

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: P459091

Luminaire Tested: **GALN-SA5D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459091
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-SA5D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 26107 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

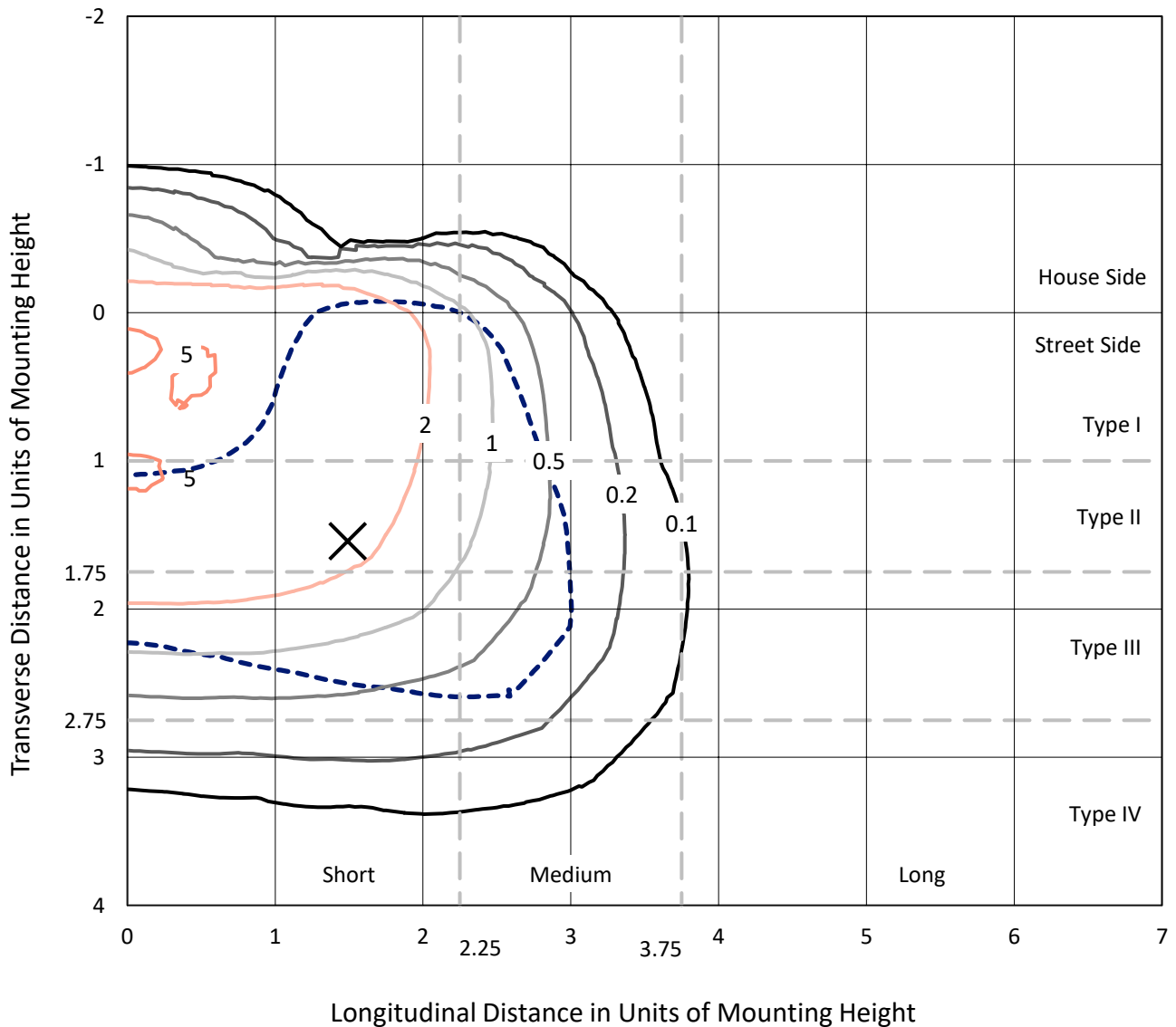
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

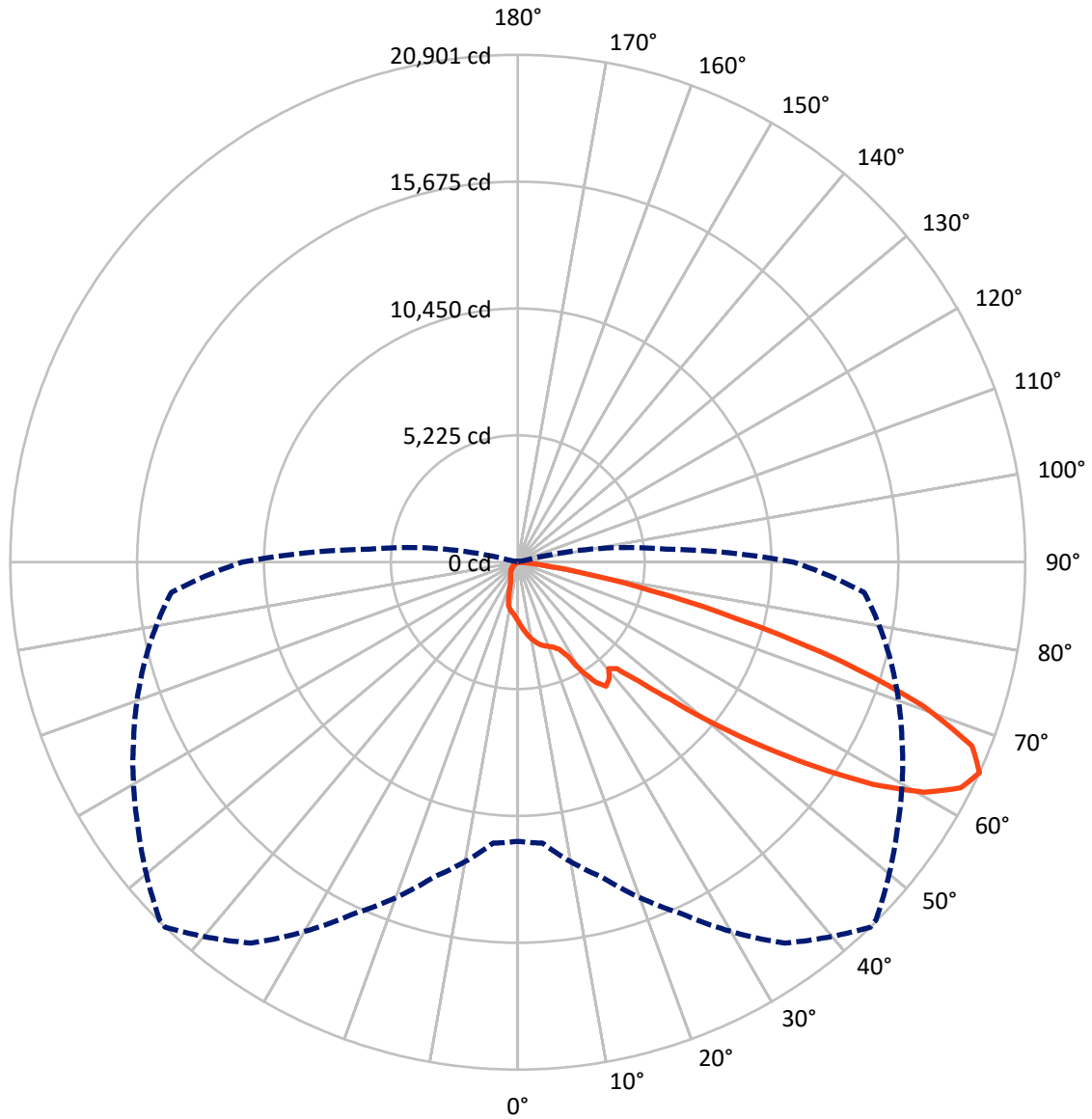
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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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	2405.4	0.0	2405.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	23701.6	0.0	23701.6
	% Fixture	90.8	0.0	90.8
Total	Lumens	26107.0	0.0	26107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	0.9
10°-20°	727.3	2.8
20°-30°	1233.3	4.7
30°-40°	2050.6	7.9
40°-50°	3580.4	13.7
50°-60°	6994.7	26.8
60°-70°	8115.5	31.1
70°-80°	2955.3	11.3
80°-90°	208.2	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°	26107.0	100.0
0°-180°	26107.0	100.0

Coefficient of Utilization

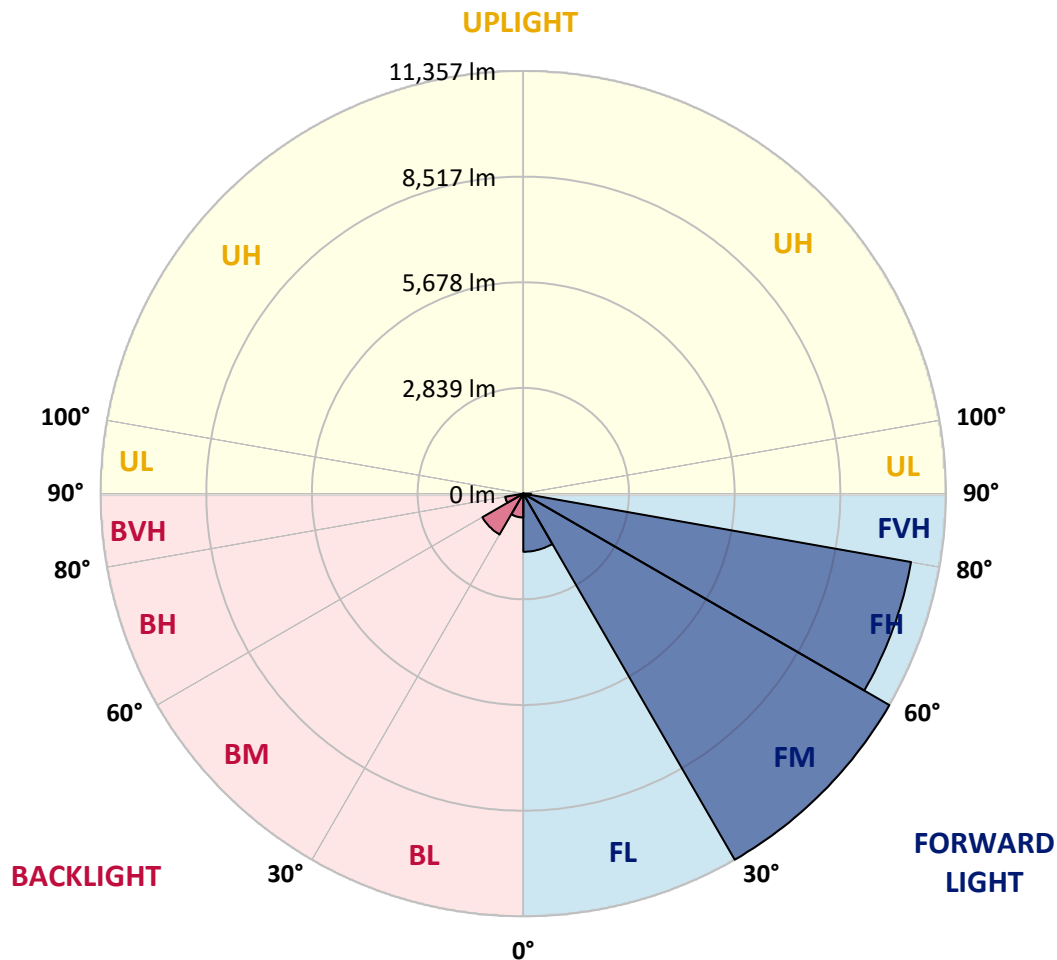


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1561.4	6.0			
FM	(30°-60°)	11356.6	43.5			
FH	(60°-80°)	10578.2	40.5			G4/12000
FVH	(80°-90°)	205.4	0.8			G2/225
BL	(0°-30°)	640.9	2.5	B2/1000		
BM	(30°-60°)	1269.1	4.9	B2/2500		
