

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: P646947

Luminaire Tested: **GALN-SA5C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646947
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-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 22676.5 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

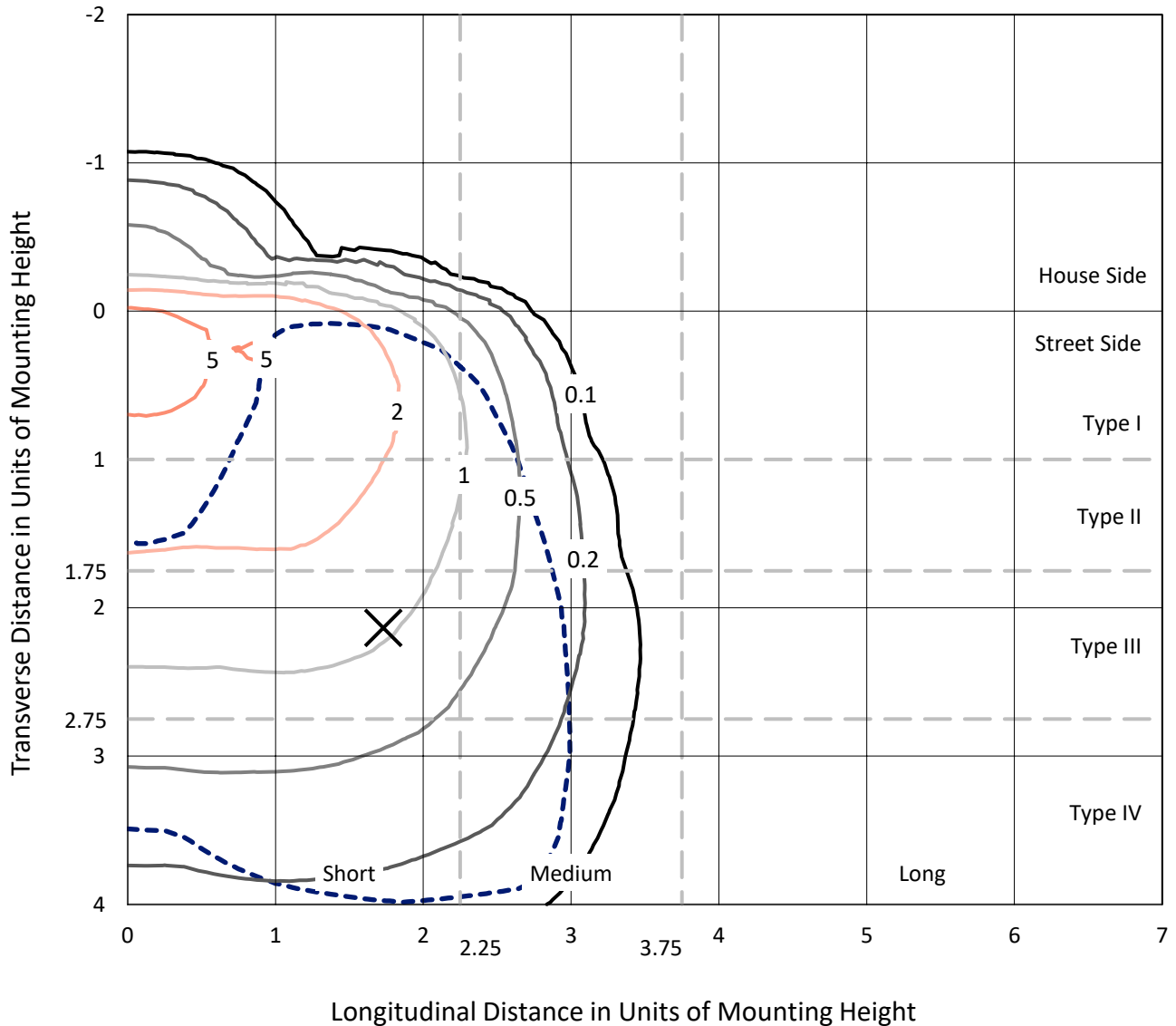
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

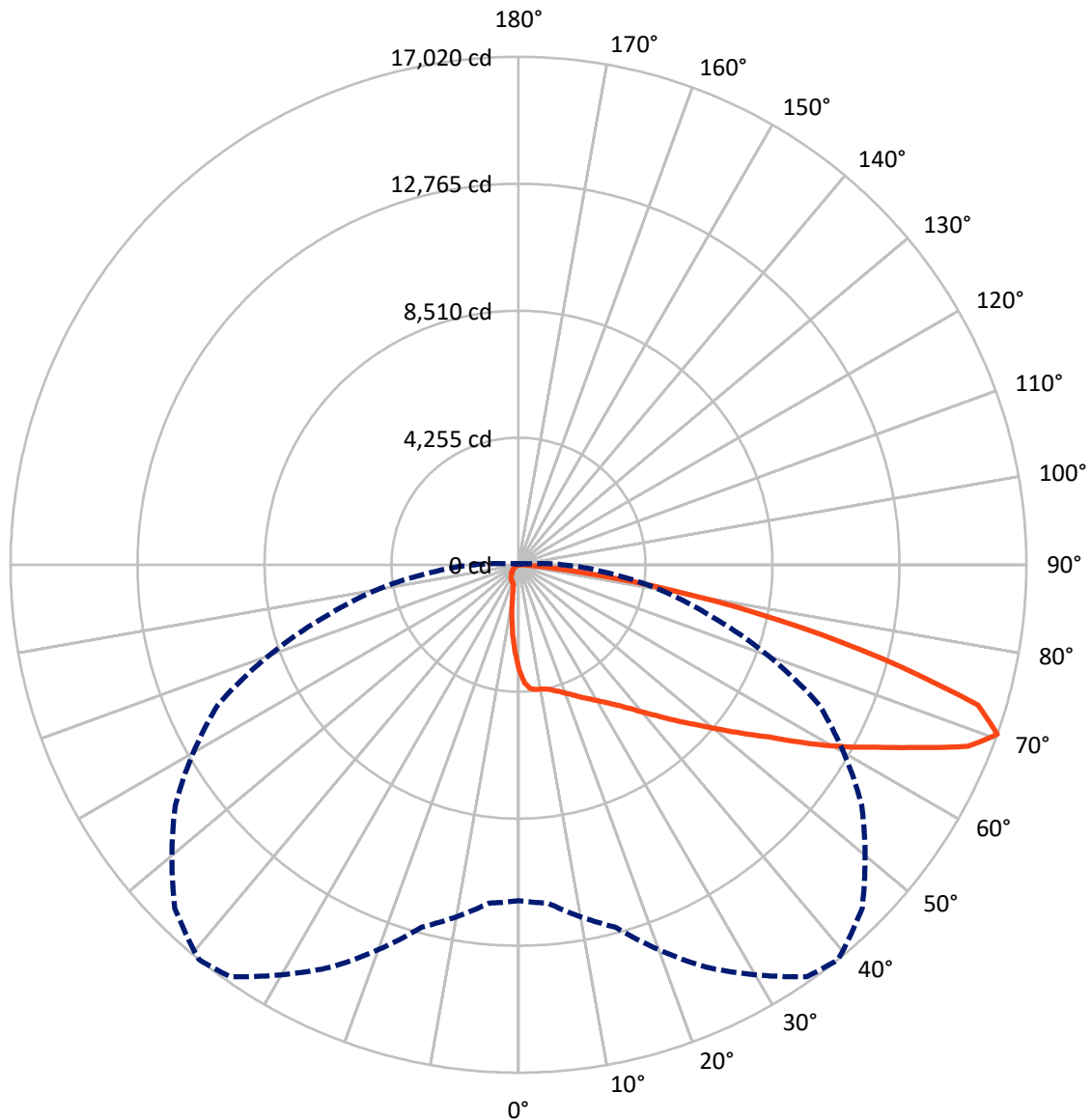
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	1478.6	0.0	1478.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	21197.8	0.0	21197.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	22676.5	0.0	22676.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	1.3
10°-20°	784.3	3.5
20°-30°	1313.9	5.8
30°-40°	2037.7	9.0
40°-50°	3229.1	14.2
50°-60°	4733.3	20.9
60°-70°	6067.0	26.8
70°-80°	3812.3	16.8
80°-90°	397.2	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°	22676.5	100.0
0°-180°	22676.5	100.0

Coefficient of Utilization



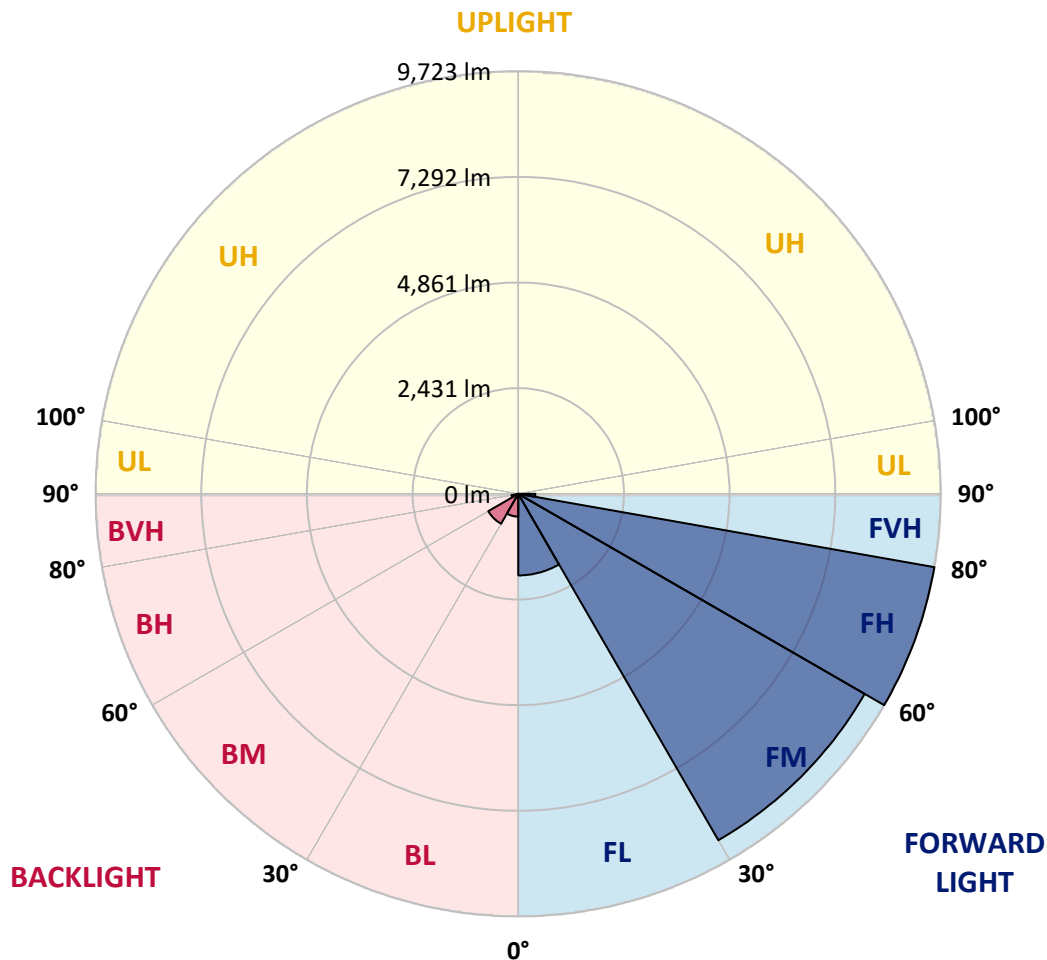
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.4	8.3			
FM (30°-60°)	9204.3	40.6			
FH (60°-80°)	9722.9	42.9			G4/12000
FVH (80°-90°)	394.2	1.7			G3/500
BL (0°-30°)	523.6	2.3	B2/1000		
BM (30°-60°)	795.7	3.5	B1/1000		
BH (60°-80°)	156.4	0.7	B1/500		G1/500
BVH (80°-90°)	2.9	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°	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3
