

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: P458244

Luminaire Tested: **GALN-SA9C-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34398 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

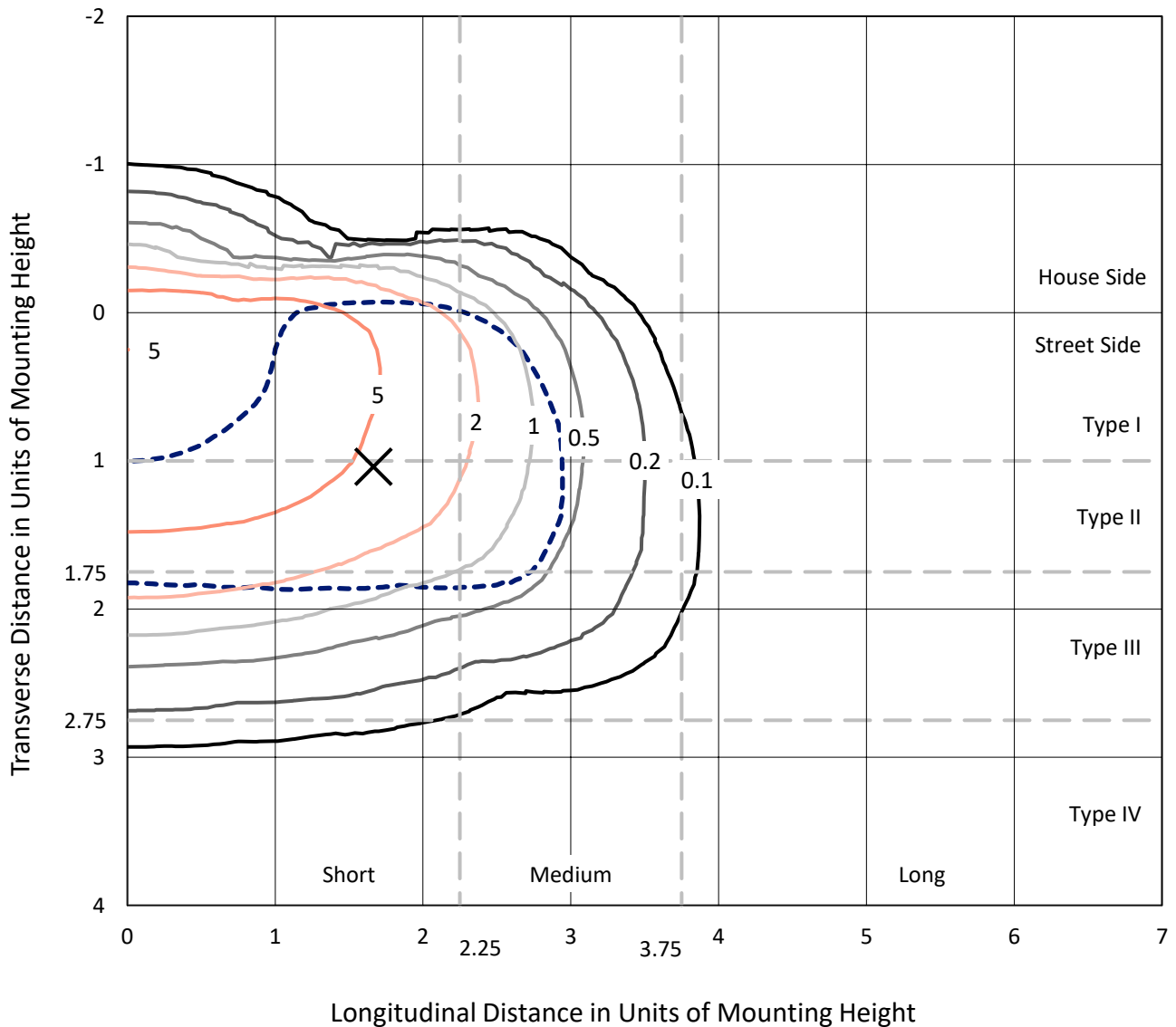
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

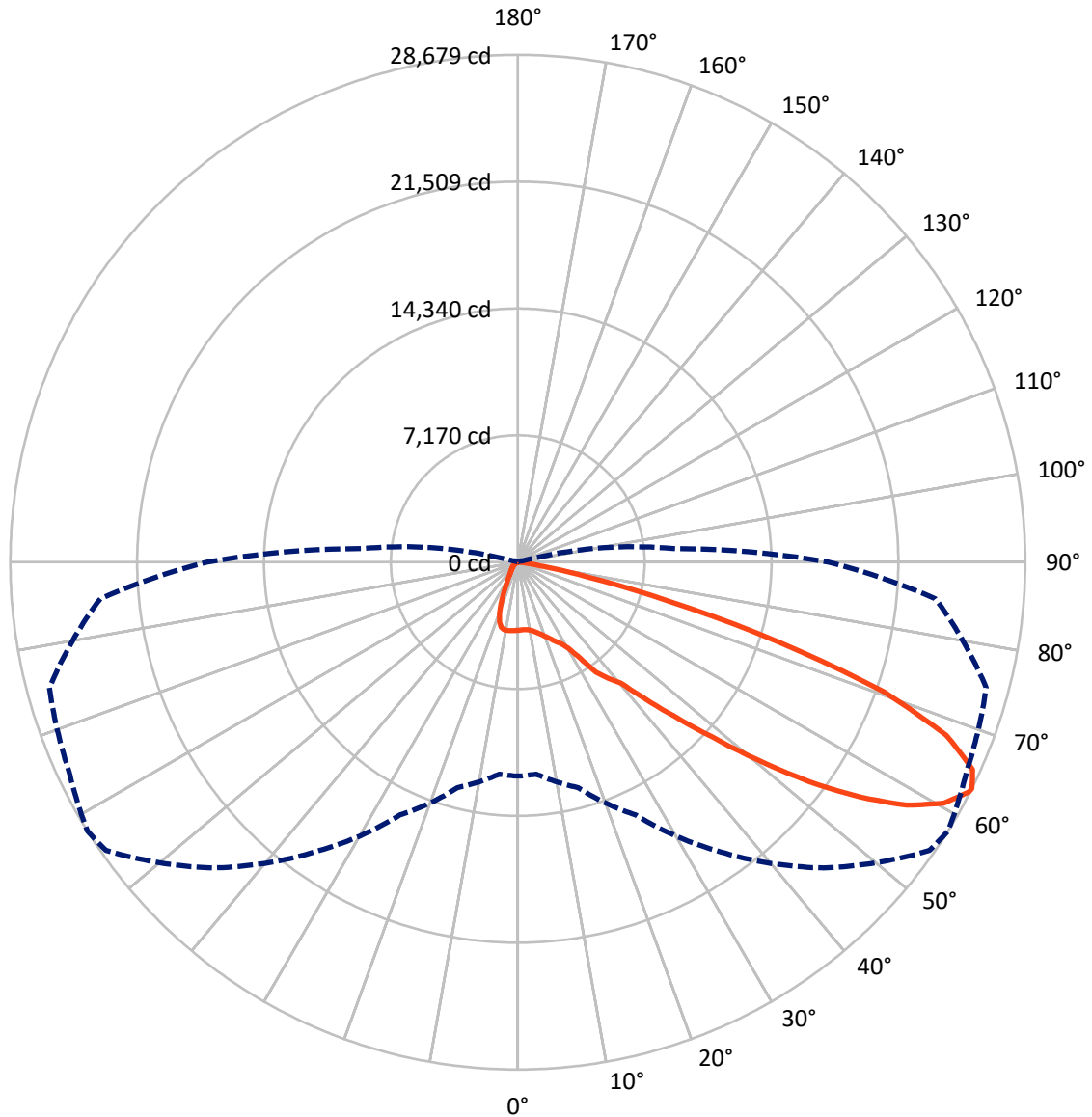
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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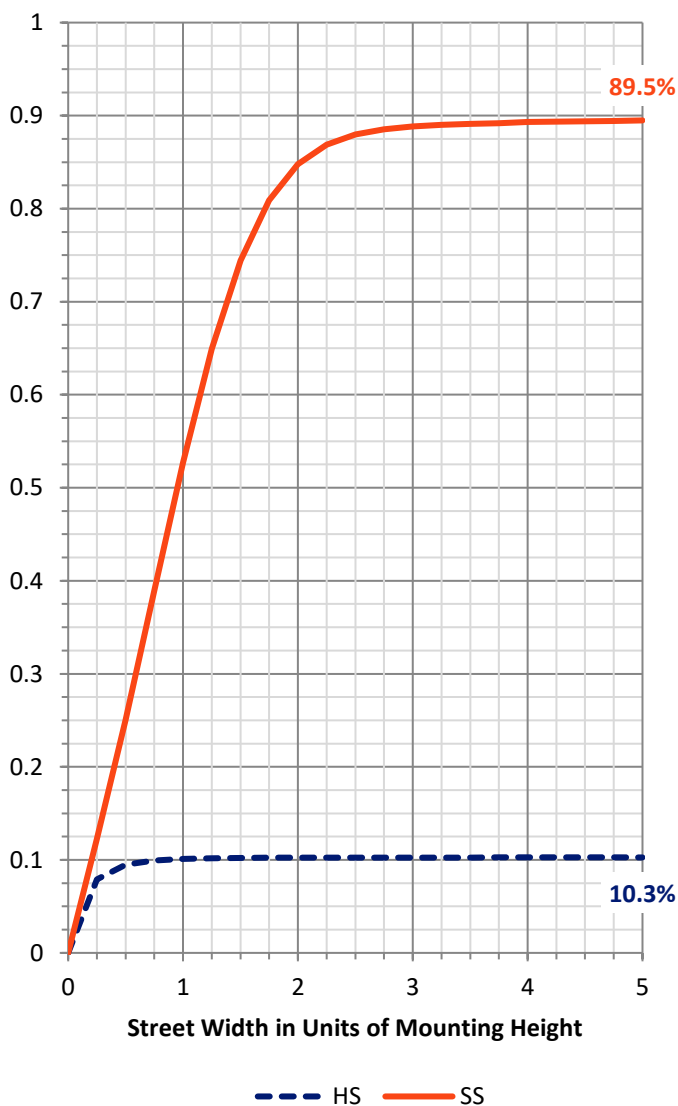
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3561.7	0.0	3561.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	30836.3	0.0	30836.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	34398.0	0.0	34398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	1.0
10°-20°	981.9	2.9
20°-30°	1704.1	5.0
30°-40°	3131.5	9.1
40°-50°	5895.0	17.1
50°-60°	10082.9	29.3
60°-70°	9654.4	28.1
70°-80°	2461.9	7.2
80°-90°	125.9	0.4
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°	34398.0	100.0
0°-180°	34398.0	100.0

Coefficient of Utilization



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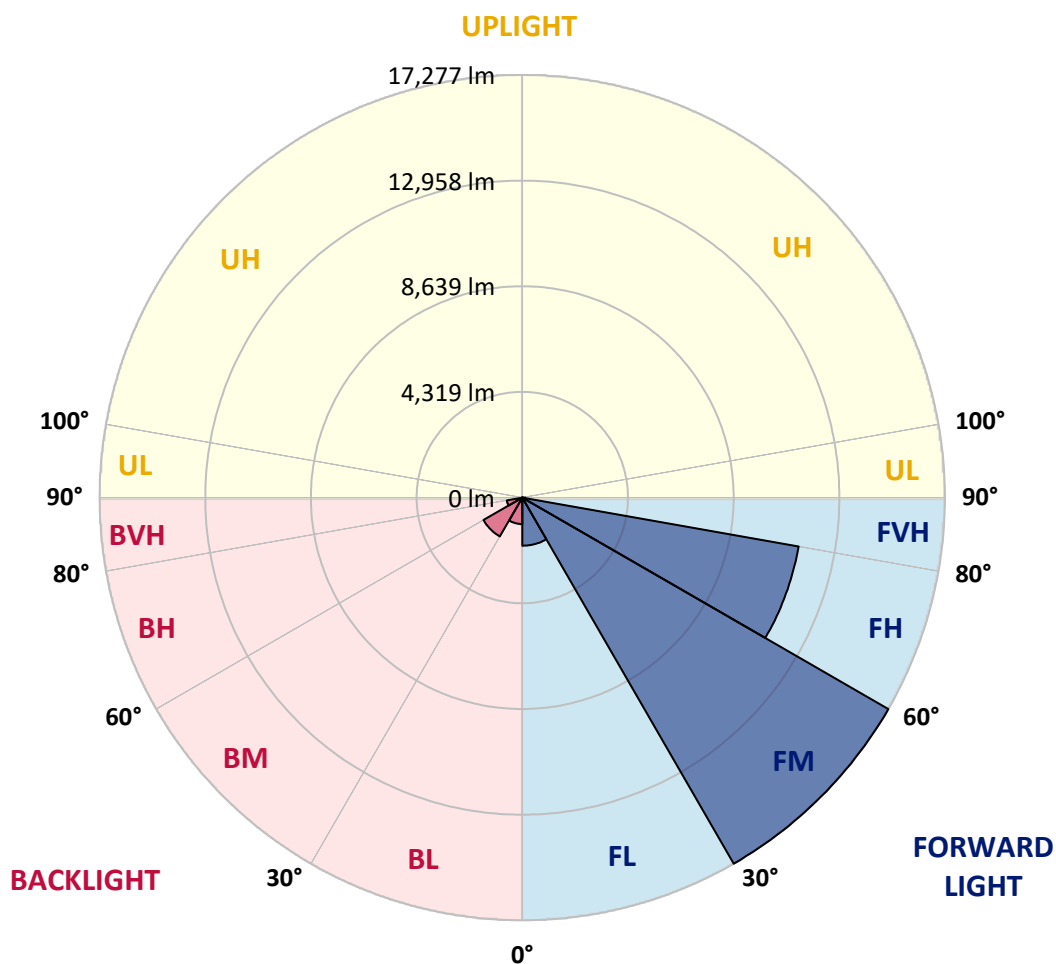
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1966.3	5.7			
