

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: P533538

Luminaire Tested: **GALN-SA9A-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29332 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

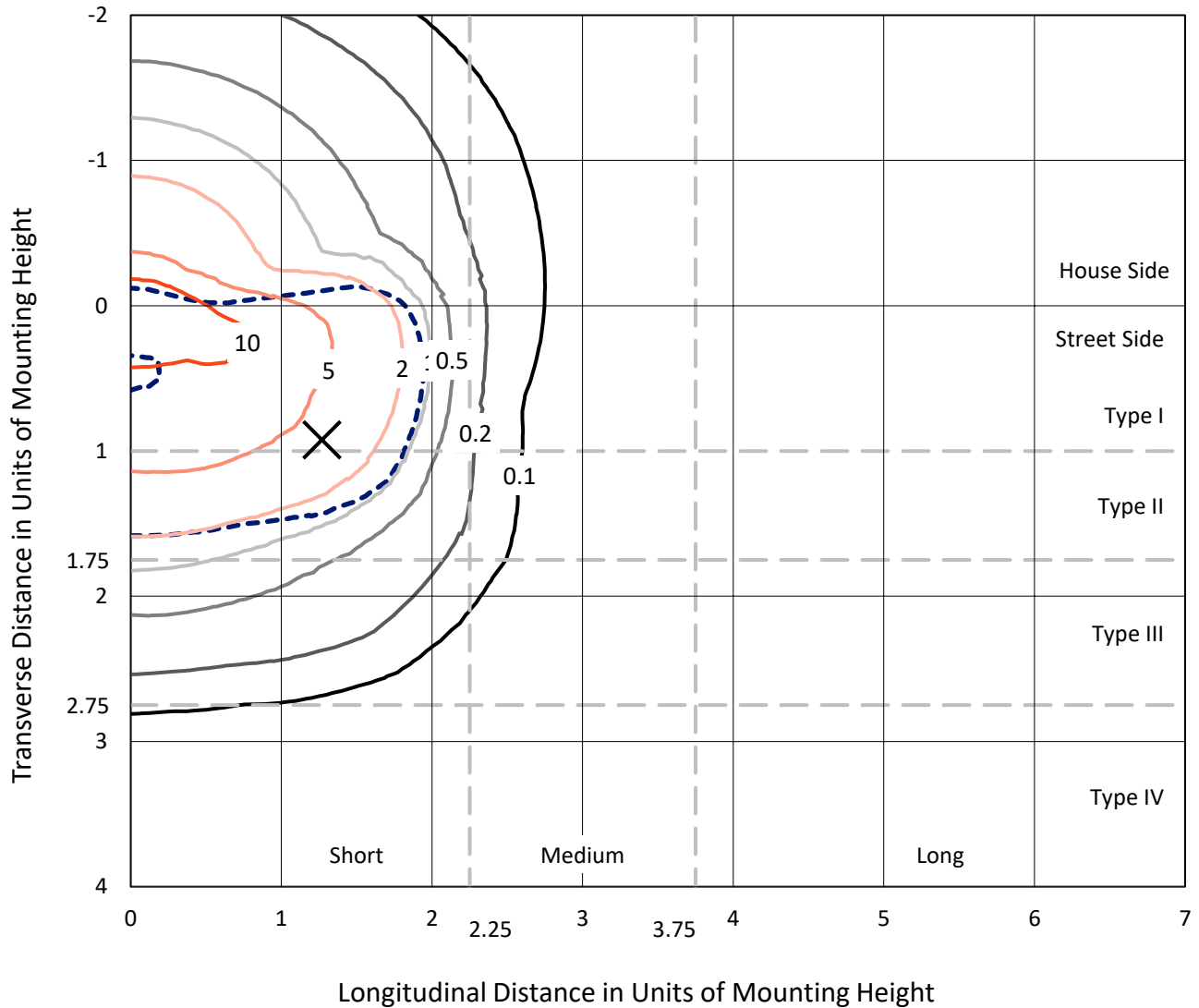
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533538
 CATALOG NUMBER: GALN-SA9A-727-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

