

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: P648624

Luminaire Tested: **GALN-SA8B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25907.1 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

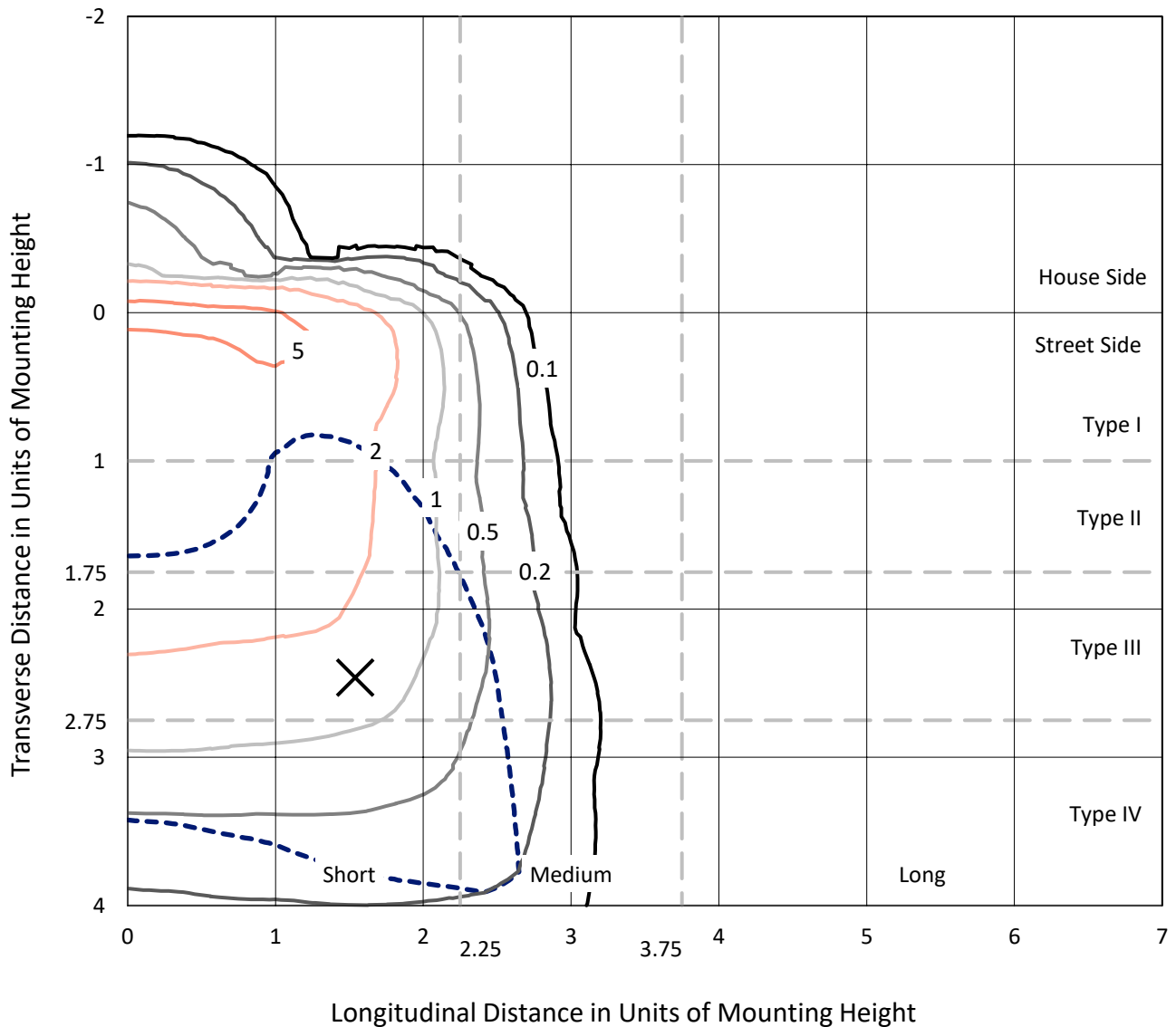
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

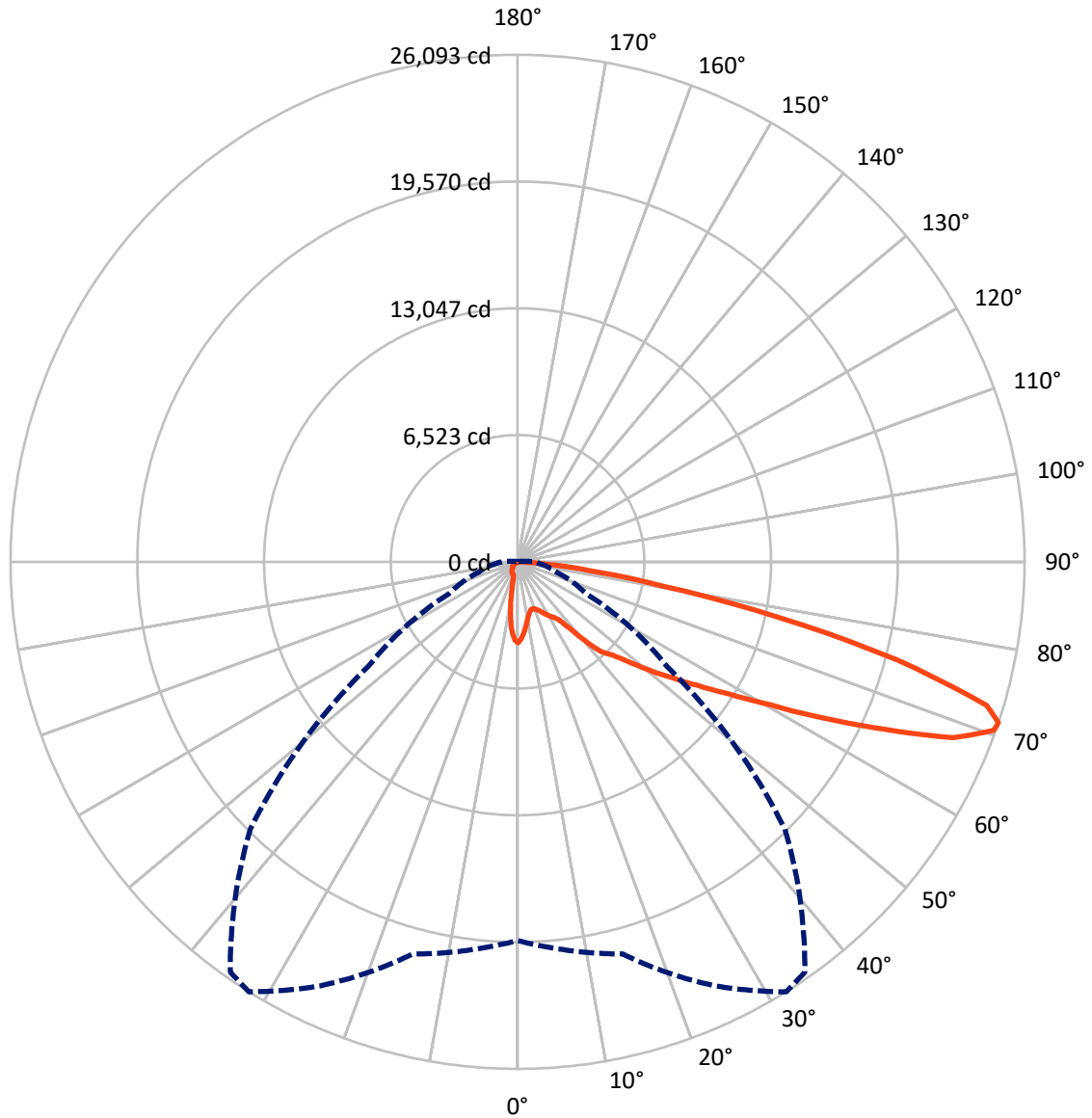
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.0	0.0	2170.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23737.1	0.0	23737.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	25907.1	0.0	25907.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.8	1.3
10°-20°	735.3	2.8
20°-30°	1143.8	4.4
30°-40°	1905.6	7.4
40°-50°	3544.7	13.7
50°-60°	5691.2	22.0
60°-70°	7654.9	29.5
70°-80°	4541.8	17.5
80°-90°	351.1	1.4
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°	25907.1	100.0
0°-180°	25907.1	100.0



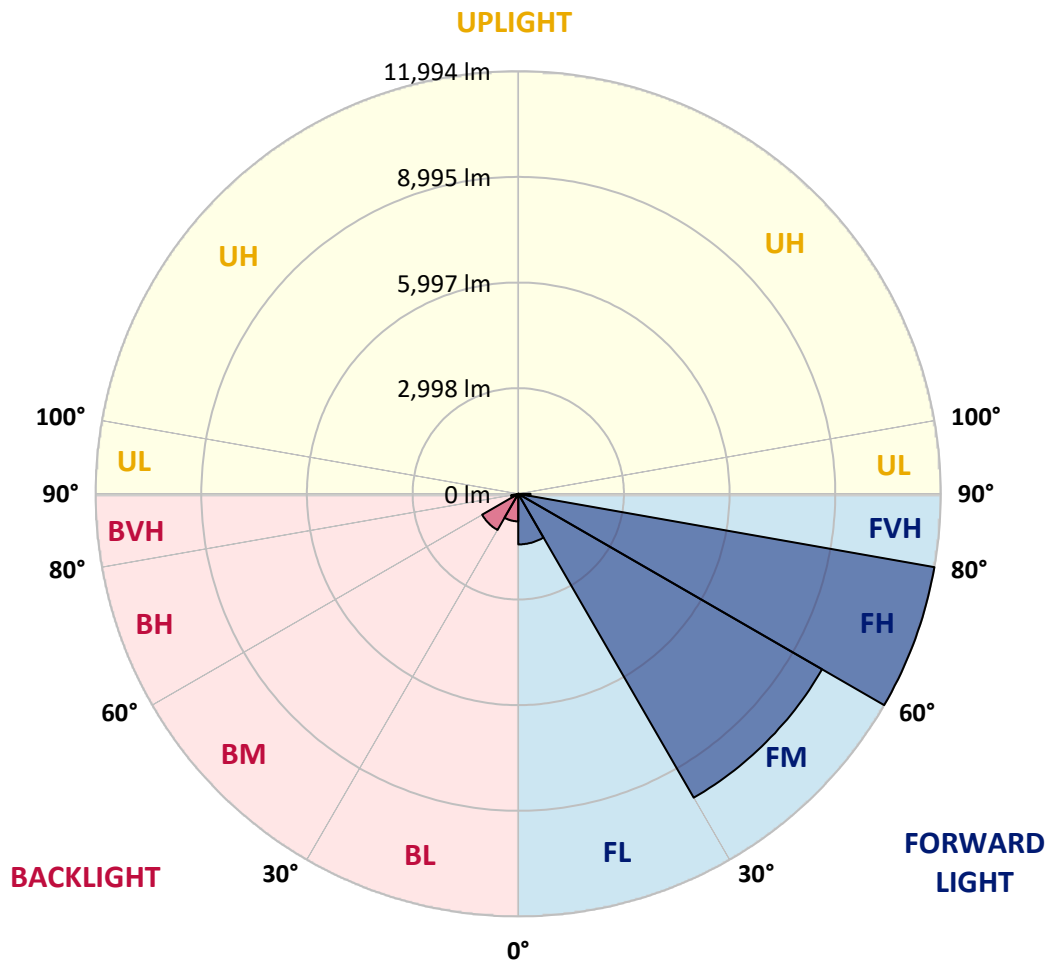
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.9	5.5			
FM (30°-60°)	9957.7	38.4			
FH (60°-80°)	11993.7	46.3			G4/12000
FVH (80°-90°)	349.7	1.3			G3/500
BL (0°-30°)	781.9	3.0	B2/1000		
BM (30°-60°)	1183.8	4.6	B2/2500		
BH (60°-80°)	203.0	0.8	B1/500		G1/500
BVH (80°-90°)	1.4	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°	32°	35°	45°	55°	65°	75°	85°
0°	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3
2.5°	3864.0	3903.8	3897.8	3911.7	3945.5	3959.5	3997.2	4039.0	4096.7	4136.4	4162.3