FM (30°-60°)	17277.4	50.2			
FH (60°-80°)	11471.5	33.3			G4/12000
FVH (80°-90°)	121.0	0.4			G2/225
BL (0°-30°)	1080.2	3.1	B3/2500		
BM (30°-60°)	1831.9	5.3	B2/2500		
BH (60°-80°)	644.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0
2.5°	3755.2	3768.1	3781.1	3786.2	3804.4	3822.5	3835.5	3832.9	3853.6	3863.9	3863.9
5°	3605.0	3605.0	3638.6	3669.7	3721.5	3773.3	3822.5	3832.9	3871.7	3908.0	3920.9
7.5°	3478.1	3485.8	3511.7	3568.7	3638.6	3729.3	3827.7	3851.0	3918.3	3998.6	4032.3
10°	3418.5	3423.7	3457.3	3516.9	3605.0	3729.3	3866.5	3910.6	4014.1	4141.0	4187.7
12.5°	3405.5	3413.3	3447.0	3514.3	3615.3	3765.5	3952.0	3998.6	4148.8	4312.0	4381.9
15°	3428.9	3434.0	3467.7	3540.2	3651.6	3830.3	4065.9	4130.7	4309.4	4498.4	4589.1
17.5°	3511.7	3506.5	3529.9	3589.4	3713.7	3910.6	4203.2	4280.9	4490.7	4749.6	4809.2
20°	3863.9	3830.3	3809.6	3757.8	3807.0	4024.5	4368.9	4482.9	4741.9	5006.0	5047.5
22.5°	4622.7	4547.6	4400.0	4198.0	4042.6	4179.9	4568.4	4700.4	5034.5	5293.5	5293.5
25°	5588.7	5492.9	5345.3	4905.0	4524.3	4436.3	4793.7	4959.4	5353.1	5614.6	5529.2
27.5°	6798.1	6723.0	6435.6	5922.8	5340.1	4884.3	5055.2	5208.0	5635.3	5951.3	5772.6
30°	7782.3	7746.0	7510.3	7051.9	6409.7	5744.1	5542.1	5643.1	6010.9	6376.0	6192.1