2.5°	4088.4	4074.7	4056.4	4035.0	3974.1	3963.5	3926.9	3849.1	3756.2	3680.0	3574.9
5°	4281.9	4289.6	4275.8	4237.8	4193.5	4167.7	4121.9	4001.5	3881.2	3727.2	3555.1
7.5°	4326.2	4341.3	4324.6	4288.0	4245.3	4217.9	4181.4	4077.7	3937.6	3762.3	3526.1
10°	4321.5	4339.9	4329.1	4295.6	4260.6	4234.7	4195.1	4112.8	4000.0	3815.6	3535.2
12.5°	4313.9	4338.3	4336.8	4320.0	4291.1	4271.3	4246.9	4173.7	4068.6	3893.4	3585.5
15°	4292.6	4323.1	4350.5	4364.2	4365.8	4365.8	4335.2	4257.6	4156.9	3995.4	3651.1
17.5°	4301.7	4336.8	4405.4	4445.0	4472.4	4469.4	4437.3	4353.6	4242.3	4100.6	3719.6
20°	4358.1	4405.4	4501.4	4580.6	4608.0	4598.9	4556.2	4458.7	4332.2	4190.5	3786.7
22.5°	4496.8	4539.4	4659.9	4752.8	4772.6	4748.2	4687.3	4554.7	4440.4	4288.0	3867.5
25°	4704.0	4754.3	4865.6	4935.6	4935.6	4921.9	4836.6	4681.2	4562.3	4423.6	3972.6
27.5°	4955.5	4998.1	5107.8	5170.3	5133.7	5094.1	5008.8	4821.3	4707.1	4594.3	4099.1
30°	5209.9	5237.3	5353.1	5380.6	5342.5	5292.2	5200.8	5013.4	4912.8	4825.9	4281.9
32.5°	5450.7	5510.1	5606.1	5600.0	5548.3	5523.8	5440.0	5240.4	5184.0	5174.9	4538.0
35°	5691.5	5737.2	5822.5	5843.8	5798.1	5793.6	5732.6	5584.8	5586.3	5645.7	4937.2
37.5°	5898.7	5939.8	6040.5	6087.7	6096.8	6119.7	6095.3	5997.8	6136.4	6299.5	5466.0
40°	6072.4	6130.3	6258.3	6340.6	6435.1	6518.9	6523.5	6544.8	6823.7	7104.0	6156.3
