

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: P458015

Luminaire Tested: **GALN-SA9B-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38806 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

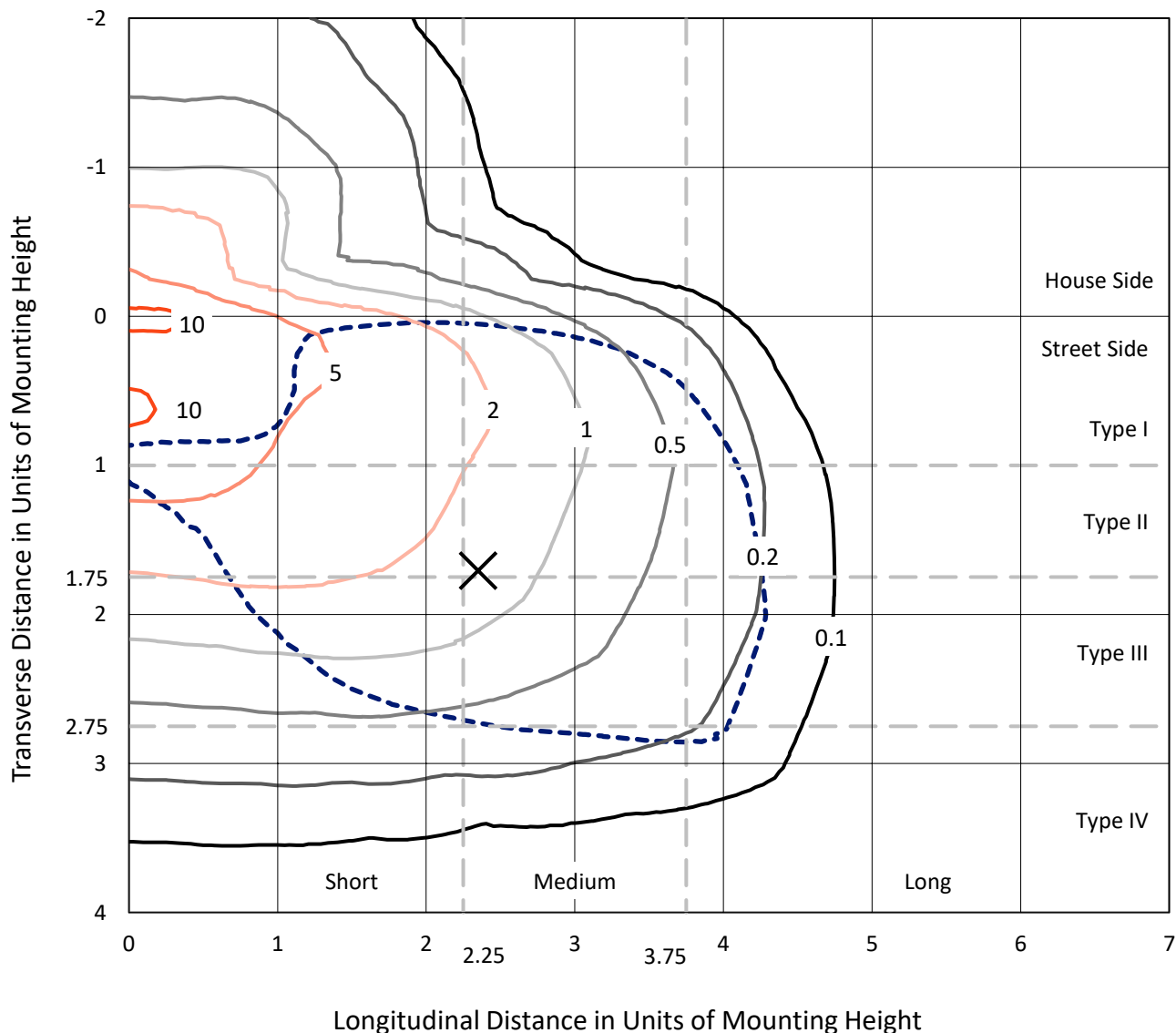
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

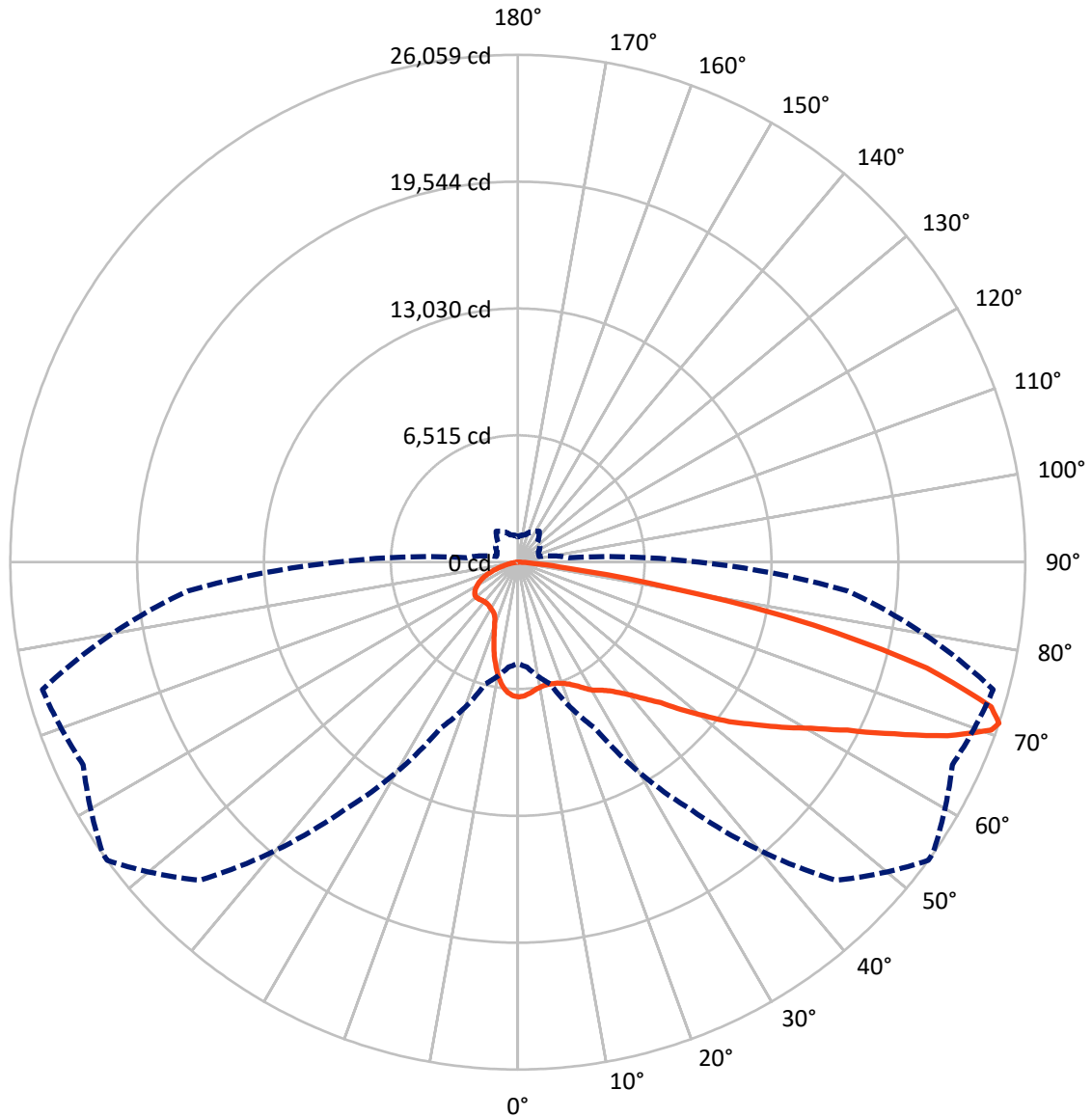
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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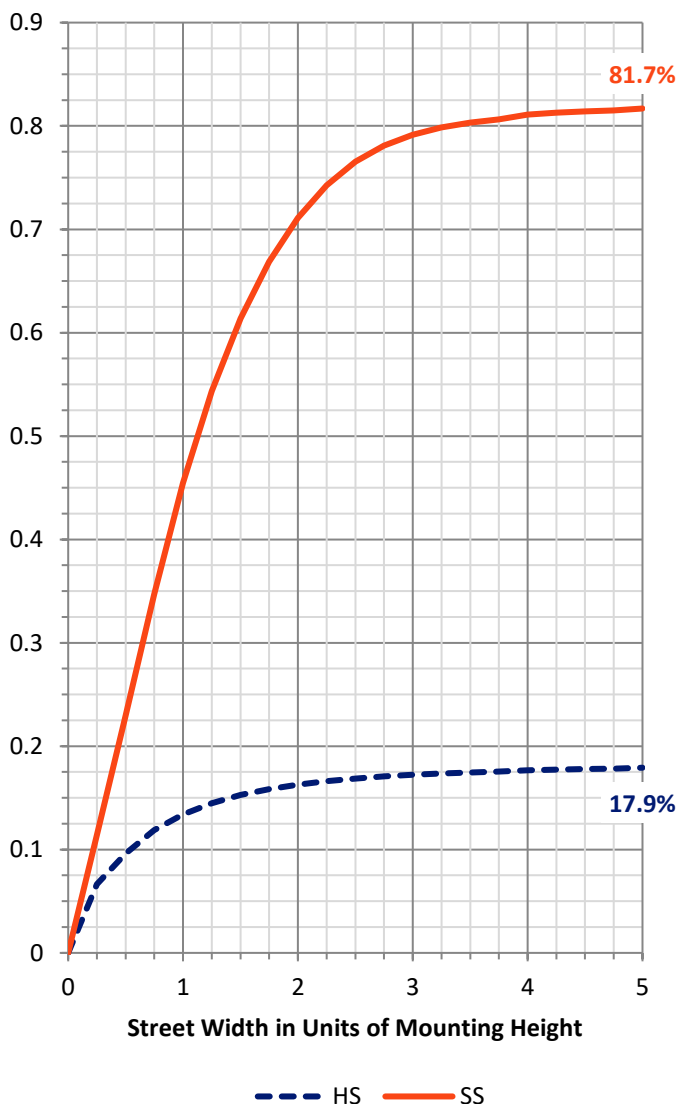
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7006.2	0.0	7006.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31799.8	0.0	31799.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	38806.0	0.0	38806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.0	1.6
10°-20°	1629.2	4.2
20°-30°	2712.6	7.0
30°-40°	4011.1	10.3
40°-50°	5649.8	14.6
50°-60°	7565.3	19.5
60°-70°	9535.5	24.6
70°-80°	6512.7	16.8
80°-90°	572.8	1.5
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°	38806.0	100.0
0°-180°	38806.0	100.0

Coefficient of Utilization



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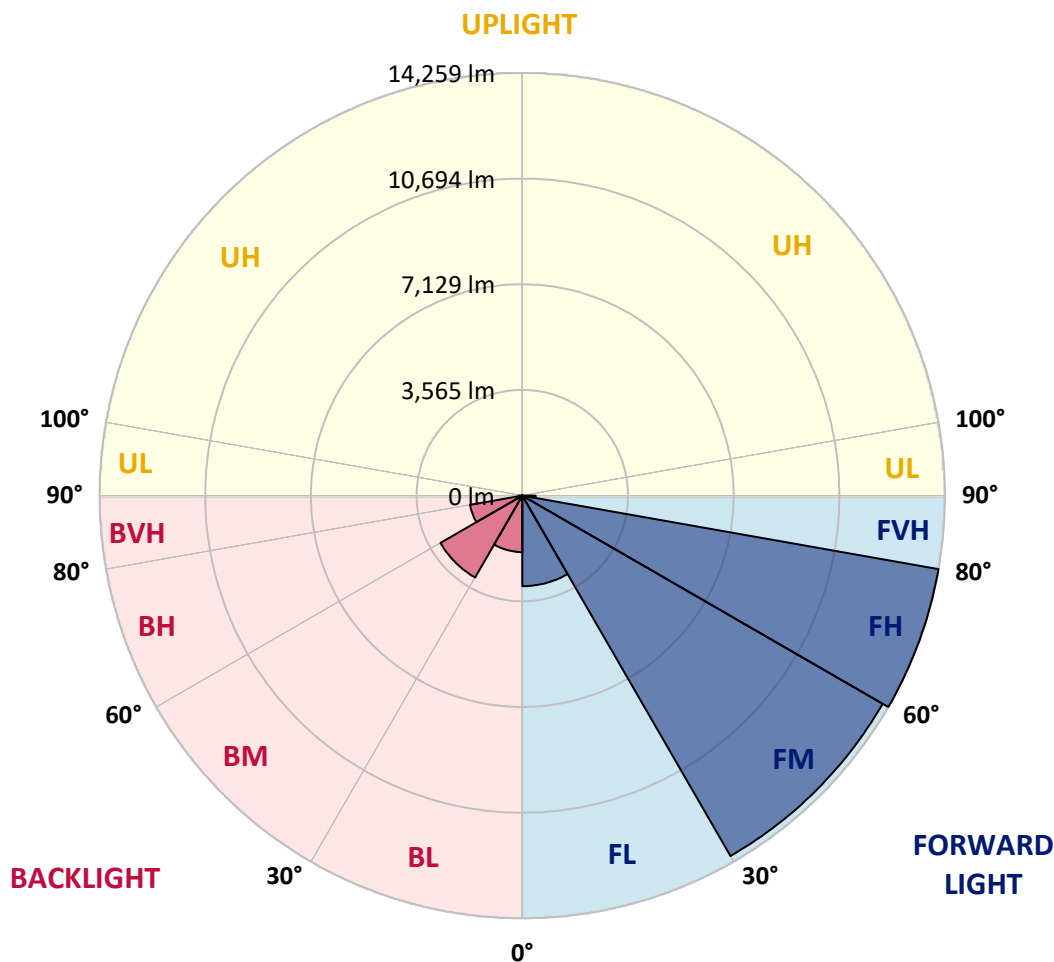
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3054.7	7.9			
FM	(30°-60°)	14038.6	36.2			
FH	(60°-80°)	14258.9	36.7			G5
