

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: P459468

Luminaire Tested: **GALN-SA9A-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459468
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-SA9A-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 27938 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

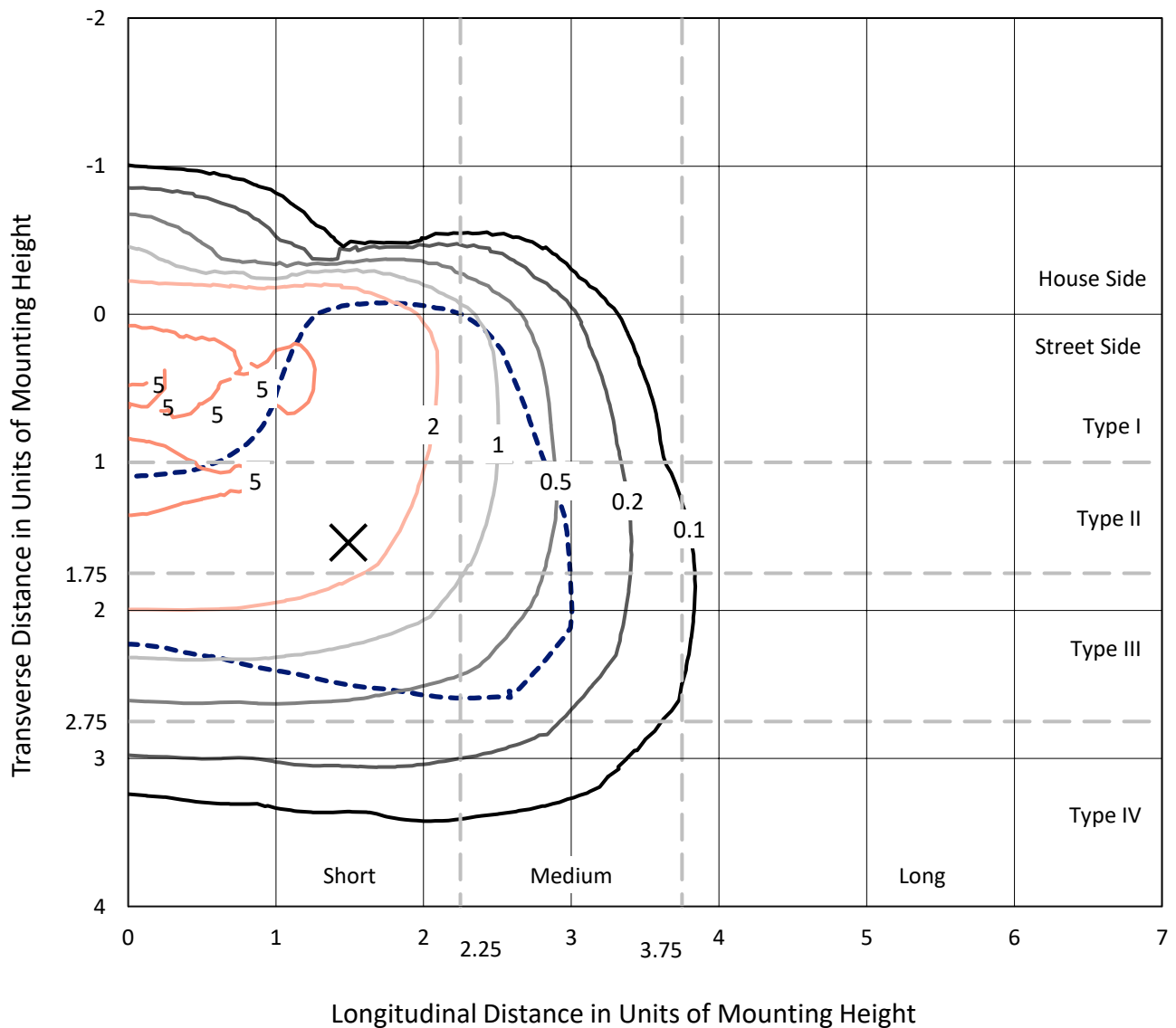
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

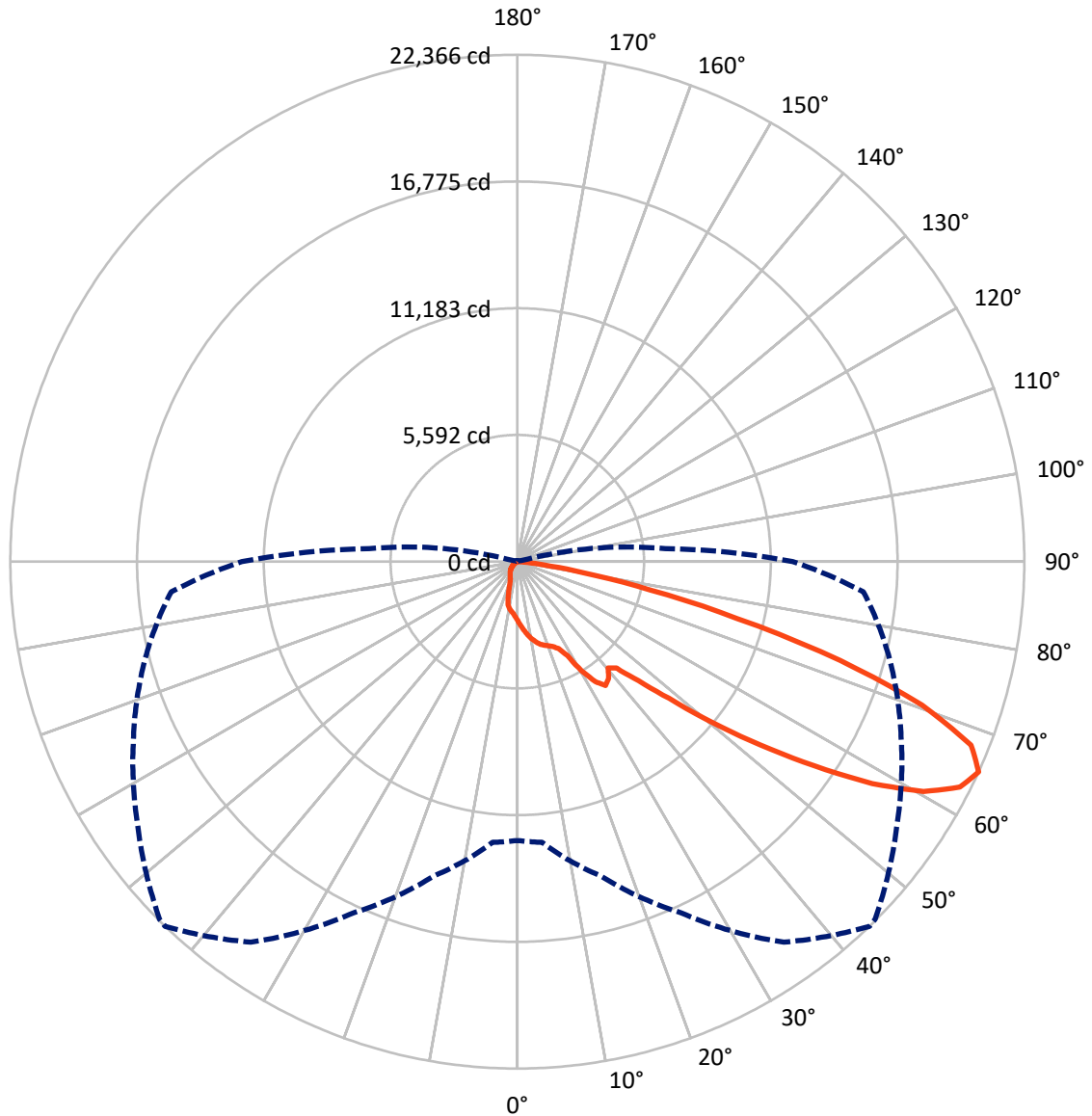
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2574.1	0.0	2574.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	25363.9	0.0	25363.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	27938.0	0.0	27938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	0.9
10°-20°	778.3	2.8
20°-30°	1319.8	4.7
30°-40°	2194.4	7.9
40°-50°	3831.5	13.7
50°-60°	7485.3	26.8
60°-70°	8684.7	31.1
70°-80°	3162.5	11.3
80°-90°	222.8	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°	27938.0	100.0
0°-180°	27938.0	100.0

Coefficient of Utilization



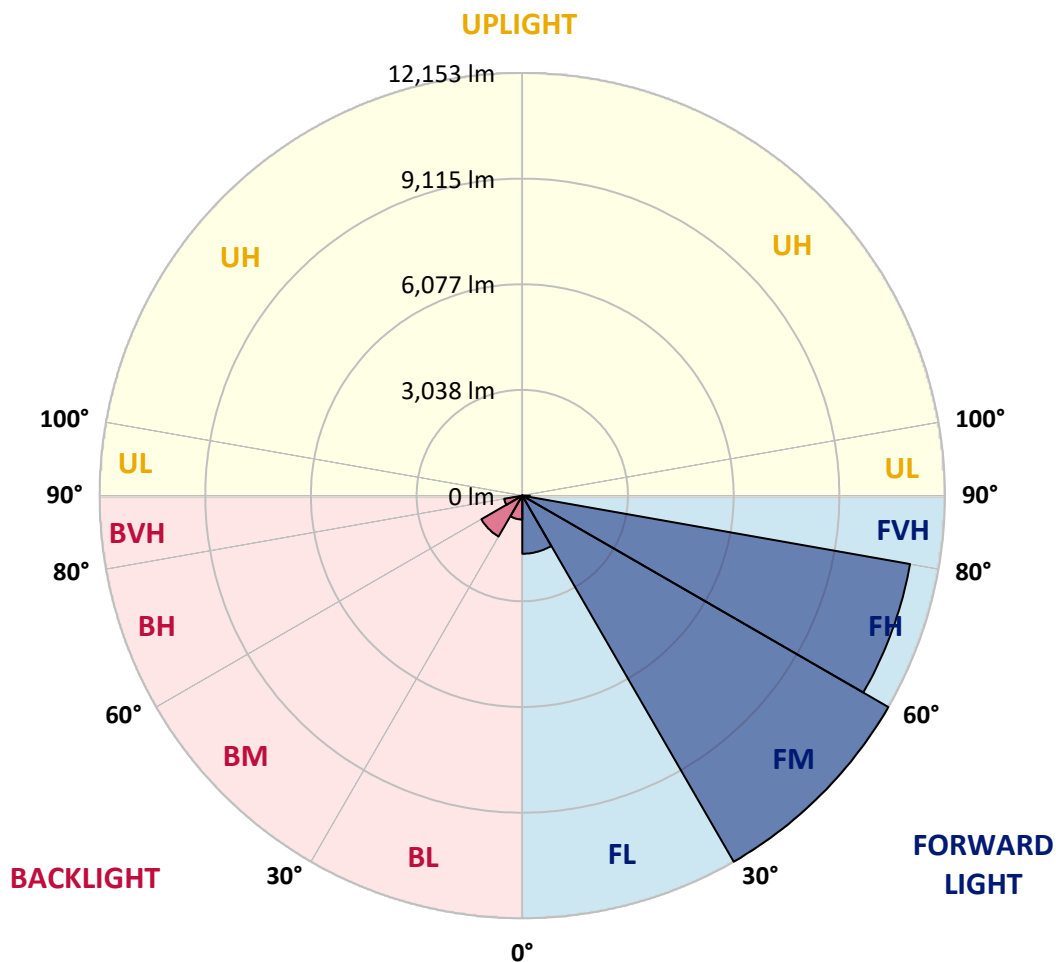
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.9	6.0			
FM (30°-60°)	12153.1	43.5			
FH (60°-80°)	11320.1	40.5			G4/12000
FVH (80°-90°)	219.8	0.8			G2/225
BL (0°-30°)	685.8	2.5	B2/1000		
BM (30°-60°)	1358.1	4.9	B2/2500		
BH (60°-80°)	527.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2926.8	2914.0	2907.6	2873.4	2847.8	2815.8	2815.8	2775.2	2728.3	2677.0	2630.1