BH	(60°-80°)	492.6	1.9	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8
2.5°	2735.0	2723.0	2717.0	2685.1	2661.2	2631.3	2631.3	2593.4	2549.5	2501.6	2457.7
5°	3040.2	3020.3	2994.3	2966.4	2910.6	2830.8	2830.8	2751.0	2659.2	2577.4	2487.6
7.5°	3333.5	3315.5	3271.6	3217.8	3126.0	3042.2	3036.2	2920.5	2810.8	2687.1	2559.5
10°	3590.8	3576.8	3538.9	3435.2	3339.5	3229.7	3227.7	3098.1	2970.4	2818.8	2661.2
12.5°	3770.4	3772.3	3722.5	3622.7	3499.0	3395.3	3387.3	3259.7	3126.0	2962.4	2768.9
15°	3898.0	3898.0	3846.2	3734.4	3622.7	3531.0	3523.0	3411.3	3273.6	3096.1	2886.6
17.5°	3933.9	3945.9	3890.0	3790.3	3700.5	3620.7	3618.7	3525.0	3415.3	3243.7	3006.3
20°	3920.0	3931.9	3888.1	3810.3	3748.4	3702.5	3696.5	3658.6	3556.9	3395.3	3134.0
22.5°	3890.0	3902.0	3870.1	3824.2	3794.3	3808.3	3798.3	3830.2	3776.3	3580.8	3285.6
25°	3896.0	3908.0	3884.1	3858.1	3884.1	3969.8	3995.8	4133.4	4085.5	3816.2	3449.2
27.5°	4083.6	4107.5	4073.6	4085.5	4177.3	4376.8	4426.7	4664.1	4452.6	4115.5	3704.5
30°	4500.5	4484.5	4420.7	4478.5	4797.7	5220.6	5206.7	5168.8	4837.6	4460.6	4007.7
32.5°	4879.5	4865.6	4861.6	5110.9	5689.4	5894.9	5884.9	5517.9	5182.7	4855.6	4307.0
35°	5033.1	4979.3	4967.3	5571.7	6539.3	6268.0	6206.1	5661.5	5601.7	5286.5	4612.2
37.5°	5495.9	5458.0	5272.5	5647.6	6200.1	6110.4	6062.5	5908.9	6048.5	5667.5	4957.3
40°	6449.5	6343.8	6176.2	5809.1	5719.4	5757.3	5805.1	6226.1	6577.2	6188.2	5418.1
42.5°	7634.5	7610.5	7299.3	6615.1	5942.8	5994.7	6056.5	6888.4	7337.2	6972.2	6170.2