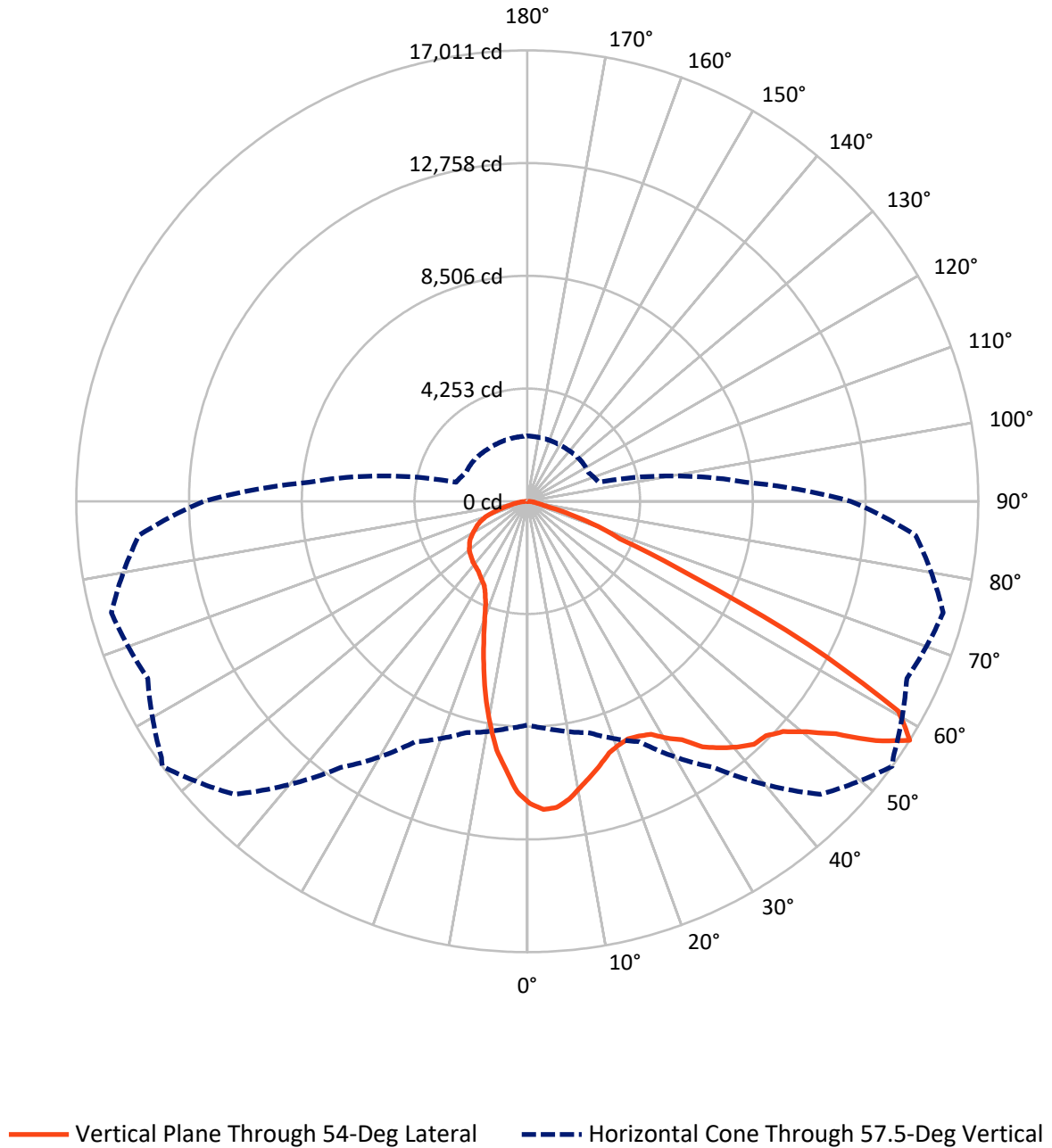
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