42.5°	6208.0	6288.8	6474.7	6627.1	6843.5	6950.1	7035.5	7152.8	7622.1	8041.2	6970.0
45°	6384.8	6477.8	6709.4	6948.6	7286.9	7462.1	7581.0	7894.9	8560.8	9132.2	7805.0
47.5°	6677.3	6726.1	6962.4	7311.3	7756.2	8006.2	8237.8	8713.2	9568.0	10080.0	8499.9
50°	7053.7	7085.8	7264.0	7748.6	8324.6	8653.8	9075.8	9635.1	10613.4	10866.3	8893.0
52.5°	7469.7	7480.4	7614.5	8230.1	8961.6	9376.0	9848.4	10538.7	11465.2	11427.1	9153.6
55°	7952.8	7937.6	8051.8	8752.8	9715.9	10189.8	10739.9	11463.7	12204.2	11824.9	9302.9
57.5°	8506.0	8464.8	8576.0	9446.1	10682.0	11248.8	11808.0	12262.2	12777.2	12158.6	9374.5
60°	9085.0	9002.7	9135.3	10224.8	11820.2	12358.2	12823.0	12944.9	13380.7	12423.7	9251.1
62.5°	9546.7	9548.2	9795.1	11053.8	12990.5	13461.4	13708.3	13818.0	13900.3	12365.8	8602.0
65°	10267.5	10291.8	10686.5	12204.2	14345.2	14753.6	14922.7	14566.1	13923.1	11646.6	7626.7
67.5°	11011.1	11088.8	11811.1	13789.0	15910.2	16239.3	16021.4	14710.9	13301.4	10005.4	5782.9
70°	11253.4	11381.4	12571.5	14880.1	16848.8	17019.5	16282.0	14035.9	11119.3	6689.6	2910.5
72.5°	10311.6	10518.9	12134.2	14482.4	16250.0	16102.2	14567.7	11771.5	7069.0	2540.2	888.4
75°	7271.6	7363.1	10084.6	12013.8	13069.8	12650.8	11081.2	7588.6	2907.4	713.2	304.7
77.5°	3754.7	3710.5	5997.8	7971.1	9321.2	8886.9	7256.5	3928.4	1101.8	297.1	188.9
80°	1941.4	1973.3	2595.1	4176.8	5689.9	5235.8	3869.0	1820.9	586.7	164.6	144.8