45°	9056.8	9090.7	8641.9	7834.0	6952.2	6996.1	7085.9	7865.9	8366.6	8191.0	7353.2
47.5°	10349.5	10323.6	10172.0	9332.1	8518.2	8420.5	8566.1	9120.7	9790.9	9818.9	8821.4
50°	11650.2	11787.8	11562.4	11233.3	10628.8	10423.3	10369.5	10640.8	11662.2	11528.5	10584.9
52.5°	13519.4	13591.2	13168.3	13084.5	13222.2	12555.9	12502.0	12567.8	13481.5	13022.7	11905.5
55°	14694.4	14652.5	14494.9	15149.2	15693.8	14862.0	14794.1	14528.8	14991.6	14078.0	13176.3
57.5°	15065.5	15125.3	15492.4	16675.3	17964.0	17257.8	17134.2	16380.1	16080.9	15061.5	14345.3
60°	14899.9	15009.6	15801.6	17561.1	19348.5	19242.8	19137.0	17870.3	16862.9	15883.4	15165.2
62.5°	13720.9	13874.5	15141.3	17403.5	19817.3	20477.6	20345.9	18799.9	17383.5	16282.3	15308.8
65°	11498.6	11612.3	13431.6	15973.1	19151.0	20900.5	20852.6	19091.2	17465.3	15917.3	14325.3
67.5°	8197.0	8584.0	10269.7	13461.6	17180.0	20178.4	20260.2	18742.0	16697.3	14339.3	11863.6
70°	5152.8	5416.1	6625.0	9637.3	13772.8	17702.7	17972.0	17144.1	14490.9	11177.4	7941.7
72.5°	2457.7	2653.2	3515.0	6100.4	9721.1	13928.4	14141.8	14074.0	11205.3	7042.0	4097.5
75°	1095.2	1169.0	1677.7	3114.0	6275.9	9362.0	9914.6	10006.4	7002.1	3445.2	1593.9
77.5°	558.6	560.6	786.0	1508.1	3134.0	5585.7	5695.4	6016.6	3796.3	1518.1	554.6
80°	297.2	317.2	416.9	712.2	1625.8	2751.0	2737.0	3008.3	1683.7	744.1	185.5
82.5°	133.7	147.6	235.4	373.0	794.0	1043.3	1125.1	1230.9	722.2	474.8	81.8