5°	3460.3	3490.1	3494.1	3563.7	3597.5	3635.3	3746.7	3867.9	4003.2	4110.6	4182.2
7.5°	3028.7	3044.7	3076.5	3167.9	3253.4	3291.3	3460.3	3671.1	3883.9	4084.8	4214.0
10°	2672.8	2690.7	2748.3	2845.8	2925.4	2975.1	3209.8	3474.2	3772.5	4070.8	4259.8
12.5°	2469.9	2479.8	2501.8	2589.2	2690.7	2744.3	2996.9	3299.2	3683.0	4076.8	4337.3
15°	2456.0	2452.0	2426.2	2462.0	2553.4	2609.1	2855.8	3179.9	3603.4	4096.7	4428.8
17.5°	2529.6	2519.6	2458.0	2458.0	2533.6	2579.3	2796.1	3116.3	3563.7	4142.4	4558.0
20°	2642.9	2627.0	2525.6	2517.7	2591.3	2638.9	2831.9	3120.3	3571.7	4227.9	4731.0
22.5°	2786.1	2768.2	2615.1	2619.1	2698.6	2746.4	2935.3	3191.8	3621.4	4333.4	4916.0
25°	2973.1	2953.2	2772.2	2764.2	2847.8	2889.5	3088.4	3319.1	3691.0	4464.6	5158.6
27.5°	3221.7	3179.9	2963.1	2951.2	3040.7	3094.3	3273.3	3490.1	3814.3	4645.5	5484.8
30°	3426.5	3380.8	3173.9	3142.1	3237.5	3279.4	3464.3	3720.8	4056.9	4961.7	5936.2
32.5°	3695.0	3627.3	3384.8	3301.2	3402.6	3456.3	3740.7	4150.4	4416.8	5295.8	6473.1
35°	4299.5	4257.7	3961.4	3669.1	3663.1	3730.8	4148.3	4583.9	4786.7	5816.9	7204.9
37.5°	5164.6	5134.8	4820.5	4428.8	4315.4	4283.6	4643.6	5061.2	5377.4	6532.8	8056.1
40°	6168.9	6099.3	5810.9	5478.8	5331.6	5238.2	5228.2	5771.1	6149.0	7505.3	8943.0
42.5°	6888.8	6761.5	6411.5	6387.6	6355.8	6258.4	5975.9	6809.2	7145.3	8551.3	9891.6
45°	7644.4	7451.6	6930.5	6841.1	6829.1	6823.1	7105.5	8038.2	8231.1	9684.8	10866.1