82.5°	1088.0	1021.0	1491.8	1824.0	2660.6	2086.1	1484.2	1289.1	256.0	99.0	137.2
85°	198.1	207.3	818.3	985.9	923.5	586.7	478.5	861.0	74.7	54.9	96.0
87.5°	3.1	3.1	158.5	283.4	179.8	82.3	150.9	123.4	15.3	21.3	16.8
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°	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3	3538.3
2.5°	3521.5	3463.6	3355.5	3248.7	3113.1	3001.9	2927.2	2849.6	2770.3	2776.4	2794.7
5°	3460.6	3360.0	3146.7	2921.1	2704.8	2509.7	2317.8	2145.5	2075.4	2011.4	2014.5
7.5°	3399.6	3257.9	2945.6	2592.0	2264.4	1932.2	1691.4	1493.3	1388.2	1308.9	1286.1
10°	3372.2	3184.8	2761.2	2275.1	1810.3	1447.6	1138.3	976.8	851.8	812.2	822.9
12.5°	3384.4	3148.2	2595.1	1988.6	1435.5	1008.7	792.4	710.1	682.7	678.1	675.0
15°	3407.2	3122.3	2432.0	1671.6	1054.5	749.7	665.9	650.7	647.6	644.6	646.1
17.5°	3437.8	3099.4	2258.3	1374.5	809.2	655.2	630.9	623.3	621.7	621.7	621.7
20°	3468.2	3073.5	2064.8	1109.4	675.0	618.6	603.5	598.8	597.4	597.4	595.8
22.5°	3503.2	3050.6	1868.2	871.6	621.7	592.7	579.0	576.0	574.5	572.9	572.9
25°	3553.6	3021.8	1659.4	713.2	588.2	568.4	554.7	551.6	550.1	544.0	545.5
27.5°	3620.6	3000.4	1444.6	615.6	557.7	537.9	528.8	524.2	521.2	516.5	518.1
30°	3712.0	2982.1	1216.0	562.3	522.7	505.9	496.7	493.7	490.7	486.1	486.1
32.5°	3870.5	2989.7	975.2	519.6	490.7	470.9	461.7	458.7	455.6	451.1	451.1
35°	4108.2	3033.9	780.2	483.0	452.6	432.8	423.6	423.6	419.1	413.0	411.5