85°	39.9	47.9	115.7	187.5	287.3	301.2	337.1	434.9	409.0	337.1	41.9
87.5°	6.0	6.0	47.9	51.9	41.9	53.9	55.9	61.8	131.7	123.7	21.9
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°	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8	2429.8
2.5°	2433.8	2419.8	2369.9	2328.0	2292.1	2270.2	2244.3	2228.3	2220.3	2214.3	2216.3
5°	2443.7	2409.8	2324.1	2256.2	2204.4	2148.5	2110.6	2088.7	2078.7	2062.7	2062.7
7.5°	2499.6	2445.7	2326.0	2222.3	2132.5	2056.7	1984.9	1959.0	1941.0	1937.0	1933.1
10°	2579.4	2511.6	2348.0	2204.4	2076.7	1973.0	1871.2	1781.4	1711.6	1669.7	1663.7
12.5°	2679.1	2581.4	2381.9	2192.4	2028.8	1845.3	1576.0	1394.4	1272.7	1234.8	1240.8
15°	2770.9	2665.2	2415.8	2182.4	1941.0	1530.1	1224.9	1017.4	955.6	949.6	951.6
17.5°	2880.6	2755.0	2455.7	2168.5	1699.7	1169.0	909.7	853.8	865.8	885.7	883.7
20°	2994.3	2850.7	2503.6	2084.7	1356.5	879.7	803.9	809.9	827.9	845.8	849.8
22.5°	3116.0	2960.4	2559.5	1883.2	1035.4	766.0	762.1	770.0	788.0	807.9	811.9
25°	3283.6	3098.1	2601.3	1619.9	784.0	708.2	716.2	730.1	746.1	768.0	772.0
27.5°	3499.0	3283.6	2623.3	1276.7	678.3	656.3	658.3	678.3	698.2	718.2	718.2
30°	3778.3	3505.0	2579.4	965.5	626.4	606.4	598.5	610.4	636.4	656.3	658.3
32.5°	4027.7	3714.5	2463.7	738.1	588.5	560.6	540.6	542.6	552.6	564.6	566.6
35°	4277.1	3918.0	2266.2	620.4	548.6	516.7	486.8	470.8	462.8	456.8	462.8
37.5°	4596.2	4171.3	2002.9	564.6	514.7	474.8	432.9	399.0	371.1	353.1	357.1