FVH	(80°-90°)	447.7	1.2			G3/500
BL	(0°-30°)	1904.1	4.9	B3/2500		
BM	(30°-60°)	3187.6	8.2	B3/5000		
BH	(60°-80°)	1789.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	125.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6
2.5°	6688.8	6720.2	6728.6	6749.6	6793.6	6829.2	6864.9	6860.7	6911.0	6931.9	6950.8
5°	6391.1	6399.5	6431.0	6472.9	6550.5	6649.0	6745.4	6747.5	6871.2	6969.7	7017.9
7.5°	6173.1	6200.4	6221.4	6265.4	6347.1	6454.0	6607.0	6619.6	6839.7	7034.7	7137.4
10°	6030.6	6062.0	6085.1	6139.6	6221.4	6340.8	6506.4	6529.5	6816.7	7137.4	7317.6
12.5°	5900.6	5932.1	5953.1	6024.3	6131.2	6278.0	6464.5	6491.8	6825.0	7256.9	7514.7
15°	5980.3	6005.5	5997.1	6018.0	6089.3	6257.0	6481.3	6508.5	6856.5	7372.1	7709.6
17.5°	6334.5	6355.5	6286.3	6206.7	6173.1	6296.8	6533.7	6563.0	6919.4	7491.6	7908.8
20°	6856.5	6913.1	6762.2	6584.0	6422.6	6439.4	6642.7	6674.1	7007.4	7611.1	8112.1
22.5°	7535.6	7577.6	7393.1	7099.6	6802.0	6649.0	6806.2	6825.0	7139.5	7766.2	8334.3
25°	8334.3	8359.4	8103.7	7726.4	7296.7	7007.4	7030.5	7064.0	7357.5	7942.3	8531.3
27.5°	9109.8	9189.5	8893.9	8432.8	7866.8	7384.7	7338.6	7359.6	7594.3	8040.8	8667.6
30°	10030.1	10023.8	9711.4	9176.9	8451.7	7795.6	7630.0	7625.8	7722.2	8089.0	8766.1
32.5°	10763.7	10849.6	10543.6	9960.9	9120.3	8221.1	7831.2	7822.8	7820.7	8172.9	8912.8
