

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: P455913

Luminaire Tested: **GALN-SA7A-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455913
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-SA7A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 19261 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

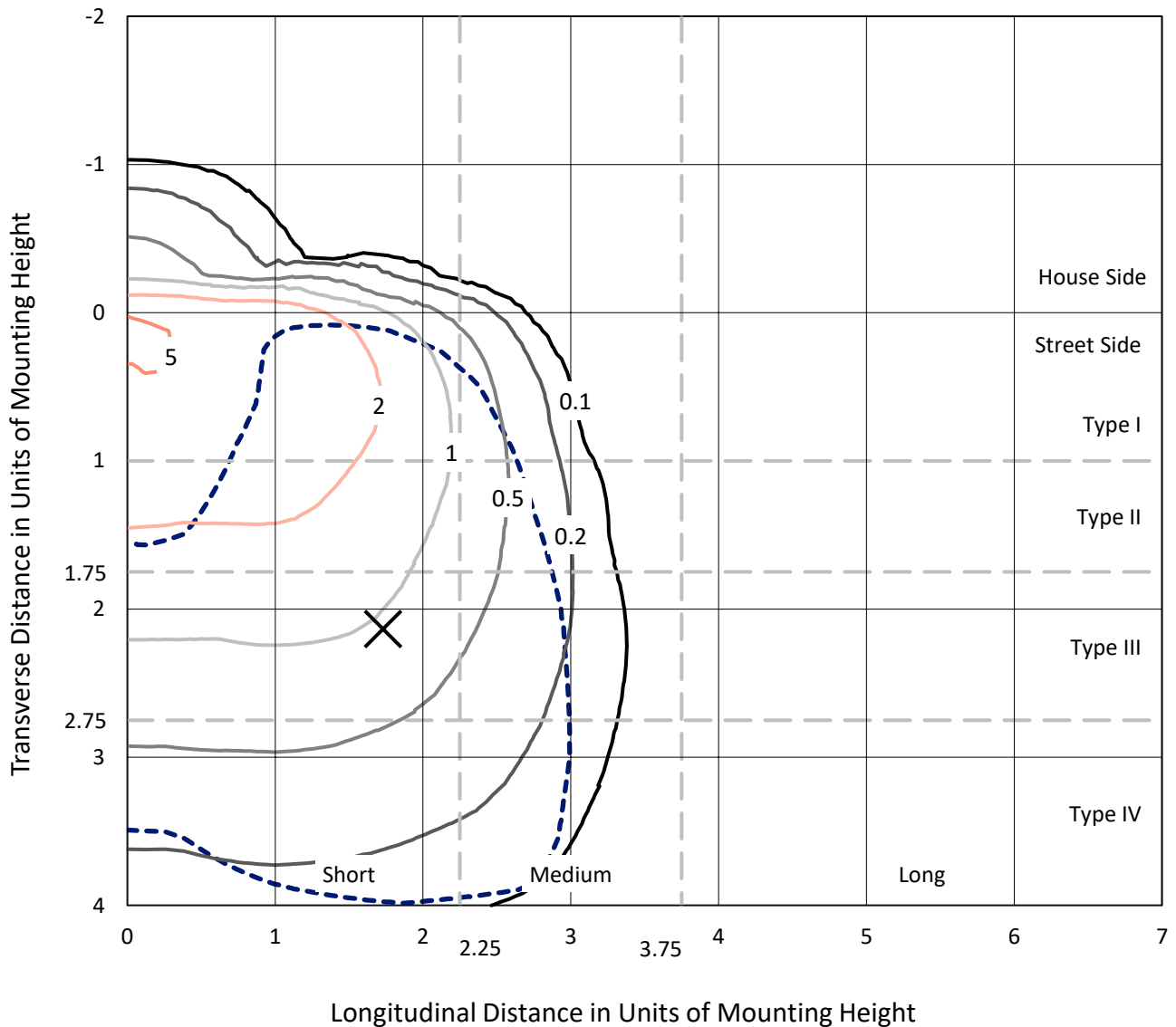
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

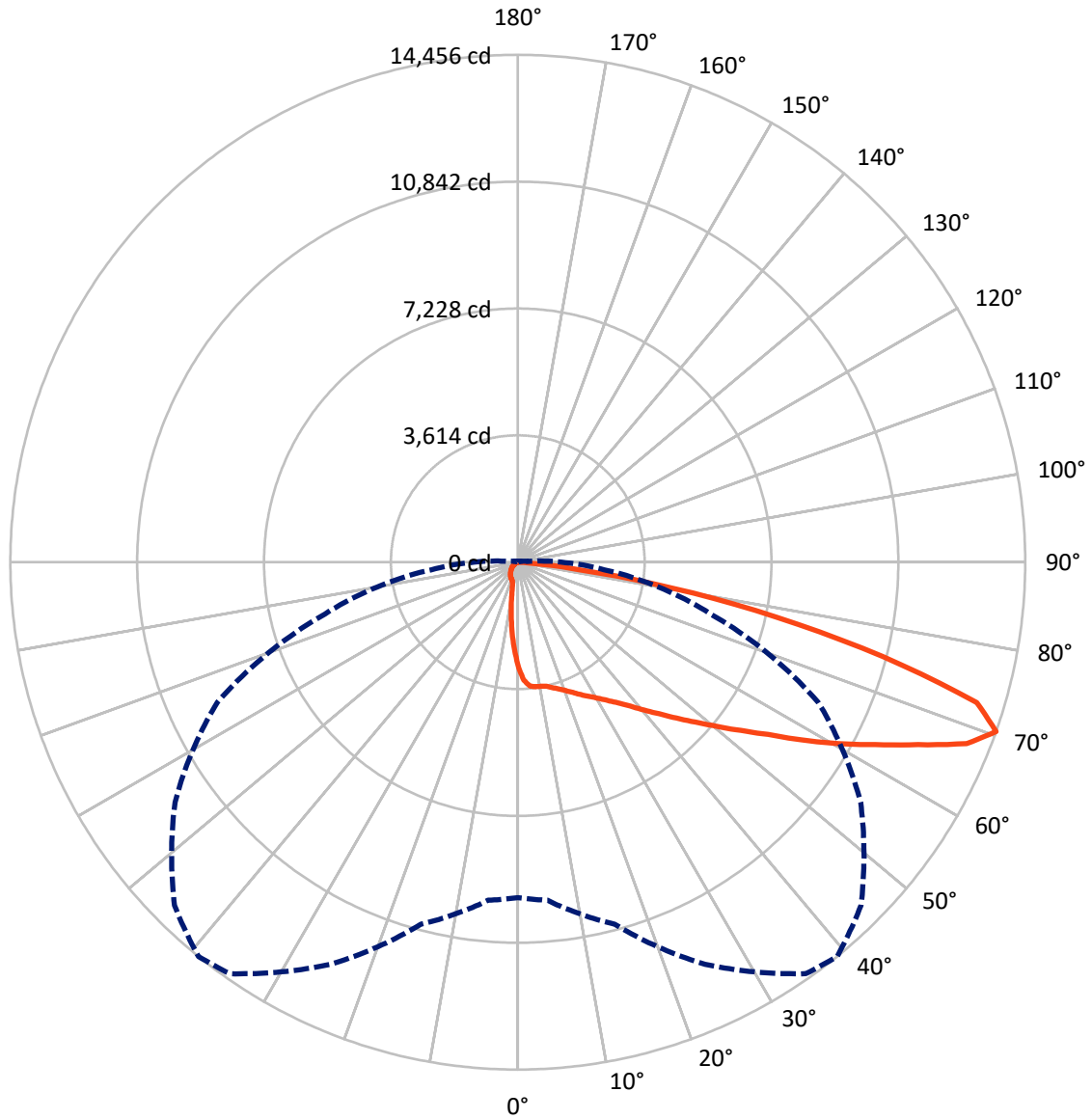
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1255.9	0.0	1255.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	18005.1	0.0	18005.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	19261.0	0.0	19261.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.3
10°-20°	666.1	3.5
20°-30°	1116.0	5.8
30°-40°	1730.8	9.0
40°-50°	2742.7	14.2
50°-60°	4020.4	20.9
60°-70°	5153.2	26.8
70°-80°	3238.1	16.8
80°-90°	337.3	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°	19261.0	100.0
0°-180°	19261.0	100.0

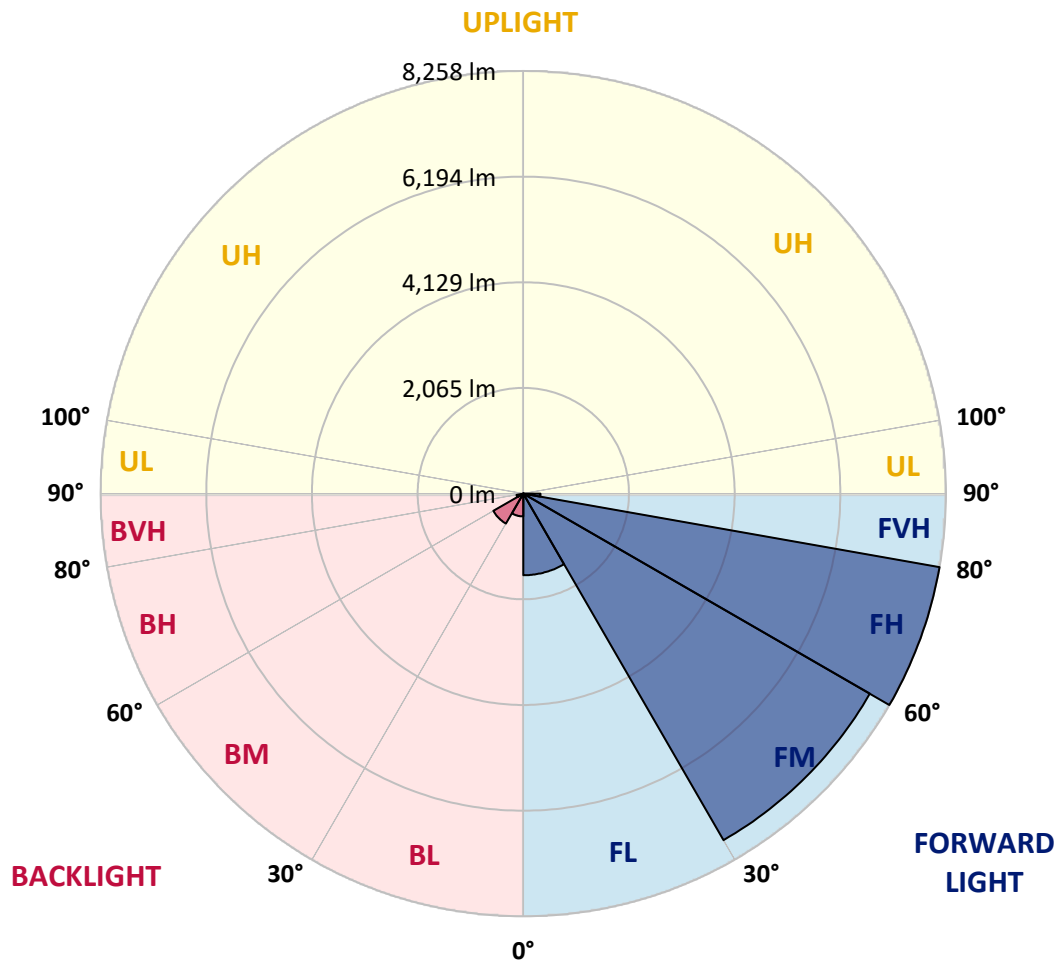


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.8	8.3			
FM (30°-60°)	7818.0	40.6			
FH (60°-80°)	8258.5	42.9			G4/12000
FVH (80°-90°)	334.8	1.7			G3/500
BL (0°-30°)	444.7	2.3	B1/500		
BM (30°-60°)	675.9	3.5	B1/1000		
BH (60°-80°)	132.8	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4