REPORT NUMBER: P533538
CATALOG NUMBER: GALN-SA9A-727-U-SL3-GRSWH

Luminous Intensity Polar Plot



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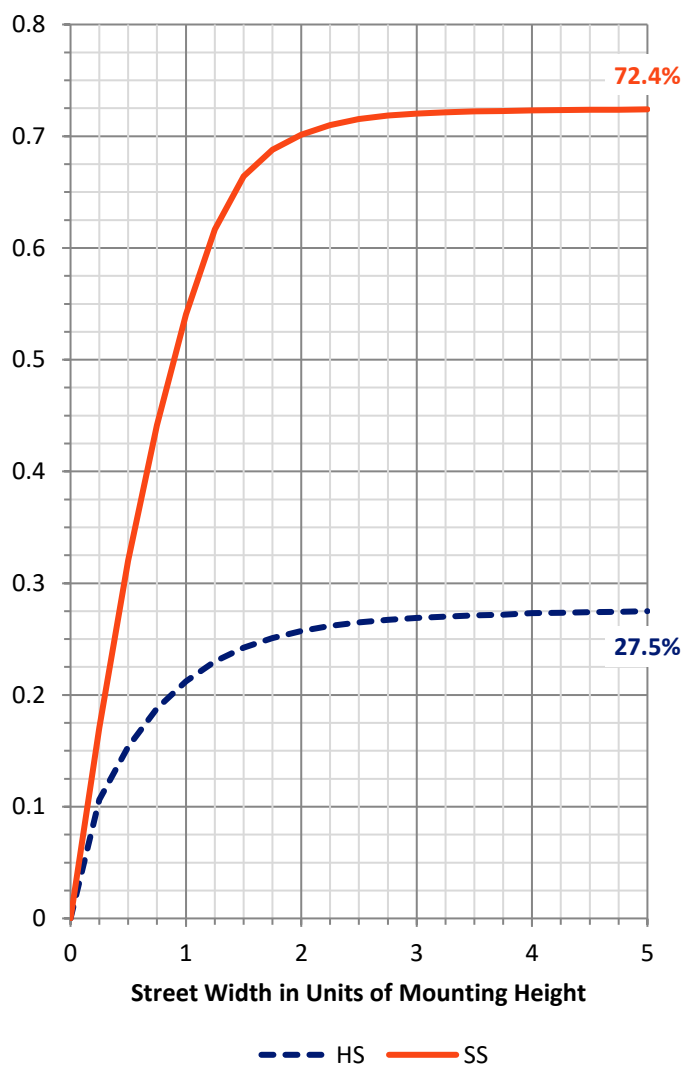
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8114.9	0.0	8114.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	21217.1	0.0	21217.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	29332.0	0.0	29332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.2	3.4
10°-20°	2276.5	7.8
20°-30°	3198.5	10.9
30°-40°	4471.6	15.2
40°-50°	6053.7	20.6
50°-60°	7373.7	25.1
60°-70°	3840.5	13.1
70°-80°	984.1	3.4
80°-90°	150.1	0.5
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°	29332.0	100.0
0°-180°	29332.0	100.0