35°	11598.0	11610.5	11329.7	10742.7	9843.5	8755.6	8112.1	8070.2	8021.9	8353.1	9111.9
37.5°	12344.2	12402.9	12145.1	11486.9	10554.1	9311.1	8497.8	8470.5	8323.8	8665.5	9430.6
40°	12926.9	12970.9	12815.8	12189.1	11254.2	9910.6	8988.3	8938.0	8759.8	9176.9	9856.1
42.5°	13117.7	13207.8	13268.6	12960.5	12059.1	10621.2	9592.0	9529.1	9392.8	9952.5	10346.6
45°	13132.3	13274.9	13595.6	13610.3	12868.2	11472.2	10296.3	10252.2	10241.8	10946.1	11036.2
47.5°	13021.2	13165.9	13704.6	13996.0	13589.3	12331.6	11312.9	11243.7	11250.0	12174.4	11809.7
50°	12752.9	12924.8	13578.8	14243.3	14153.2	13224.6	12386.1	12363.1	12493.0	13576.7	12612.5
52.5°	12247.8	12455.3	13448.9	14398.4	14572.4	13993.9	13606.1	13541.1	13870.2	15098.5	13490.8
55°	10849.6	11162.0	12973.0	14484.4	14970.7	14729.6	14704.5	14821.8	15257.8	16758.7	14457.1
57.5°	10120.2	10355.0	11939.6	14499.0	15473.7	15584.8	15987.3	16016.6	16779.6	18521.5	15549.2
60°	9721.9	9929.4	11373.7	14402.6	16175.9	16643.4	17299.5	17404.3	18265.8	20431.1	16681.1
62.5°	9374.0	9552.1	11034.1	14069.3	16968.3	18213.4	18999.5	19049.8	19953.2	22539.8	17798.4
65°	8554.4	8757.7	10350.8	13736.0	17651.6	20175.4	21254.9	21196.2	21749.6	24359.3	18498.5
67.5°	7449.7	7707.5	9074.2	12585.3	17989.1	22319.7	23795.4	23722.1	23522.9	25552.0	18699.7