47.5°	8231.1	8078.0	7650.5	7610.7	7660.4	7795.6	8599.0	9342.8	9303.0	10695.1	11683.5
50°	9012.6	8897.3	8422.0	8497.6	8754.2	8974.9	10283.5	10764.7	10184.0	11490.5	12278.1
52.5°	9935.4	9722.6	9281.1	9486.0	9879.7	10247.7	12071.3	12009.6	10802.5	12089.1	12721.6
55°	10734.9	10583.7	10432.6	10645.4	11234.0	11693.4	13686.1	12942.3	11251.9	12570.4	12916.4
57.5°	12087.2	12051.4	11896.3	12113.0	12826.9	13304.2	15131.8	13666.2	11540.2	12821.0	12687.7
60°	14087.7	14030.1	13741.7	14018.1	14948.9	15698.6	16464.2	14316.5	11605.9	12723.5	12029.5
62.5°	16494.1	16297.2	16050.6	16458.3	17735.0	18065.1	17719.1	14702.2	11361.3	11948.0	10442.6
65°	18741.3	18538.4	18544.3	19403.4	20793.6	21018.3	19182.7	14644.6	10645.4	10005.0	7702.1
67.5°	20461.4	20427.7	20670.3	22346.7	24164.4	24009.3	20491.3	13781.5	8523.4	6485.0	4092.7
70°	20549.0	20614.6	21310.6	24140.5	25986.0	25739.4	20379.9	11202.2	5313.8	2983.0	1612.8
71°	19491.0	19932.4	20895.0	24084.8	26093.4	25773.2	19441.3	9382.5	3897.8	2080.1	1163.4
72.5°	16609.4	16842.1	18922.2	22666.9	25244.2	24560.1	17060.8	6576.6	2495.8	1272.8	668.2
75°	9147.9	9720.6	12671.8	17782.7	20191.0	19590.4	11118.7	3124.2	1244.9	696.0	276.4
77.5°	4355.2	4243.9	6182.8	10575.7	13690.1	13658.2	5602.1	1388.1	725.8	471.3	139.2
80°	1244.9	1400.0	2366.5	5027.3	7600.7	7684.2	2151.8	670.2	503.2	367.9	71.6
82.5°	375.8	383.8	869.1	2223.3	3780.5	3563.7	807.4	342.0	361.9	292.4	41.7
