

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: P647691

Luminaire Tested: **GALN-SA9D-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39723.9 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

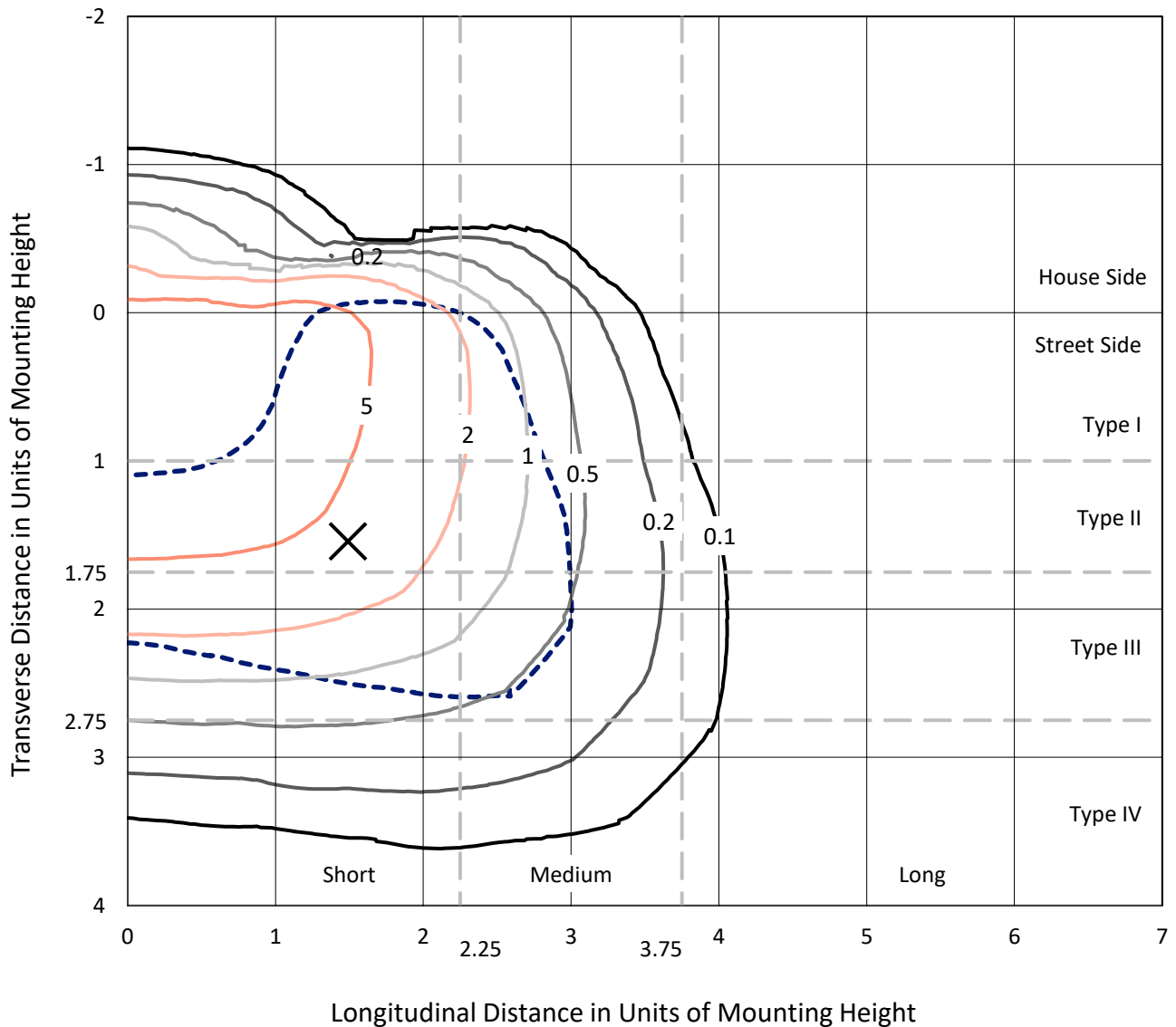
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647691
 CATALOG NUMBER: GALN-SA9D-835-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

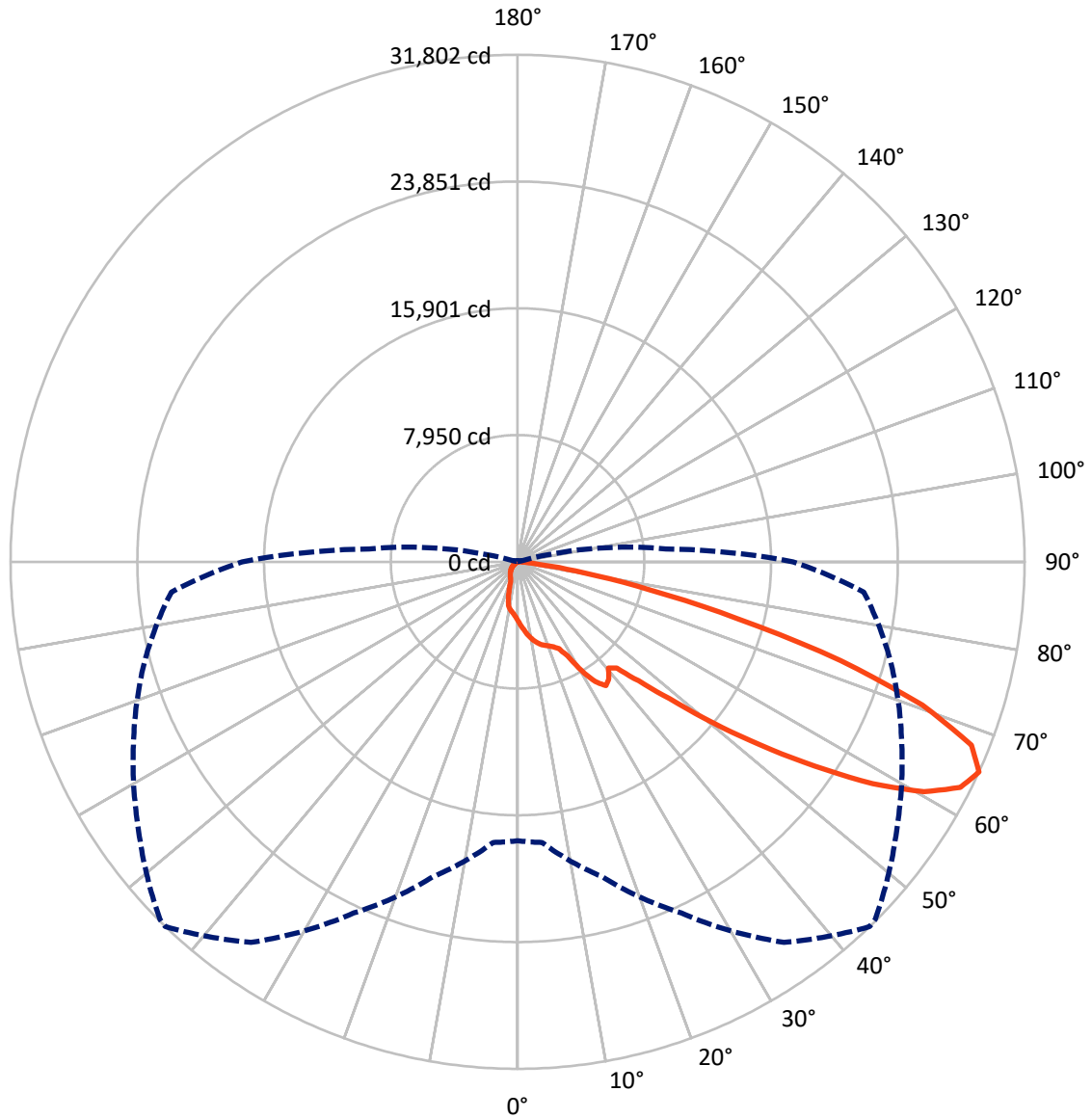
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647691
CATALOG NUMBER: GALN-SA9D-835-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3660.0	0.0	3660.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	36064.0	0.0	36064.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	39723.9	0.0	39723.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.7	0.9
10°-20°	1106.7	2.8
20°-30°	1876.6	4.7
30°-40°	3120.1	7.9
40°-50°	5447.8	13.7
50°-60°	10643.1	26.8
60°-70°	12348.4	31.1
70°-80°	4496.7	11.3
80°-90°	316.8	0.8
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°	39723.9	100.0
0°-180°	39723.9	100.0

Coefficient of Utilization



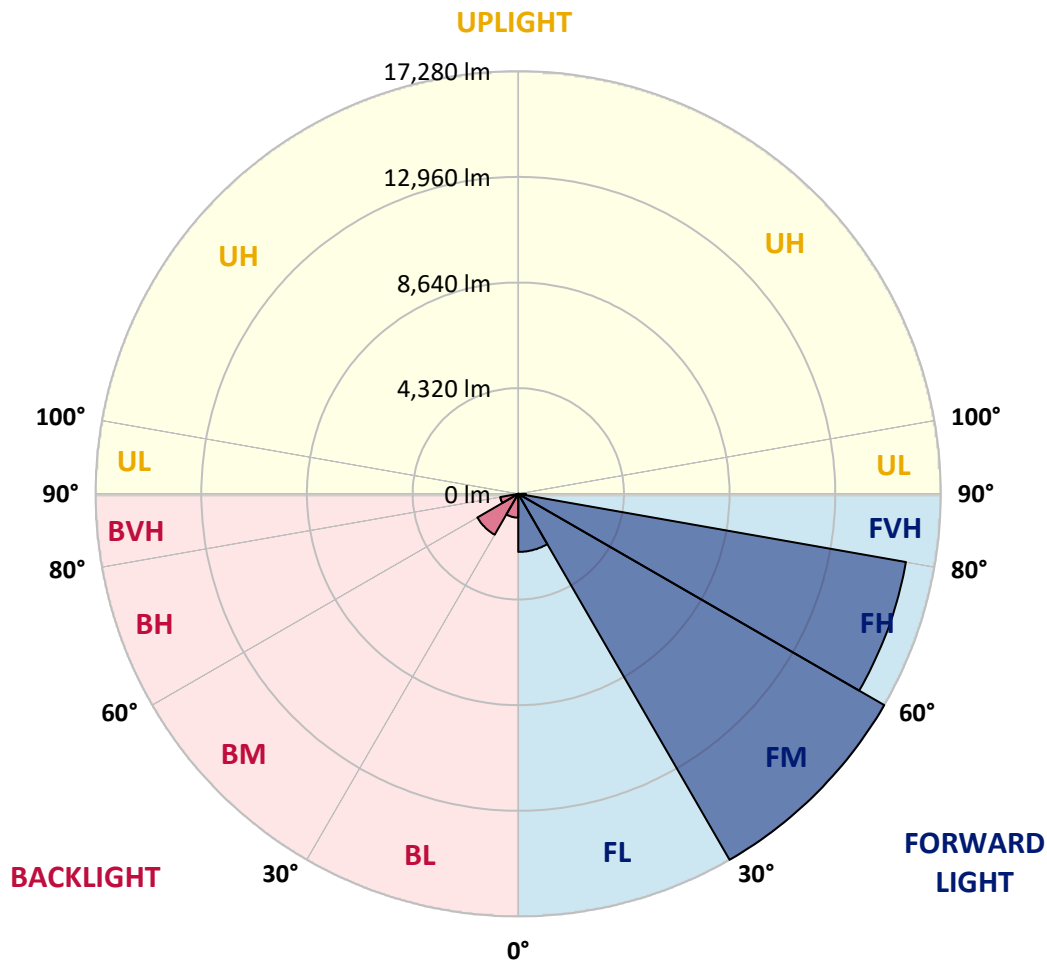
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2375.8	6.0			
FM (30°-60°)	17280.0	43.5			
FH (60°-80°)	16095.6	40.5			G5
FVH (80°-90°)	312.5	0.8			G3/500
BL (0°-30°)	975.1	2.5	B2/1000		
BM (30°-60°)	1931.0	4.9	B2/2500		
BH (60°-80°)	749.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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 III Short