2.5°	3472.6	3461.0	3445.4	3427.3	3375.5	3366.5	3335.4	3269.4	3190.5	3125.7	3036.4
5°	3637.0	3643.5	3631.8	3599.5	3561.9	3539.9	3501.1	3398.8	3296.6	3165.9	3019.6
7.5°	3674.5	3687.5	3673.2	3642.2	3605.9	3582.6	3551.6	3463.6	3344.5	3195.6	2995.0
10°	3670.6	3686.2	3677.1	3648.6	3618.9	3596.9	3563.2	3493.3	3397.6	3240.9	3002.8
12.5°	3664.2	3684.9	3683.6	3669.4	3644.8	3627.9	3607.2	3545.1	3455.8	3306.9	3045.5
15°	3646.1	3671.9	3695.2	3706.9	3708.2	3708.2	3682.3	3616.3	3530.9	3393.7	3101.2
17.5°	3653.8	3683.6	3741.8	3775.5	3798.8	3796.2	3769.0	3697.8	3603.3	3483.0	3159.4
20°	3701.7	3741.8	3823.4	3890.7	3914.0	3906.2	3870.0	3787.1	3679.7	3559.3	3216.3
22.5°	3819.5	3855.7	3958.0	4036.9	4053.8	4033.1	3981.3	3868.7	3771.6	3642.2	3284.9
25°	3995.5	4038.2	4132.7	4192.3	4192.3	4180.6	4108.1	3976.1	3875.1	3757.4	3374.3
27.5°	4209.1	4245.3	4338.5	4391.6	4360.5	4326.9	4254.4	4095.2	3998.1	3902.3	3481.7
30°	4425.2	4448.5	4546.9	4570.2	4537.8	4495.1	4417.5	4258.3	4172.8	4099.1	3637.0
32.5°	4629.7	4680.2	4761.7	4756.6	4712.6	4691.9	4620.7	4451.1	4403.2	4395.5	3854.4
35°	4834.2	4873.1	4945.5	4963.7	4924.8	4920.9	4869.2	4743.6	4744.9	4795.4	4193.5
37.5°	5010.3	5045.2	5130.6	5170.7	5178.5	5197.9	5177.2	5094.4	5212.2	5350.7	4642.7
40°	5157.8	5207.0	5315.7	5385.6	5465.9	5537.0	5540.9	5559.0	5795.9	6034.1	5229.0
42.5°	5273.0	5341.6	5499.5	5628.9	5812.7	5903.3	5975.8	6075.5	6474.1	6830.0	5920.2
