	1090.0	775.0	688.3	672.6	669.4	666.3	667.9
17.5°	3553.5	3203.8	2334.3	1420.8	836.4	677.3	652.1	644.2	642.7	642.7	642.7
20°	3585.0	3177.0	2134.3	1146.7	697.8	639.5	623.8	619.0	617.4	617.4	615.9
22.5°	3621.2	3153.4	1931.1	901.0	642.7	612.7	598.5	595.4	593.8	592.2	592.2
25°	3673.2	3123.5	1715.3	737.2	608.0	587.5	573.3	570.2	568.6	562.3	563.9
27.5°	3742.5	3101.4	1493.2	636.4	576.5	556.0	546.6	541.8	538.7	534.0	535.5
30°	3837.0	3082.5	1257.0	581.2	540.3	522.9	513.5	510.3	507.2	502.5	502.5
32.5°	4000.8	3090.4	1008.1	537.1	507.2	486.7	477.3	474.1	471.0	466.2	466.2
35°	4246.5	3136.1	806.5	499.3	467.8	447.3	437.9	437.9	433.2	426.9	425.3
37.5°	4648.2	3252.6	647.4	463.1	430.0	411.1	400.1	396.9	392.2	382.8	381.2
40°	5122.3	3433.8	545.0	426.9	395.4	376.5	367.0	357.6	345.0	335.5	333.9
42.5°	5717.7	3619.6	472.5	390.6	362.3	345.0	333.9	318.2	299.3	286.7	285.1
45°	6338.3	3789.8	423.7	357.6	330.8	316.6	304.0	278.8	255.2	239.4	237.8
47.5°	6801.4	3821.3	384.3	326.1	304.0	289.8	272.5	241.0	209.5	195.3	190.6
50°	7020.3	3668.5	343.4	294.5	277.2	261.5	239.4	203.2	168.5	151.2	148.1
52.5°	7097.5	3403.8	310.3	266.2	250.4	231.5	204.8	163.8	132.3	115.0	113.4
55°	7066.0	3069.9	280.4	239.4	218.9	196.9	170.1	130.7	97.7	83.5	80.3
57.5°	6900.6	2644.6	250.4	212.6	187.4	165.4	135.5	97.7	66.2	53.6	52.0
60°	6454.9	2065.0	220.5	182.7	159.1	135.5	107.1	69.3	41.0	29.9	29.9
62.5°	5702.0	1532.6	192.2	152.8	133.9	108.7	75.6	44.1	22.1	15.8	14.2
65°	4764.8	1130.9	160.7	129.2	111.8	85.1	53.6	26.8	11.0	4.7	3.2
67.5°	3325.1	697.8	133.9	105.5	91.4	61.4	33.1	11.0	4.7	0.0	0.0
70°	1510.5	332.4	102.4	80.3	69.3	44.1	17.3	6.3	3.2	0.0	0.0
72.5°	469.4	174.8	72.5	58.3	47.3	28.4	9.5	4.7	3.2	0.0	0.0
75°	217.4	111.8	45.7	31.5	26.8	14.2	6.3	3.2	1.6	0.0	0.0
77.5°	162.2	86.6	26.8	17.3	14.2	9.5	4.7	3.2	1.6	0.0	0.0
80°	141.8	44.1	15.8	11.0	7.9	6.3	3.2	1.6	0.0	0.0	0.0
82.5°	127.6	22.1	9.5	6.3	4.7	3.2	1.6	1.6	0.0	0.0	0.0
85°	69.3	12.6	6.3	4.7	3.2	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	12.6	6.3	4.7	3.2	3.2	1.6	1.6	1.6	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)