REPORT NUMBER: P647691

CATALOG NUMBER: GALN-SA9D-835-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	4161.6	4143.3	4134.2	4085.6	4049.2	4003.7	4003.7	3946.0	3879.2	3806.4	3739.6
5°	4626.0	4595.6	4556.1	4513.6	4428.6	4307.2	4307.2	4185.8	4046.2	3921.7	3785.2
7.5°	5072.1	5044.9	4978.1	4896.1	4756.5	4629.0	4619.9	4443.8	4276.9	4088.7	3894.4
10°	5463.7	5442.5	5384.8	5226.9	5081.3	4914.3	4911.3	4714.0	4519.7	4289.0	4049.2
12.5°	5736.9	5739.9	5664.1	5512.3	5324.1	5166.2	5154.1	4959.8	4756.5	4507.6	4213.2
15°	5931.1	5931.1	5852.2	5682.2	5512.3	5372.6	5360.5	5190.5	4981.1	4710.9	4392.2
17.5°	5985.8	6004.0	5919.0	5767.3	5630.6	5509.3	5506.2	5363.6	5196.6	4935.6	4574.4
20°	5964.6	5982.7	5916.0	5797.6	5703.5	5633.7	5624.6	5566.9	5412.1	5166.2	4768.6
22.5°	5919.0	5937.3	5888.7	5818.9	5773.3	5794.6	5779.4	5827.9	5746.0	5448.5	4999.3
25°	5928.1	5946.3	5909.9	5870.5	5909.9	6040.5	6079.9	6289.4	6216.5	5806.7	5248.2
27.5°	6213.5	6249.9	6198.3	6216.5	6356.2	6659.6	6735.5	7096.7	6775.0	6262.0	5636.7
30°	6847.9	6823.6	6726.4	6814.4	7300.1	7943.6	7922.4	7864.7	7360.8	6787.1	6098.1
32.5°	7424.6	7403.3	7397.2	7776.7	8656.9	8969.6	8954.4	8395.9	7886.0	7388.2	6553.4
35°	7658.3	7576.4	7558.1	8477.9	9950.1	9537.3	9443.1	8614.5	8523.4	8043.8	7017.9
37.5°	8362.5	8304.8	8022.5	8593.2	9434.1	9297.4	9224.6	8990.9	9203.3	8623.6	7543.0
40°	9813.4	9652.6	9397.6	8839.1	8702.5	8760.1	8833.0	9473.4	10007.7	9415.8	8244.1