70°	6039.0	6177.3	7441.3	10596.0	16641.3	23445.4	25801.4	25723.9	24621.3	25709.2	17748.1
71°	5196.3	5412.2	6479.2	9411.7	15519.9	23101.6	26059.3	26038.3	24623.4	25275.3	17031.2
72.5°	4056.0	4188.1	5131.4	7292.5	13191.0	21148.0	25422.0	25501.7	24088.9	24070.0	15553.4
75°	2565.7	2624.4	3219.7	4292.9	7238.0	14977.0	21701.4	21917.3	21389.1	19701.7	11566.5
77.5°	1490.4	1565.8	1928.5	2530.0	3127.4	8128.8	15528.2	15763.0	14861.7	10847.5	4735.2
80°	867.8	951.6	1270.3	1469.4	1435.9	3016.4	7906.7	8307.0	6435.2	2739.7	1329.0
82.5°	482.1	538.7	893.0	895.1	765.1	985.2	2488.1	2603.4	1836.2	1104.7	542.9
85°	350.1	396.2	576.4	521.9	366.8	423.4	865.7	907.6	742.0	465.3	176.1
87.5°	123.7	176.1	316.5	251.5	100.6	88.0	249.4	203.3	188.7	130.0	39.8
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°	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6	6923.6
2.5°	6961.3	6965.5	6944.5	6906.8	6869.1	6820.9	6766.4	6724.4	6705.6	6703.5	6701.4
5°	7036.8	7047.2	6967.6	6850.2	6720.2	6560.9	6424.7	6269.6	6229.7	6166.9	6185.7
7.5°	7158.3	7152.0	6994.8	6745.4	6441.5	6104.0	5818.9	5653.3	5481.4	5433.2	5435.3
10°	7332.3	7292.5	6994.8	6531.6	6024.3	5523.3	5125.1	4873.5	4737.3	4624.1	4582.2
12.5°	7516.8	7416.2	6927.8	6231.8	5487.7	4873.5	4445.9	4106.3	4018.3	3926.1	3928.2