37.5°	4496.8	3146.7	626.3	448.0	416.0	397.7	387.0	384.0	379.4	370.3	368.8
40°	4955.5	3322.0	527.3	413.0	382.5	364.2	355.0	345.9	333.7	324.6	323.1
42.5°	5531.4	3501.7	457.1	377.9	350.5	333.7	323.1	307.8	289.6	277.3	275.8
45°	6131.8	3666.3	409.9	345.9	320.0	306.3	294.1	269.7	246.9	231.6	230.1
47.5°	6579.9	3696.8	371.8	315.4	294.1	280.4	263.6	233.2	202.6	188.9	184.4
50°	6791.7	3548.9	332.2	284.9	268.2	253.0	231.6	196.6	163.0	146.3	143.2
52.5°	6866.4	3293.0	300.2	257.5	242.3	224.0	198.1	158.5	128.0	111.3	109.7
55°	6835.8	2969.9	271.2	231.6	211.8	190.5	164.6	126.5	94.5	80.7	77.8
57.5°	6675.9	2558.5	242.3	205.7	181.3	160.0	131.1	94.5	64.0	51.8	50.3
60°	6244.6	1997.7	213.4	176.8	153.9	131.1	103.6	67.0	39.6	29.0	29.0
62.5°	5516.2	1482.7	185.9	147.8	129.5	105.2	73.1	42.7	21.3	15.3	13.7
65°	4609.5	1094.1	155.4	125.0	108.2	82.3	51.8	25.9	10.6	4.5	3.1
67.5°	3216.8	675.0	129.5	102.1	88.4	59.4	32.0	10.6	4.5	0.0	0.0
70°	1461.3	321.5	99.0	77.8	67.0	42.7	16.8	6.1	3.1	0.0	0.0
72.5°	454.1	169.1	70.1	56.4	45.7	27.4	9.2	4.5	3.1	0.0	0.0
75°	210.3	108.2	44.2	30.5	25.9	13.7	6.1	3.1	1.5	0.0	0.0
77.5°	157.0	83.8	25.9	16.8	13.7	9.2	4.5	3.1	1.5	0.0	0.0
80°	137.2	42.7	15.3	10.6	7.6	6.1	3.1	1.5	0.0	0.0	0.0
82.5°	123.4	21.3	9.2	6.1	4.5	3.1	1.5	1.5	0.0	0.0	0.0
85°	67.0	12.2	6.1	4.5	3.1	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	12.2	6.1	4.5	3.1	3.1	1.5	1.5	1.5	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)