85°	65.6	81.5	256.5	783.5	1441.8	1093.8	202.9	163.1	238.7	192.9	23.9
87.5°	4.0	6.0	85.5	89.5	127.2	73.6	35.8	23.9	51.7	51.7	13.9
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°	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3	4166.3
2.5°	4180.2	4192.1	4184.2	4166.3	4136.4	4100.6	4052.9	4013.1	3979.4	3961.4	3983.3
5°	4206.0	4221.9	4182.2	4092.7	3957.4	3810.3	3643.2	3513.9	3412.5	3380.8	3368.8
7.5°	4245.8	4255.8	4148.3	3949.5	3663.1	3315.1	3010.9	2754.3	2555.5	2495.8	2408.3
10°	4297.5	4291.5	4088.7	3718.8	3215.7	2692.7	2221.4	1871.4	1606.9	1511.4	1503.4
12.5°	4377.0	4345.3	4013.1	3404.6	2682.7	1998.6	1415.9	1107.7	940.6	884.9	873.0
15°	4476.5	4400.9	3893.9	3036.7	2054.3	1290.6	873.0	779.6	757.7	753.7	749.7
17.5°	4593.9	4474.5	3736.7	2585.3	1443.8	837.3	729.8	727.9	729.8	725.8	723.9
20°	4753.0	4552.0	3549.8	2050.3	954.6	706.0	696.0	696.0	698.0	696.0	696.0
22.5°	4921.9	4643.6	3319.1	1565.1	719.9	670.2	668.2	672.2	676.1	674.2	674.2
25°	5130.8	4762.9	3014.9	1071.9	644.3	640.3	642.4	650.3	658.3	660.2	658.3
27.5°	5433.1	4910.0	2688.7	737.8	590.6	594.6	614.5	634.4	646.3	648.3	648.3
30°	5773.1	5073.1	2263.1	598.6	546.8	546.8	570.7	608.5	634.4	638.4	640.3
32.5°	6210.6	5262.0	1791.8	538.9	505.1	501.1	523.0	568.8	616.5	630.4	630.4
35°	6751.6	5484.8	1332.4	501.1	475.3	465.3	477.3	515.1	576.7	616.5	620.4