15°	7692.8	7525.2	6795.7	5810.5	4909.2	4179.7	3764.7	3561.3	3534.1	3544.6	3542.5
17.5°	7852.2	7602.7	6594.5	5341.0	4234.2	3584.4	3364.3	3379.0	3452.3	3504.8	3511.0
20°	8013.6	7648.8	6294.7	4712.1	3597.0	3223.9	3232.3	3347.5	3458.6	3529.9	3540.4
22.5°	8166.6	7669.8	5942.6	4104.3	3135.8	3070.9	3194.5	3318.2	3427.2	3496.4	3506.8
25°	8267.2	7621.6	5443.7	3469.1	2909.4	3016.4	3146.3	3251.1	3343.4	3414.6	3431.4
27.5°	8294.4	7466.5	4825.3	2955.6	2804.6	2963.9	3083.4	3161.0	3232.3	3299.3	3311.9
30°	8279.8	7238.0	4146.2	2653.7	2743.9	2903.2	2995.4	3052.0	3137.9	3190.3	3200.8
32.5°	8256.7	6971.8	3437.7	2492.3	2693.5	2846.6	2901.1	2951.4	2949.3	2928.3	2943.0
35°	8265.1	6653.2	2863.3	2395.9	2649.5	2804.6	2850.8	2787.9	2607.6	2599.2	2590.8
37.5°	8309.1	6338.7	2446.2	2328.8	2626.5	2798.4	2823.5	2534.2	2374.9	2301.6	2282.7
40°	8422.3	5971.9	2171.6	2278.5	2624.4	2846.6	2699.8	2406.4	2100.3	1957.8	1947.3
42.5°	8573.2	5611.4	2003.9	2247.1	2649.5	2919.9	2649.5	2226.1	1892.8	1809.0	1796.4
45°	8797.5	5198.4	1911.7	2232.4	2687.3	2947.2	2632.8	2094.0	1809.0	1741.9	1741.9
47.5°	9051.2	4804.4	1861.4	2221.9	2735.5	2928.3	2483.9	2052.1	1769.1	1777.5	1817.4
50°	9302.7	4462.7	1823.6	2198.9	2777.4	2917.8	2423.1	2050.0	1779.6	1886.5	1957.8