5°	3253.4	3232.1	3204.3	3174.5	3114.7	3029.3	3029.3	2943.9	2845.7	2758.2	2662.1
7.5°	3567.3	3548.0	3501.1	3443.4	3345.2	3255.6	3249.2	3125.4	3007.9	2875.6	2739.0
10°	3842.7	3827.7	3787.1	3676.1	3573.7	3456.3	3454.1	3315.4	3178.7	3016.5	2847.8
12.5°	4034.8	4036.9	3983.5	3876.8	3744.5	3633.4	3624.9	3488.3	3345.2	3170.2	2963.1
15°	4171.4	4171.4	4115.9	3996.4	3876.8	3778.6	3770.1	3650.5	3503.2	3313.2	3089.1
17.5°	4209.8	4222.6	4162.9	4056.1	3960.1	3874.7	3872.5	3772.2	3654.8	3471.2	3217.2
20°	4194.9	4207.7	4160.7	4077.5	4011.3	3962.2	3955.8	3915.2	3806.4	3633.4	3353.8
22.5°	4162.9	4175.7	4141.5	4092.4	4060.4	4075.3	4064.7	4098.8	4041.2	3832.0	3516.0
25°	4169.3	4182.1	4156.5	4128.7	4156.5	4248.3	4276.0	4423.3	4372.1	4083.9	3691.1
27.5°	4369.9	4395.6	4359.3	4372.1	4470.3	4683.8	4737.1	4991.2	4764.9	4404.1	3964.3
30°	4816.1	4799.0	4730.7	4792.6	5134.2	5586.8	5571.8	5531.3	5176.9	4773.4	4288.8
32.5°	5221.7	5206.8	5202.5	5469.4	6088.5	6308.8	6297.7	5904.9	5546.2	5196.1	4609.0
35°	5386.1	5328.5	5315.7	5962.5	6997.9	6707.6	6641.4	6058.6	5994.5	5657.2	4935.7
37.5°	5881.4	5840.8	5642.3	6043.6	6635.0	6538.9	6487.7	6323.3	6472.7	6065.0	5305.0
40°	6901.8	6788.7	6609.4	6216.6	6120.5	6161.1	6212.3	6662.7	7038.5	6622.2	5798.1
42.5°	8169.9	8144.3	7811.3	7079.0	6359.6	6415.1	6481.3	7371.5	7851.8	7461.1	6603.0