42.5°	11616.4	11580.0	11106.5	10065.4	9042.5	9121.4	9215.4	10481.2	11164.2	10608.7	9388.5
45°	13780.7	13832.3	13149.3	11920.0	10578.3	10645.1	10781.8	11968.5	12730.5	12463.3	11188.4
47.5°	15747.6	15708.2	15477.5	14199.6	12961.2	12812.4	13034.0	13877.8	14897.7	14940.2	13422.5
50°	17726.7	17936.2	17593.1	17092.3	16172.6	15860.0	15778.0	16190.8	17745.0	17541.5	16105.8
52.5°	20570.9	20680.1	20036.7	19909.2	20118.6	19104.8	19022.8	19123.0	20513.2	19815.1	18115.3
55°	22358.7	22295.0	22055.2	23050.8	23879.5	22613.7	22510.5	22106.8	22811.0	21420.8	20048.8
57.5°	22923.3	23014.4	23572.9	25372.9	27333.7	26259.2	26071.0	24923.7	24468.4	22917.2	21827.5
60°	22671.4	22838.3	24043.3	26720.6	29440.3	29279.4	29118.6	27191.1	25658.2	24167.8	23075.1
62.5°	20877.4	21111.2	23038.7	26480.8	30153.6	31158.4	30958.0	28605.6	26450.4	24774.9	23293.6
65°	17496.1	17669.0	20437.3	24304.4	29139.8	31801.9	31729.0	29048.8	26574.9	24219.4	21797.2
67.5°	12472.5	13061.3	15626.3	20482.9	26140.8	30703.1	30827.5	28517.6	25406.3	21818.5	18051.5
70°	7840.4	8241.1	10080.6	14664.0	20956.4	26936.1	27345.9	26086.2	22049.1	17007.3	12083.9
72.5°	3739.6	4037.1	5348.4	9282.2	14791.5	21193.1	21517.9	21414.7	17049.8	10715.0	6234.7
75°	1666.5	1778.7	2552.7	4738.2	9549.4	14245.1	15085.9	15225.6	10654.3	5242.1	2425.3
77.5°	849.9	852.9	1196.0	2294.7	4768.6	8499.2	8666.1	9154.8	5776.3	2309.9	843.8
80°	452.3	482.6	634.4	1083.7	2473.8	4185.8	4164.5	4577.4	2561.9	1132.2	282.3