37.5°	7386.0	5695.5	974.4	467.4	447.5	433.5	441.5	471.3	521.0	580.7	596.6
40°	7972.6	5882.5	727.9	439.5	419.6	409.7	415.6	429.6	471.3	527.0	536.9
42.5°	8612.9	6027.7	578.7	409.7	391.7	387.8	387.8	393.8	421.6	453.4	455.4
45°	9251.3	6079.4	485.2	373.9	361.9	365.9	363.9	359.9	371.8	367.9	367.9
47.5°	9706.7	6017.7	401.7	340.1	340.1	346.0	336.1	322.1	316.2	292.4	294.3
50°	10019.0	5793.0	330.1	300.3	316.2	324.2	304.3	282.4	260.5	234.7	228.7
52.5°	10148.2	5393.3	270.4	248.6	280.4	290.3	266.5	240.6	206.8	184.9	179.0
55°	10064.7	4900.1	224.7	202.9	236.6	248.6	224.7	194.9	157.1	133.3	129.3
57.5°	9696.8	4311.4	190.9	161.1	188.9	196.8	181.0	149.2	111.3	87.5	87.5
60°	9060.4	3702.9	155.1	127.2	141.2	153.2	137.2	107.3	75.6	53.7	49.7
62.5°	7769.7	3006.9	125.3	99.4	99.4	109.4	95.4	77.6	47.8	27.9	25.8
65°	5610.0	2062.3	99.4	73.6	71.6	71.6	59.7	51.7	27.9	11.9	8.0
67.5°	3048.6	1163.4	79.6	55.7	49.7	47.8	37.8	29.8	11.9	2.0	0.0
70°	1199.2	447.5	61.6	37.8	31.8	29.8	19.9	13.9	8.0	0.0	0.0
71°	813.4	308.3	53.7	31.8	25.8	21.8	15.9	11.9	6.0	0.0	0.0
72.5°	465.3	190.9	41.7	23.9	19.9	15.9	11.9	8.0	6.0	0.0	0.0
75°	202.9	97.5	25.8	17.9	13.9	9.9	8.0	6.0	2.0	0.0	0.0
77.5°	103.4	53.7	17.9	13.9	8.0	6.0	4.0	2.0	0.0	0.0	0.0
80°	57.7	27.9	11.9	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	31.8	15.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.0	0.0	0.0	0.0	0.0	2.0	2.0	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)