32.5°	8613.6	8613.6	8372.7	7945.4	7344.6	6754.1	6368.2	6440.8	6793.0	7215.1	6873.3
35°	9527.8	9496.7	9302.5	8895.9	8222.5	7702.0	7544.0	7642.4	7961.0	8274.3	7432.6
37.5°	10488.6	10478.2	10276.2	9882.6	9333.5	8678.3	8308.0	8333.9	8497.0	8688.7	8087.9
40°	11532.2	11547.8	11283.6	11040.2	10522.2	9851.5	9141.9	8978.7	9131.5	9672.8	9297.3
42.5°	12765.0	12728.7	12614.8	12283.3	11866.3	11464.9	10612.9	10553.3	10688.0	11268.1	10861.5
45°	14197.1	14248.9	14052.1	13868.2	13588.5	13254.4	12542.3	12438.7	12586.3	13487.5	12910.0
47.5°	15631.9	15582.7	15709.5	15675.9	15826.1	15577.5	14948.2	14735.8	15090.6	15945.2	15095.8
50°	16724.7	16779.1	17043.3	17429.2	18074.0	18213.9	17610.4	17537.9	17695.9	18244.9	17051.1
52.5°	17434.3	17615.6	18030.0	19021.9	20184.7	21088.5	20630.1	20591.3	20526.5	20674.1	18920.9
55°	17897.9	18081.8	18623.0	20083.7	22085.6	23554.0	23577.3	23411.5	22984.2	22878.0	20669.0
57.5°	17613.0	17649.3	18421.0	20373.7	23139.6	25312.4	26073.8	25908.1	25118.2	24716.8	22212.5
60°	15831.3	15906.4	16981.1	19275.7	22681.2	25887.3	27728.7	27653.6	26788.6	26335.4	23414.1
62.5°	12674.3	12891.9	13997.7	16556.4	20549.8	24918.8	28399.4	28611.8	27938.4	27314.3	23792.2
