

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: P456942

Luminaire Tested: **GALN-SA8B-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456942
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-SA8B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 39324 lumens
Efficiency: N/A
Efficacy: 121.0 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

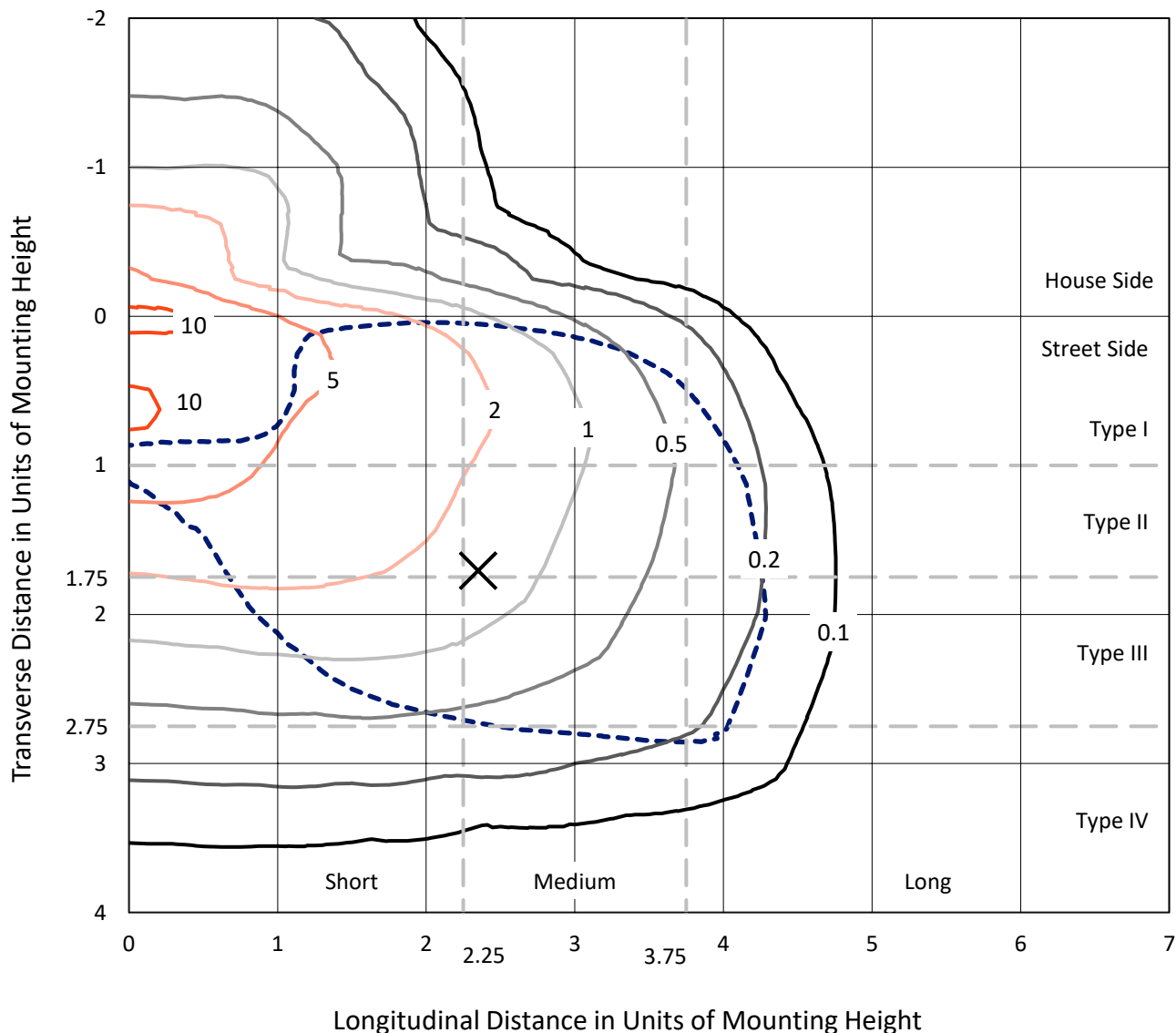
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

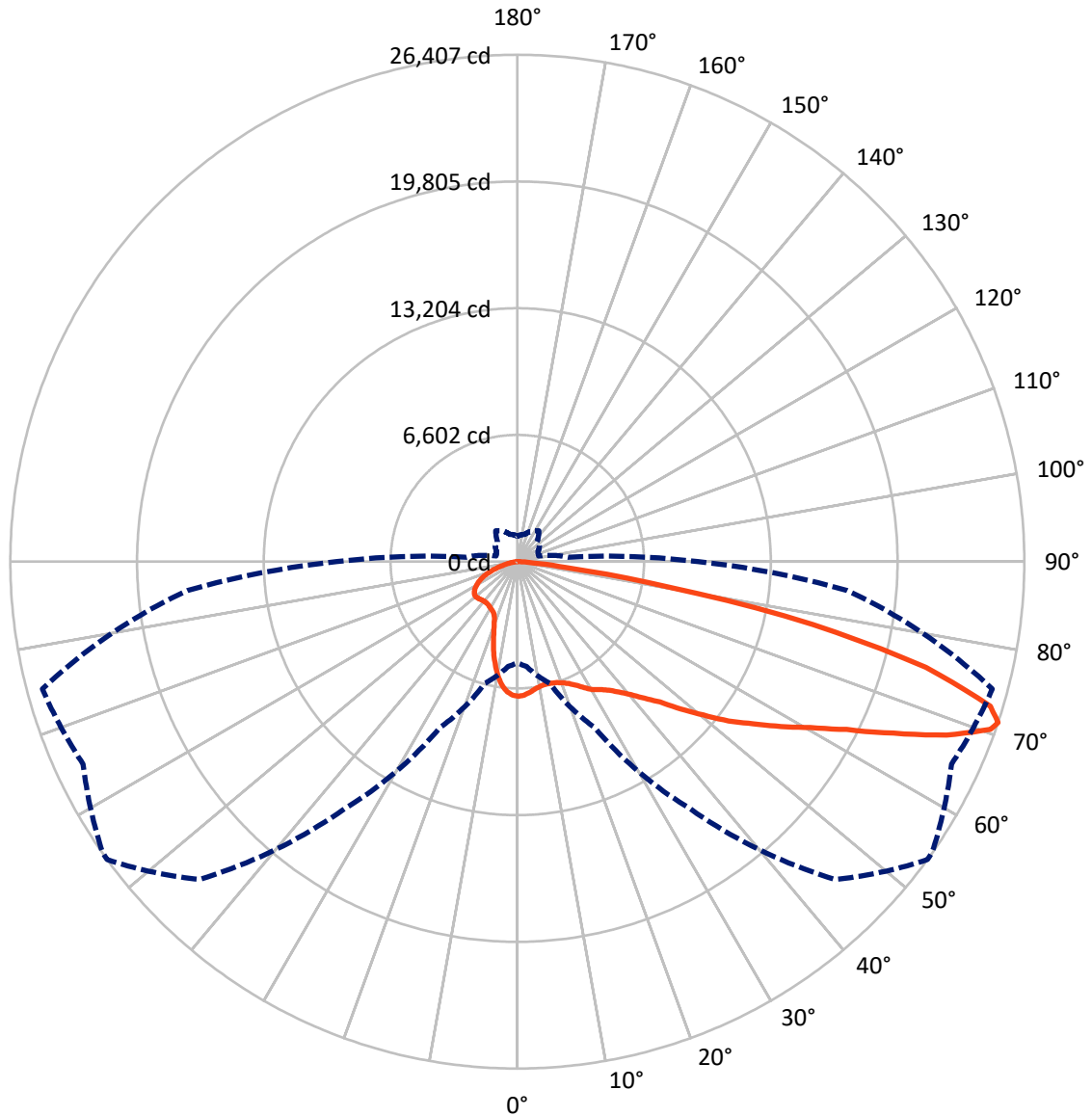
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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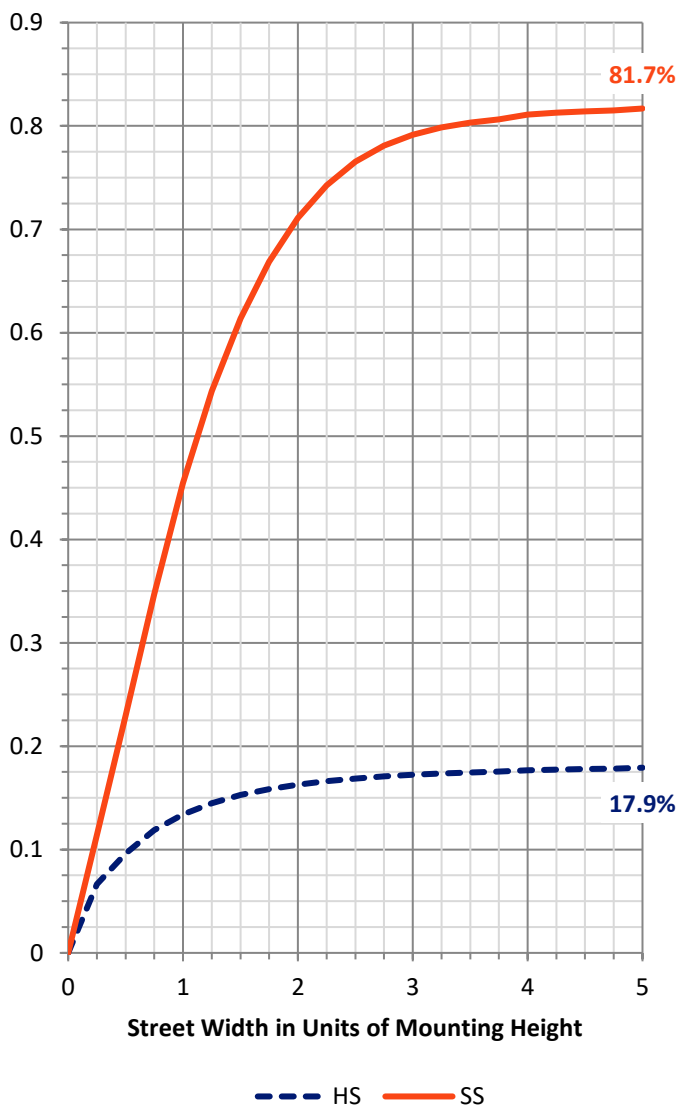
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7099.7	0.0	7099.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32224.3	0.0	32224.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	39324.0	0.0	39324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.2	1.6
10°-20°	1650.9	4.2
20°-30°	2748.9	7.0
30°-40°	4064.7	10.3
40°-50°	5725.2	14.6
50°-60°	7666.3	19.5
60°-70°	9662.8	24.6
70°-80°	6599.7	16.8