45°	9692.0	9728.3	9248.0	8383.4	7439.8	7486.8	7582.8	8417.5	8953.4	8765.5	7868.9
47.5°	11075.4	11047.6	10885.4	9986.6	9115.6	9011.0	9166.9	9760.3	10477.6	10507.5	9440.1
50°	12467.3	12614.6	12373.3	12021.1	11374.3	11154.4	11096.7	11387.1	12480.1	12337.0	11327.3
52.5°	14467.6	14544.4	14091.9	14002.2	14149.5	13436.5	13378.8	13449.3	14427.0	13936.0	12740.5
55°	15725.0	15680.2	15511.5	16211.7	16794.5	15904.3	15831.7	15547.8	16043.1	15065.3	14100.4
57.5°	16122.1	16186.1	16578.9	17844.8	19223.9	18468.2	18335.9	17528.9	17208.7	16117.8	15351.4
60°	15944.9	16062.3	16909.8	18792.7	20705.5	20592.3	20479.2	19123.6	18045.5	16997.3	16228.8
62.5°	14683.2	14847.6	16203.2	18624.1	21207.2	21913.8	21772.9	20118.4	18602.7	17424.3	16382.5
65°	12305.0	12426.7	14373.7	17093.4	20494.1	22366.4	22315.1	20430.1	18690.2	17033.6	15330.0
67.5°	8771.9	9186.1	10990.0	14405.7	18385.0	21593.6	21681.1	20056.5	17868.3	15345.0	12695.7
70°	5514.2	5796.0	7089.7	10313.3	14738.7	18944.3	19232.5	18346.5	15507.2	11961.3	8498.7
72.5°	2630.1	2839.3	3761.5	6528.2	10402.9	14905.2	15133.6	15061.1	11991.2	7535.9	4384.9
75°	1172.0	1251.0	1795.4	3332.4	6716.1	10018.6	10610.0	10708.2	7493.2	3686.8	1705.7
77.5°	597.7	599.9	841.1	1613.9	3353.8	5977.5	6094.9	6438.6	4062.5	1624.6	593.5
80°	318.1	339.4	446.2	762.1	1739.9	2943.9	2929.0	3219.3	1801.8	796.3	198.5
82.5°	143.0	158.0	251.9	399.2	849.7	1116.5	1204.0	1317.2	772.8	508.1	87.5