45°	5423.1	5502.1	5698.8	5902.0	6189.4	6338.2	6439.2	6705.8	7271.4	7756.8	6629.4
47.5°	5671.6	5713.1	5913.7	6210.1	6588.0	6800.3	6997.0	7400.8	8126.9	8561.8	7219.6
50°	5991.3	6018.5	6170.0	6581.5	7070.8	7350.4	7708.9	8183.9	9014.8	9229.7	7553.6
52.5°	6344.7	6353.7	6467.6	6990.5	7611.8	7963.9	8365.1	8951.4	9738.4	9706.0	7774.9
55°	6755.0	6742.0	6839.1	7434.5	8252.5	8655.0	9122.3	9737.1	10366.1	10043.8	7901.7
57.5°	7224.8	7189.9	7284.3	8023.4	9073.1	9554.6	10029.6	10415.3	10852.7	10327.3	7962.6
60°	7716.6	7646.8	7759.4	8684.8	10039.9	10496.8	10891.6	10995.1	11365.3	10552.5	7857.7
62.5°	8108.8	8110.1	8319.8	9388.9	11034.0	11433.9	11643.6	11736.8	11806.7	10503.3	7306.4
65°	8721.0	8741.7	9077.0	10366.1	12184.6	12531.5	12675.1	12372.3	11826.1	9892.4	6478.0
67.5°	9352.6	9418.7	10032.2	11712.2	13513.8	13793.4	13608.3	12495.2	11298.0	8498.4	4911.9
70°	9558.4	9667.2	10678.0	12638.9	14311.1	14456.1	13829.7	11921.8	9444.5	5682.0	2472.1
72.5°	8758.6	8934.6	10306.6	12301.1	13802.5	13676.9	12373.6	9998.5	6004.3	2157.6	754.6
75°	6176.4	6254.1	8565.7	10204.3	11101.3	10745.3	9412.2	6445.6	2469.5	605.7	258.9
77.5°	3189.2	3151.6	5094.4	6770.5	7917.3	7548.4	6163.5	3336.7	935.8	252.4	160.5
80°	1648.9	1676.1	2204.2	3547.7	4832.9	4447.2	3286.2	1546.7	498.3	139.8	123.0
82.5°	924.1	867.2	1267.1	1549.3	2259.9	1771.9	1260.7	1095.0	217.4	84.1	116.5