80°-90°	580.4	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°	39324.0	100.0
0°-180°	39324.0	100.0

Coefficient of Utilization



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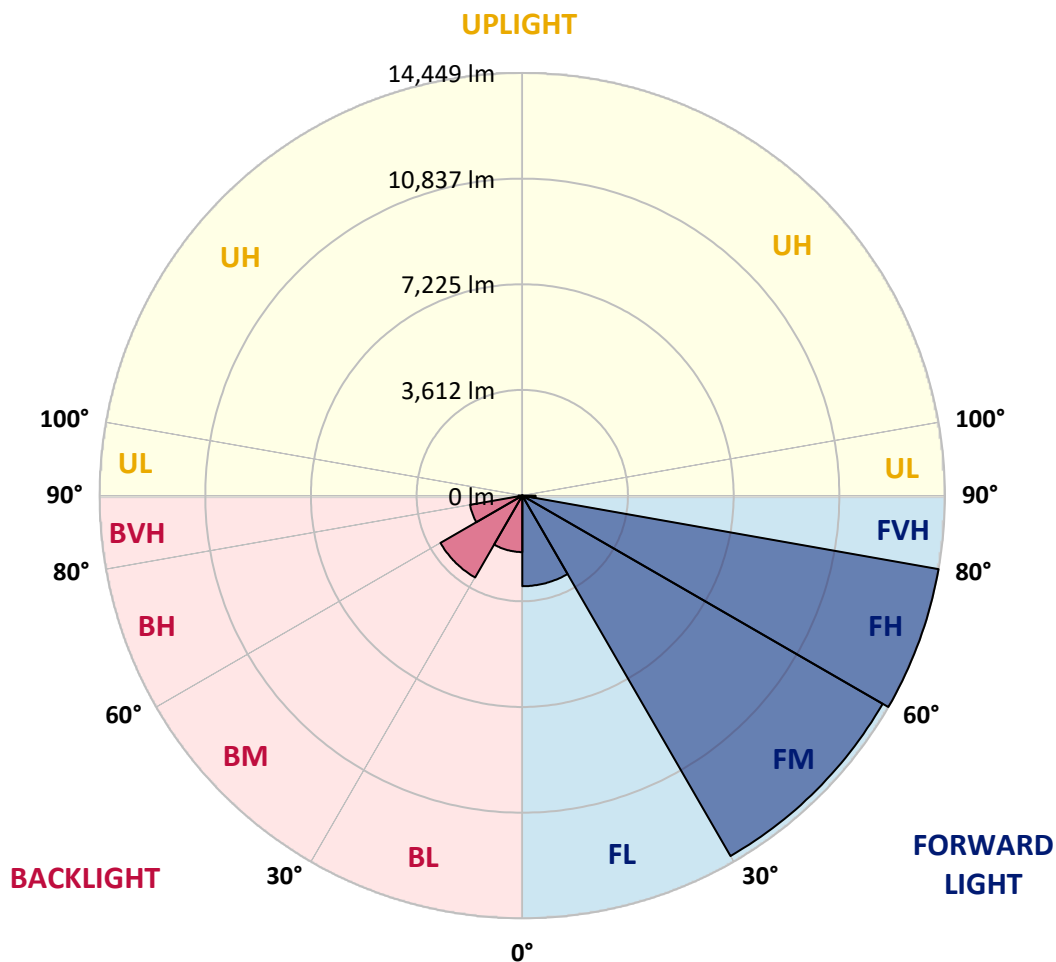
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3095.4	7.9			
FM	(30°-60°)	14226.0	36.2			
FH	(60°-80°)	14449.2	36.7			G5
FVH	(80°-90°)	453.7	1.2			G3/500
BL	(0°-30°)	1929.6	4.9	B3/2500		
BM	(30°-60°)	3230.2	8.2	B3/5000		
BH	(60°-80°)	1813.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	126.7	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°	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0
2.5°	6778.1	6809.9	6818.4	6839.7	6884.3	6920.4	6956.5	6952.3	7003.2	7024.5	7043.6
5°	6476.5	6485.0	6516.8	6559.3	6637.9	6737.7	6835.4	6837.6	6962.9	7062.7	7111.6
7.5°	6255.5	6283.2	6304.4	6349.0	6431.8	6540.2	6695.2	6708.0	6931.0	7128.6	7232.6
10°	6111.1	6143.0	6166.3	6221.6	6304.4	6425.5	6593.3	6616.6	6907.7	7232.6	7415.3
12.5°	5979.4	6011.3	6032.5	6104.7	6213.1	6361.8	6550.8	6578.4	6916.2	7353.7	7615.0