40°	5007.2	4522.4	1691.7	528.6	482.8	434.9	379.0	335.1	287.3	271.3	263.3
42.5°	5685.5	5055.1	1364.5	498.7	450.8	393.0	323.2	263.3	219.4	203.5	207.5
45°	6756.7	5727.3	1051.3	466.8	418.9	347.1	271.3	207.5	171.6	163.6	167.6
47.5°	8177.1	6597.1	809.9	430.9	379.0	297.2	213.5	163.6	141.6	139.6	137.6
50°	9513.7	7407.0	676.3	391.0	331.2	247.4	175.6	137.6	123.7	121.7	121.7
52.5°	10722.6	7987.6	550.6	345.1	279.3	203.5	147.6	121.7	109.7	103.7	103.7
55°	11797.8	8366.6	446.9	289.3	219.4	161.6	127.7	109.7	95.8	87.8	85.8
57.5°	12609.7	8412.5	335.1	231.4	163.6	125.7	109.7	95.8	79.8	69.8	65.8
60°	12956.8	8015.5	247.4	175.6	121.7	99.7	87.8	77.8	59.8	49.9	47.9
62.5°	12607.7	7243.5	183.5	133.7	93.8	73.8	61.8	57.9	41.9	29.9	27.9
65°	11356.9	6128.3	145.6	101.7	69.8	53.9	39.9	37.9	25.9	14.0	12.0
67.5°	9098.7	4799.7	115.7	75.8	49.9	35.9	25.9	23.9	14.0	4.0	4.0
70°	5916.9	3068.1	93.8	55.9	31.9	23.9	16.0	12.0	8.0	2.0	0.0
72.5°	2926.5	1434.3	75.8	43.9	21.9	12.0	6.0	4.0	6.0	0.0	0.0
75°	1135.1	510.7	55.9	29.9	12.0	6.0	4.0	0.0	2.0	0.0	0.0
77.5°	377.0	169.6	33.9	16.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	139.6	65.8	18.0	10.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.9	25.9	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	16.0	8.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.9	12.0	8.0	6.0	4.0	2.0	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)