85°	168.3	176.0	695.0	837.4	784.3	498.3	406.4	731.3	63.4	46.6	81.5
87.5°	2.6	2.6	134.6	240.7	152.7	69.9	128.1	104.8	12.9	18.1	14.2
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°	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4
2.5°	2991.1	2942.0	2850.1	2759.5	2644.3	2549.8	2486.4	2420.4	2353.0	2358.2	2373.8
5°	2939.4	2853.9	2672.7	2481.2	2297.4	2131.7	1968.6	1822.4	1762.8	1708.5	1711.1
7.5°	2887.6	2767.2	2501.9	2201.6	1923.3	1641.2	1436.7	1268.4	1179.1	1111.8	1092.4
10°	2864.3	2705.1	2345.3	1932.4	1537.6	1229.6	966.8	829.6	723.5	689.9	698.9
12.5°	2874.7	2674.0	2204.2	1689.1	1219.2	856.8	673.0	603.1	579.8	576.0	573.4
15°	2894.1	2652.0	2065.7	1419.9	895.7	636.8	565.6	552.7	550.1	547.5	548.8
17.5°	2920.0	2632.6	1918.2	1167.5	687.3	556.6	535.8	529.4	528.1	528.1	528.1
20°	2945.8	2610.6	1753.8	942.3	573.4	525.5	512.5	508.7	507.4	507.4	506.1
22.5°	2975.6	2591.2	1586.8	740.3	528.1	503.5	491.8	489.2	488.0	486.7	486.7
25°	3018.3	2566.6	1409.5	605.7	499.6	482.8	471.1	468.5	467.2	462.1	463.4
27.5°	3075.3	2548.5	1227.0	522.9	473.7	456.9	449.1	445.2	442.7	438.8	440.1
30°	3152.9	2533.0	1032.9	477.6	443.9	429.7	421.9	419.4	416.8	412.9	412.9
32.5°	3287.5	2539.4	828.4	441.4	416.8	399.9	392.2	389.6	387.0	383.1	383.1
35°	3489.4	2577.0	662.7	410.3	384.4	367.6	359.8	359.8	355.9	350.8	349.5
37.5°	3819.5	2672.7	532.0	380.5	353.3	337.8	328.8	326.2	322.3	314.5	313.2