15°	6060.1	6085.6	6077.1	6098.4	6170.6	6340.5	6567.8	6595.4	6948.0	7470.5	7812.5
17.5°	6419.1	6440.3	6370.2	6289.5	6255.5	6380.9	6620.9	6650.6	7011.7	7591.6	8014.3
20°	6948.0	7005.4	6852.4	6671.9	6508.3	6525.3	6731.4	6763.2	7100.9	7712.7	8220.4
22.5°	7636.2	7678.7	7491.8	7194.4	6892.8	6737.7	6897.0	6916.2	7234.8	7869.9	8445.5
25°	8445.5	8471.0	8211.9	7829.5	7394.1	7100.9	7124.3	7158.3	7455.7	8048.3	8645.2
27.5°	9231.4	9312.2	9012.7	8545.4	7971.8	7483.3	7436.6	7457.8	7695.7	8148.1	8783.3
30°	10163.9	10157.6	9841.1	9299.4	8564.5	7899.6	7731.8	7727.6	7825.3	8197.0	8883.1
32.5°	10907.4	10994.5	10684.3	10093.8	9242.1	8330.8	7935.7	7927.2	7925.1	8282.0	9031.8
35°	11752.8	11765.5	11480.9	10886.1	9974.9	8872.5	8220.4	8177.9	8129.0	8464.6	9233.6
37.5°	12509.0	12568.4	12307.2	11640.2	10695.0	9435.4	8611.2	8583.6	8434.9	8781.1	9556.4
40°	13099.5	13144.1	12986.9	12351.8	11404.4	10042.9	9108.2	9057.3	8876.7	9299.4	9987.6
42.5°	13292.8	13384.1	13445.7	13133.5	12220.1	10762.9	9720.0	9656.3	9518.2	10085.3	10484.7
45°	13307.6	13452.1	13777.1	13791.9	13040.0	11625.3	10433.7	10389.1	10378.5	11092.2	11183.5