Coefficient of Utilization



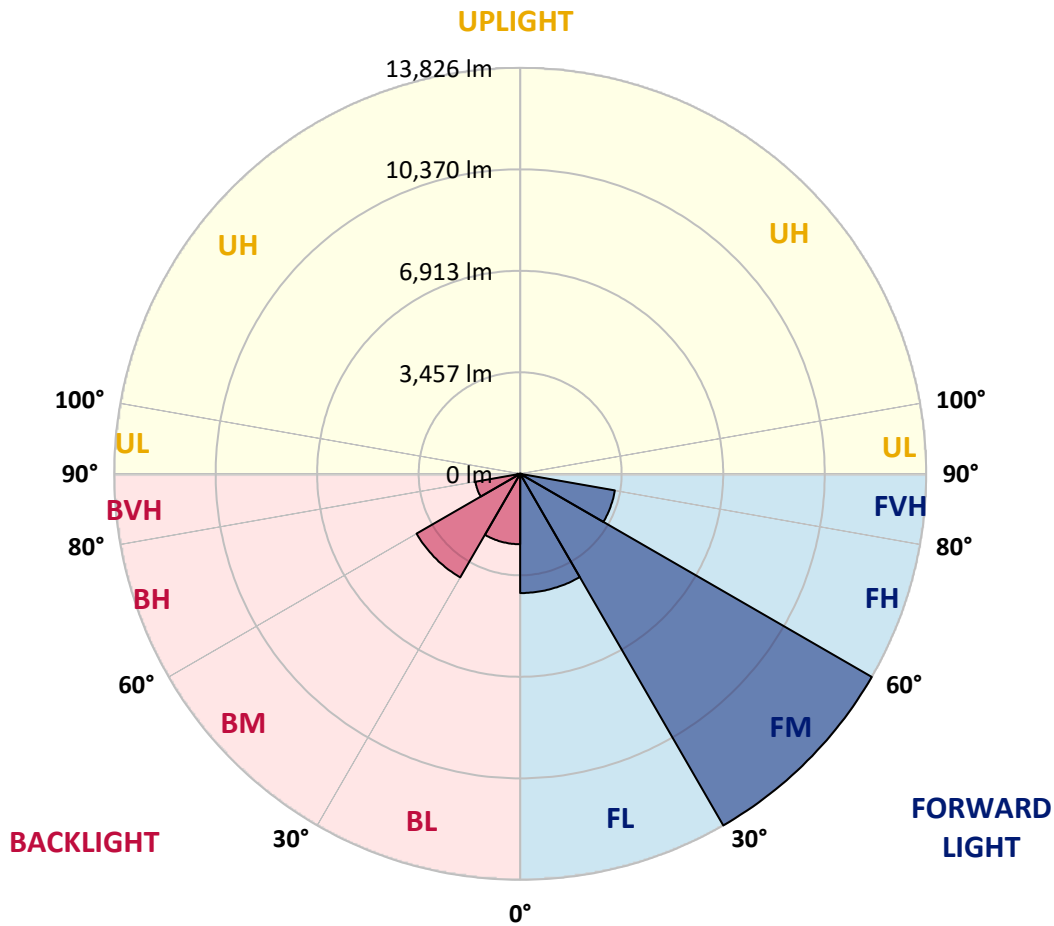
REPORT NUMBER: P533538
 CATALOG NUMBER: GALN-SA9A-727-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4059.9	13.8			
FM (30°-60°)	13826.2	47.1			
FH (60°-80°)	3274.3	11.2			G2/5000
FVH (80°-90°)	56.7	0.2			G1/100
BL (0°-30°)	2398.4	8.2	B3/2500		
BM (30°-60°)	4072.8	13.9	B3/5000		
BH (60°-80°)	1550.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P533538