85°	42.7	51.2	123.8	200.7	307.4	322.4	360.8	465.4	437.6	360.8	44.8
87.5°	6.4	6.4	51.2	55.5	44.8	57.6	59.8	66.2	140.9	132.4	23.5
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°	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2604.5	2589.5	2536.2	2491.3	2452.9	2429.4	2401.7	2384.6	2376.0	2369.6	2371.8
5°	2615.1	2578.8	2487.0	2414.5	2359.0	2299.2	2258.6	2235.1	2224.5	2207.4	2207.4
7.5°	2674.9	2617.3	2489.2	2378.2	2282.1	2201.0	2124.1	2096.4	2077.2	2072.9	2068.6
10°	2760.3	2687.7	2512.7	2359.0	2222.3	2111.3	2002.4	1906.4	1831.7	1786.8	1780.4
12.5°	2867.0	2762.4	2549.0	2346.2	2171.1	1974.7	1686.5	1492.2	1362.0	1321.4	1327.8
15°	2965.2	2852.1	2585.3	2335.5	2077.2	1637.4	1310.8	1088.8	1022.6	1016.2	1018.3
17.5°	3082.7	2948.2	2627.9	2320.5	1818.9	1251.0	973.5	913.7	926.5	947.9	945.7
20°	3204.3	3050.6	2679.2	2230.9	1451.7	941.4	860.3	866.7	885.9	905.2	909.4
22.5°	3334.6	3168.1	2739.0	2015.3	1108.0	819.8	815.5	824.0	843.2	864.6	868.9
25°	3513.9	3315.4	2783.8	1733.5	839.0	757.9	766.4	781.3	798.4	821.9	826.2
27.5°	3744.5	3513.9	2807.3	1366.3	725.8	702.4	704.5	725.8	747.2	768.5	768.5
30°	4043.3	3750.9	2760.3	1033.2	670.3	649.0	640.4	653.3	681.0	702.4	704.5
32.5°	4310.2	3975.0	2636.5	789.9	629.8	599.9	578.5	580.7	591.3	604.2	606.3
35°	4577.0	4192.8	2425.1	663.9	587.1	552.9	520.9	503.8	495.3	488.9	495.3
37.5°	4918.6	4463.9	2143.3	604.2	550.8	508.1	463.3	427.0	397.1	377.9	382.1