82.5°	203.3	224.6	358.1	567.6	1208.1	1587.5	1712.0	1872.9	1098.8	722.4	124.4
85°	60.7	72.8	176.0	285.3	437.1	458.4	512.9	661.7	622.3	512.9	63.7
87.5°	9.1	9.1	72.8	78.9	63.7	82.0	85.0	94.1	200.4	188.2	33.4
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°	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1	3697.1
2.5°	3703.2	3681.9	3606.0	3542.3	3487.6	3454.3	3414.8	3390.5	3378.4	3369.3	3372.3
5°	3718.4	3666.8	3536.3	3433.1	3354.1	3269.1	3211.5	3178.0	3162.9	3138.6	3138.6
7.5°	3803.3	3721.4	3539.2	3381.5	3244.8	3129.5	3020.2	2980.7	2953.5	2947.4	2941.3
10°	3924.8	3821.6	3572.7	3354.1	3159.9	3002.0	2847.2	2710.6	2604.3	2540.6	2531.5
12.5°	4076.5	3927.8	3624.3	3335.9	3087.0	2807.8	2397.9	2121.8	1936.6	1878.9	1888.0
15°	4216.1	4055.3	3675.9	3320.7	2953.5	2328.2	1863.7	1548.1	1454.0	1444.9	1447.9
17.5°	4383.1	4191.9	3736.6	3299.5	2586.2	1778.7	1384.1	1299.2	1317.4	1347.7	1344.6
20°	4556.1	4337.6	3809.5	3172.0	2064.1	1338.6	1223.3	1232.4	1259.7	1287.0	1293.0
22.5°	4741.3	4504.5	3894.4	2865.4	1575.4	1165.6	1159.5	1171.7	1199.0	1229.3	1235.4
25°	4996.2	4714.0	3958.1	2464.7	1192.9	1077.6	1089.7	1110.9	1135.3	1168.6	1174.7
27.5°	5324.1	4996.2	3991.6	1942.6	1032.1	998.6	1001.7	1032.1	1062.4	1092.8	1092.8
30°	5749.0	5333.2	3924.8	1469.1	953.1	922.8	910.6	928.8	968.3	998.6	1001.7
32.5°	6128.5	5651.9	3748.7	1123.1	895.4	852.9	822.6	825.6	840.8	859.0	862.1
35°	6507.9	5961.5	3448.2	944.0	834.8	786.1	740.6	716.4	704.2	695.1	704.2