63°	12094.2	12024.3	13192.3	15763.9	19985.3	24439.7	28409.8	28679.1	27990.2	27407.5	23688.6
65°	8952.8	9162.6	9921.4	12430.9	16631.5	22209.9	27770.1	28246.6	27798.6	26995.8	22541.4
67.5°	5026.7	5016.4	5855.5	8134.5	11641.0	17421.4	25110.4	26117.8	26024.6	24224.7	18685.2
70°	2460.3	2499.1	2843.6	4216.1	6751.5	12019.1	20865.8	21953.5	21987.2	19027.0	12920.4
72.5°	1113.6	1131.7	1377.8	2053.7	3470.3	6399.3	14378.4	15416.9	15225.3	12125.3	7134.8
75°	587.9	626.7	758.8	1033.3	1673.0	2639.0	7821.1	8825.9	8424.5	5539.5	2626.0
77.5°	435.1	448.0	515.4	657.8	896.1	1028.1	3374.5	4014.1	3760.3	2004.5	870.2
80°	318.5	328.9	383.3	466.2	564.6	523.1	1271.6	1458.0	1307.8	681.1	266.7
82.5°	194.2	196.8	279.7	347.0	354.8	292.6	419.5	450.6	471.3	383.3	145.0
85°	69.9	88.1	189.1	251.2	209.8	147.6	176.1	194.2	212.4	243.4	85.5
87.5°	7.8	10.4	90.6	121.7	59.6	54.4	64.7	72.5	77.7	90.6	41.4
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°	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0
2.5°	3874.3	3884.7	3876.9	3863.9	3861.3	3853.6	3838.0	3838.0	3838.0	3843.2	3838.0
5°	3931.3	3939.0	3920.9	3895.0	3866.5	3830.3	3791.4	3768.1	3765.5	3760.3	3747.4
7.5°	4040.0	4050.4	4009.0	3946.8	3869.1	3781.1	3698.2	3620.5	3584.2	3555.8	3555.8