40°	5358.4	4839.6	1810.3	565.7	516.6	465.4	405.6	358.6	307.4	290.3	281.8
42.5°	6084.2	5409.6	1460.2	533.7	482.5	420.6	345.8	281.8	234.8	217.8	222.0
45°	7230.6	6129.0	1125.0	499.5	448.3	371.5	290.3	222.0	183.6	175.1	179.3
47.5°	8750.6	7059.8	866.7	461.1	405.6	318.1	228.4	175.1	151.6	149.4	147.3
50°	10180.9	7926.5	723.7	418.4	354.4	264.7	187.9	147.3	132.4	130.2	130.2
52.5°	11474.6	8547.8	589.2	369.3	298.9	217.8	158.0	130.2	117.4	111.0	111.0
55°	12625.2	8953.4	478.2	309.5	234.8	172.9	136.6	117.4	102.5	93.9	91.8
57.5°	13494.1	9002.5	358.6	247.6	175.1	134.5	117.4	102.5	85.4	74.7	70.4
60°	13865.6	8577.7	264.7	187.9	130.2	106.7	93.9	83.3	64.0	53.4	51.2
62.5°	13492.0	7751.5	196.4	143.0	100.3	79.0	66.2	61.9	44.8	32.0	29.9
65°	12153.5	6558.1	155.8	108.9	74.7	57.6	42.7	40.6	27.8	14.9	12.8
67.5°	9736.9	5136.3	123.8	81.1	53.4	38.4	27.8	25.6	14.9	4.3	4.3
70°	6331.8	3283.3	100.3	59.8	34.2	25.6	17.1	12.8	8.5	2.1	0.0
72.5°	3131.8	1534.9	81.1	47.0	23.5	12.8	6.4	4.3	6.4	0.0	0.0
75°	1214.7	546.5	59.8	32.0	12.8	6.4	4.3	0.0	2.1	0.0	0.0
77.5°	403.5	181.5	36.3	17.1	8.5	4.3	0.0	0.0	0.0	0.0	0.0
80°	149.4	70.4	19.2	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	59.8	27.8	12.8	8.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.9	17.1	8.5	6.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	12.8	8.5	6.4	4.3	2.1	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)