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0
2.5°	11725.2	11680.0	11687.5	11747.9	11672.5	11642.3	11642.3	11495.3	11506.6	11404.8	11378.4
5°	11453.8	11348.2	11419.9	11510.3	11525.4	11555.6	11604.6	11566.9	11461.3	11352.0	11174.8
7.5°	10745.0	10839.3	10865.6	10929.7	11065.5	11189.9	11344.5	11238.9	11235.1	11125.8	11020.2
10°	10122.9	10066.4	10209.6	10303.9	10530.1	10737.5	10975.0	10963.7	11020.2	10895.8	10714.8
12.5°	9504.6	9459.4	9527.2	9742.1	10058.8	10360.4	10643.2	10537.6	10839.3	10816.6	10428.3
15°	8848.6	8882.5	8980.6	9180.4	9595.1	9957.0	10315.2	10319.0	10586.7	10677.1	10156.9
17.5°	8388.6	8350.9	8475.4	8773.2	9142.7	9576.2	9983.4	10066.4	10477.3	10530.1	10073.9
20°	8045.6	8098.3	8260.5	8411.3	8837.3	9361.3	9821.3	9851.5	10454.7	10598.0	9942.0
22.5°	7962.6	7932.5	7985.2	8230.3	8580.9	9150.2	9734.6	9847.7	10450.9	10575.3	9693.1
25°	7875.9	7973.9	7970.2	8215.2	8471.6	8980.6	9806.2	9930.6	10650.7	10692.2	9727.1
27.5°	8071.9	8060.6	8166.2	8185.1	8501.7	9025.8	9957.0	10051.3	10982.5	10948.6	9753.4
30°	8268.0	8211.4	8275.5	8498.0	8645.0	9285.9	10371.8	10364.2	11412.3	11389.7	9836.4
32.5°	8509.3	8482.9	8524.4	8720.4	8969.2	9632.8	10722.4	10944.8	11849.7	11992.9	10122.9
35°	8554.5	8663.9	8761.9	9025.8	9380.2	10194.6	11382.2	11566.9	12354.9	12803.5	10669.6
37.5°	8841.1	8882.5	9112.5	9580.0	9904.3	10944.8	11800.7	11917.5	12814.8	13323.8	11246.4
40°	9146.4	9195.5	9542.3	10032.4	10477.3	11434.9	12192.7	12230.5	12961.9	13723.4	11623.5
42.5°	9561.2	9606.4	9949.5	10564.0	11159.7	11853.4	12539.6	12581.1	12950.6	14183.4	12222.9
45°	9991.0	10100.3	10503.7	11201.2	11736.6	12343.6	12618.8	12788.4	13056.1	14594.4	12709.3
47.5°	10594.2	10696.0	11027.8	11710.2	12336.0	12773.4	12984.5	13150.4	13308.7	14952.5	13022.2
50°	11235.1	11254.0	11657.4	12275.7	12735.7	13259.7	13666.9	13723.4	13640.5	15367.2	13553.8
52.5°	11706.4	11766.7	12079.6	12682.9	13369.0	14013.7	14571.7	14632.1	14469.9	15521.8	13734.8
55°	10926.0	10892.0	11401.0	12204.1	13795.1	15137.3	15947.8	15993.1	15073.2	16000.6	14326.7
57.5°	8445.2	8607.3	9040.9	10009.8	12256.8	15634.9	17011.0	16848.9	15797.0	16241.9	14703.7
60°	6137.8	6100.1	6390.4	7038.9	9236.9	13474.6	16083.6	16249.5	15205.1	14639.6	12124.9
62.5°	4999.3	4946.5	4969.1	4991.7	5960.6	8942.9	11906.2	11902.4	11710.2	10522.6	8177.5
65°	3996.4	4120.8	4132.1	4301.8	4426.2	5342.3	6899.4	7268.9	6330.1	5191.5	3766.4
67.5°	3012.4	2967.1	3117.9	3721.2	3954.9	3856.9	3766.4	3807.9	2707.0	1953.0	1839.8
70°	1775.8	1756.9	1937.9	2593.9	3257.4	3065.2	2838.9	2842.7	1858.7	1364.8	1519.4
72.5°	972.7	968.9	1006.6	1315.8	1851.2	1922.8	1704.1	1756.9	1108.4	1104.7	1187.6
75°	542.9	531.6	520.3	580.6	667.3	705.0	720.1	727.6	761.6	852.1	886.0
77.5°	199.8	192.3	192.3	222.4	282.8	354.4	448.7	456.2	539.1	618.3	652.2
80°	67.9	75.4	101.8	139.5	188.5	252.6	305.4	312.9	380.8	433.6	444.9
82.5°	41.5	45.2	67.9	98.0	135.7	177.2	226.2	230.0	282.8	316.7	331.8
85°	18.9	22.6	37.7	60.3	86.7	116.9	120.6	120.6	116.9	120.6	113.1
87.5°	0.0	0.0	7.5	7.5	7.5	11.3	15.1	11.3	18.9	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533538