52.5°	9594.1	4221.6	1777.5	2161.1	2777.4	2850.8	2404.3	2092.0	1809.0	1840.4	1871.9
55°	9946.2	4146.2	1718.8	2079.4	2727.1	2683.1	2393.8	2152.7	1829.9	1756.6	1769.1
57.5°	10411.5	4267.8	1662.2	1976.7	2611.8	2509.1	2389.6	2169.5	1781.7	1720.9	1708.4
60°	10952.4	4508.8	1645.5	1871.9	2454.6	2360.3	2364.5	2121.3	1714.6	1651.8	1662.2
62.5°	11331.8	4653.4	1635.0	1792.2	2282.7	2196.8	2303.7	2062.6	1685.3	1630.8	1641.3
65°	11331.8	4477.4	1538.6	1670.6	2060.5	1999.7	2230.3	1989.2	1647.6	1584.7	1574.2
67.5°	10902.0	3963.8	1391.8	1488.3	1815.3	1775.4	2127.6	1901.2	1591.0	1542.8	1517.6
70°	9782.7	3005.9	1207.4	1274.5	1505.0	1540.7	1995.5	1781.7	1496.6	1438.0	1400.2
71°	9290.1	2618.1	1129.8	1165.5	1385.6	1438.0	1932.6	1731.4	1454.7	1370.9	1303.8
72.5°	8340.6	2205.1	1012.4	1027.1	1184.3	1278.6	1800.6	1635.0	1375.1	1255.6	1180.1
75°	6336.6	1609.8	815.4	807.0	876.2	1014.5	1523.9	1456.8	1205.3	1043.9	999.9
77.5°	2737.6	876.2	610.0	616.3	595.3	769.3	1199.0	1251.4	1033.4	848.9	809.1
80°	830.1	505.2	417.1	425.5	398.3	515.7	844.7	981.0	830.1	660.3	605.8
82.5°	425.5	301.8	285.1	280.9	253.6	291.4	511.5	670.8	593.2	412.9	364.7
85°	184.5	161.4	140.4	136.2	119.5	104.8	182.4	335.4	314.4	230.6	220.1
87.5°	46.1	41.9	27.2	25.2	14.7	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)