40°	4209.1	2821.6	447.8	350.8	324.9	309.3	301.6	293.8	283.5	275.7	274.4
42.5°	4698.3	2974.3	388.3	321.0	297.7	283.5	274.4	261.4	245.9	235.6	234.3
45°	5208.3	3114.1	348.2	293.8	271.8	260.2	249.8	229.1	209.7	196.7	195.4
47.5°	5588.8	3140.0	315.8	267.9	249.8	238.2	223.9	198.0	172.1	160.5	156.6
50°	5768.7	3014.4	282.2	242.0	227.8	214.9	196.7	167.0	138.5	124.3	121.7
52.5°	5832.1	2797.0	255.0	218.7	205.8	190.3	168.3	134.6	108.7	94.5	93.2
55°	5806.3	2522.6	230.4	196.7	179.9	161.8	139.8	107.4	80.2	68.6	66.0
57.5°	5670.4	2173.1	205.8	174.7	154.0	135.9	111.3	80.2	54.4	44.0	42.7
60°	5304.1	1696.8	181.2	150.1	130.7	111.3	88.0	56.9	33.7	24.6	24.6
62.5°	4685.4	1259.4	157.9	125.5	110.0	89.3	62.1	36.2	18.1	12.9	11.6
65°	3915.3	929.3	132.0	106.1	91.9	69.9	44.0	22.0	9.1	3.9	2.6
67.5°	2732.3	573.4	110.0	86.7	75.1	50.5	27.2	9.1	3.9	0.0	0.0
70°	1241.2	273.1	84.1	66.0	56.9	36.2	14.2	5.2	2.6	0.0	0.0
72.5°	385.7	143.7	59.5	47.9	38.8	23.3	7.8	3.9	2.6	0.0	0.0
75°	178.6	91.9	37.5	25.9	22.0	11.6	5.2	2.6	1.3	0.0	0.0
77.5°	133.3	71.2	22.0	14.2	11.6	7.8	3.9	2.6	1.3	0.0	0.0
80°	116.5	36.2	12.9	9.1	6.5	5.2	2.6	1.3	0.0	0.0	0.0
82.5°	104.8	18.1	7.8	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0
85°	56.9	10.4	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	3.9	2.6	2.6	1.3	1.3	1.3	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)