CATALOG NUMBER: GALN-SA9A-727-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0	11401.0
2.5°	11299.2	11257.7	11129.6	11016.5	10982.5	10831.7	10609.3	10635.7	10473.5	10549.0	10469.8
5°	11144.6	11005.1	10677.1	10537.6	10171.9	10006.0	9892.9	9610.2	9478.2	9451.8	9338.7
7.5°	10748.8	10662.1	10251.1	9874.1	9485.8	9154.0	8728.0	8437.7	8230.3	8173.7	8007.9
10°	10435.8	10243.6	9674.3	9101.2	8547.0	7970.2	7415.9	6982.4	6771.2	6526.2	6443.2
12.5°	10126.7	9836.4	9067.3	8332.1	7615.8	6888.1	6217.0	5689.2	5229.2	5119.9	5082.2
15°	9934.4	9429.2	8524.4	7638.4	6620.4	5670.3	4999.3	4652.4	4369.6	4252.8	4335.7
17.5°	9681.8	9093.7	8004.1	6824.0	5704.3	4829.6	4267.8	4052.9	3951.1	3962.5	3928.5
20°	9365.1	8777.0	7321.7	6085.1	4886.1	4188.7	3868.2	3789.0	3804.1	3830.5	3819.2
22.5°	9138.9	8392.4	6827.8	5331.0	4222.6	3834.3	3702.3	3645.8	3694.8	3717.4	3698.5
25°	8965.5	8064.4	6228.3	4663.7	3838.0	3634.4	3574.1	3570.4	3645.8	3675.9	3657.1
27.5°	8807.1	7759.0	5632.6	4154.7	3581.7	3479.9	3461.0	3506.3	3555.3	3585.4	3611.8
30°	8712.9	7525.3	5074.7	3728.7	3453.5	3404.5	3370.5	3412.0	3438.4	3468.6	3453.5
32.5°	8803.4	7359.4	4535.5	3487.4	3347.9	3298.9	3344.1	3317.8	3363.0	3389.4	3347.9
35°	9086.1	7212.3	4151.0	3359.2	3227.3	3246.1	3253.7	3242.4	3261.2	3238.6	3287.6
37.5°	9365.1	7159.6	3796.6	3249.9	3170.7	3170.7	3163.2	3140.6	3178.3	3170.7	3193.3
40°	9719.5	7193.5	3495.0	3133.0	3117.9	3110.4	3080.2	3076.5	3061.4	3065.2	3072.7
42.5°	10028.7	7268.9	3321.5	3057.6	3068.9	3084.0	3027.5	2982.2	3001.1	2963.4	2963.4
45°	10356.7	7336.8	3166.9	3004.8	2993.5	2989.7	2944.5	2918.1	2903.0	2906.8	2940.7
47.5°	10873.2	7434.8	3050.1	2933.2	2940.7	2884.2	2872.9	2838.9	2854.0	2876.6	2880.4
50°	11238.9	7642.1	2959.6	2850.3	2876.6	2838.9	2771.1	2756.0	2756.0	2793.7	2786.2
52.5°	11495.3	7932.5	2872.9	2759.8	2771.1	2740.9	2718.3	2684.4	2661.7	2714.5	2740.9
55°	12279.5	8415.0	2850.3	2684.4	2680.6	2650.4	2609.0	2575.0	2563.7	2571.3	2624.0
57.5°	12204.1	8264.2	2778.6	2552.4	2544.9	2503.4	2461.9	2450.6	2446.8	2454.4	2469.5
60°	9908.0	6103.9	2480.8	2401.6	2390.3	2382.8	2341.3	2296.0	2273.4	2296.0	2277.2
62.5°	6556.3	4086.9	2186.7	2220.6	2228.2	2209.3	2141.5	2096.2	2103.8	2130.1	2088.7
65°	3219.7	2401.6	1983.1	2073.6	2081.1	2028.4	1964.3	1911.5	1885.1	1907.7	1888.9
67.5°	1839.8	1836.1	1817.2	1911.5	1907.7	1854.9	1753.1	1707.9	1662.6	1670.2	1658.9
70°	1560.9	1591.0	1628.7	1685.3	1681.5	1621.2	1500.5	1466.6	1402.5	1395.0	1376.1
72.5°	1229.1	1281.9	1364.8	1406.3	1372.3	1296.9	1217.8	1161.2	1104.7	1070.7	1082.0
75°	912.4	987.8	1033.0	1059.4	1006.6	965.2	901.1	833.2	765.3	735.2	723.9
77.5°	663.6	686.2	727.6	746.5	712.6	671.1	633.4	565.5	501.4	460.0	448.7
80°	463.7	478.8	509.0	509.0	509.0	490.1	441.1	373.2	331.8	294.1	286.5
82.5°	324.2	339.3	369.5	354.4	350.6	328.0	297.8	245.1	199.8	173.4	165.9
85°	113.1	124.4	150.8	181.0	192.3	188.5	169.7	135.7	105.6	86.7	79.2
87.5°	26.4	26.4	30.2	26.4	26.4	30.2	26.4	26.4	26.4	18.9	15.1
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)