10°	4198.0	4208.4	4125.5	4014.1	3858.8	3680.1	3483.2	3304.5	3164.7	3100.0	3084.4
12.5°	4387.1	4392.3	4255.0	4060.8	3804.4	3459.9	3040.4	2649.3	2377.4	2253.1	2240.2
15°	4594.3	4558.0	4376.7	4078.9	3649.0	3006.7	2281.6	1802.5	1520.2	1437.3	1468.4
17.5°	4804.0	4736.7	4469.9	4050.4	3299.4	2281.6	1533.1	1230.1	1142.1	1118.8	1118.8
20°	5000.8	4907.6	4537.3	3926.1	2693.4	1572.0	1136.9	1064.4	1048.9	1033.3	1035.9
22.5°	5197.7	5055.2	4596.8	3649.0	2007.1	1124.0	1017.8	994.5	973.8	953.0	950.4
25°	5389.3	5192.5	4620.2	3136.2	1367.4	966.0	929.7	898.7	857.2	833.9	828.7
27.5°	5588.7	5358.2	4604.6	2488.8	997.1	865.0	828.7	784.7	735.5	694.1	694.1
30°	5972.0	5674.2	4550.2	1789.5	839.1	761.4	714.8	644.9	590.5	549.0	546.4
32.5°	6495.1	6086.0	4363.8	1258.6	745.9	670.8	600.8	523.1	466.2	435.1	435.1
35°	6961.3	6500.3	4014.1	927.1	670.8	582.7	497.2	422.1	378.1	357.4	349.6
37.5°	7670.9	7106.3	3532.4	753.6	598.2	505.0	417.0	347.0	310.8	295.2	295.2
40°	8735.3	7847.0	2942.0	660.4	528.3	429.9	347.0	292.6	264.2	246.0	246.0
42.5°	10056.1	8753.4	2343.7	593.1	463.6	370.3	290.1	248.6	222.7	209.8	207.2
45°	11718.7	9709.1	1805.1	530.9	411.8	316.0	246.0	209.8	183.9	176.1	178.7
47.5°	13453.9	10550.7	1398.5	476.5	357.4	266.7	209.8	181.3	163.2	152.8	152.8