37.5°	6993.5	6347.0	3047.5	859.0	783.2	722.4	658.7	607.1	564.6	537.3	543.3
40°	7618.8	6881.2	2574.0	804.4	734.5	661.7	576.8	510.0	437.1	412.8	400.7
42.5°	8650.9	7691.7	2076.2	758.9	686.0	598.0	491.7	400.7	333.9	309.6	315.7
45°	10280.9	8714.6	1599.7	710.3	637.4	528.1	412.8	315.7	261.1	248.9	254.9
47.5°	12442.1	10038.1	1232.4	655.7	576.8	452.3	324.8	248.9	215.5	212.5	209.5
50°	14475.8	11270.4	1029.0	594.9	503.9	376.4	267.1	209.5	188.2	185.2	185.2
52.5°	16315.3	12153.7	837.7	525.2	424.9	309.6	224.6	185.2	166.9	157.9	157.9
55°	17951.4	12730.5	680.0	440.1	333.9	245.9	194.3	166.9	145.7	133.6	130.5
57.5°	19186.7	12800.2	510.0	352.1	248.9	191.2	166.9	145.7	121.4	106.3	100.1
60°	19714.9	12196.2	376.4	267.1	185.2	151.7	133.6	118.4	91.1	75.9	72.8
62.5°	19183.7	11021.5	279.2	203.3	142.7	112.3	94.1	88.0	63.7	45.5	42.5
65°	17280.5	9324.7	221.6	154.8	106.3	82.0	60.7	57.7	39.5	21.2	18.2
67.5°	13844.5	7303.2	176.0	115.3	75.9	54.7	39.5	36.4	21.2	6.1	6.1
70°	9003.0	4668.4	142.7	85.0	48.5	36.4	24.3	18.2	12.1	3.1	0.0
72.5°	4452.9	2182.5	115.3	66.8	33.4	18.2	9.1	6.1	9.1	0.0	0.0
75°	1727.1	777.0	85.0	45.5	18.2	9.1	6.1	0.0	3.1	0.0	0.0
77.5°	573.7	258.0	51.6	24.3	12.1	6.1	0.0	0.0	0.0	0.0	0.0
80°	212.5	100.1	27.3	15.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	85.0	39.5	18.2	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.5	24.3	12.1	9.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.4	18.2	12.1	9.1	6.1	3.1	0.0	0.0	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)