50°	14935.2	11130.8	1061.8	414.4	316.0	225.3	183.9	163.2	147.6	142.4	139.8
52.5°	16173.1	11299.2	813.2	360.0	277.1	194.2	163.2	147.6	134.7	126.9	126.9
55°	17227.2	11151.6	637.1	303.0	233.1	168.3	145.0	132.1	116.5	108.8	106.2
57.5°	17843.5	10677.6	486.9	251.2	189.1	139.8	126.9	111.4	93.2	80.3	80.3
60°	18154.3	9988.7	372.9	207.2	145.0	111.4	103.6	82.9	64.7	54.4	51.8
62.5°	17781.4	9074.6	282.3	163.2	108.8	82.9	69.9	59.6	41.4	31.1	31.1
63°	17550.9	8810.4	271.9	155.4	101.0	77.7	64.7	54.4	36.3	28.5	25.9
65°	15999.6	7658.0	222.7	124.3	80.3	54.4	44.0	38.8	25.9	12.9	10.4
67.5°	12705.4	5858.1	176.1	93.2	57.0	38.8	25.9	23.3	7.8	0.0	0.0
70°	8590.3	3783.7	137.3	67.3	38.8	23.3	12.9	10.4	2.6	0.0	0.0
72.5°	4480.3	1939.7	106.2	49.2	23.3	15.5	7.8	2.6	0.0	0.0	0.0
75°	1584.9	660.4	77.7	31.1	15.5	7.8	2.6	0.0	0.0	0.0	0.0
77.5°	479.1	246.0	49.2	23.3	10.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	168.3	90.6	28.5	15.5	7.8	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	82.9	44.0	18.1	12.9	7.8	2.6	0.0	0.0	0.0	0.0	0.0
85°	46.6	28.5	15.5	12.9	7.8	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	33.7	20.7	15.5	12.9	10.4	5.2	2.6	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)