47.5°	13195.1	13341.6	13887.5	14182.8	13770.7	12496.2	11463.9	11393.8	11400.2	12336.9	11967.3
50°	12923.2	13097.4	13760.1	14433.4	14342.1	13401.1	12551.5	12528.1	12659.8	13758.0	12780.9
52.5°	12411.3	12621.5	13628.4	14590.6	14766.9	14180.7	13787.7	13721.8	14055.3	15300.1	13670.9
55°	10994.5	11311.0	13146.2	14677.7	15170.5	14926.2	14900.7	15019.7	15461.5	16982.4	14650.1
57.5°	10255.3	10493.2	12099.0	14692.6	15680.3	15792.9	16200.7	16230.4	17003.6	18768.8	15756.8
60°	9851.7	10062.0	11525.5	14594.9	16391.9	16865.6	17530.4	17636.6	18509.6	20703.8	16903.8
62.5°	9499.1	9679.6	11181.4	14257.1	17194.8	18456.5	19253.1	19304.0	20219.5	22840.7	18035.9
65°	8668.6	8874.6	10488.9	13919.4	17887.3	20444.7	21538.6	21479.1	22039.9	24684.5	18745.4
67.5°	7549.1	7810.4	9195.3	12753.2	18229.2	22617.7	24113.1	24038.7	23836.9	25893.1	18949.3
70°	6119.6	6259.8	7540.6	10737.5	16863.4	23758.3	26145.9	26067.3	24950.0	26052.4	17985.0
71°	5265.7	5484.5	6565.7	9537.3	15727.0	23410.0	26407.1	26385.9	24952.1	25612.7	17258.5
72.5°	4110.2	4244.0	5199.9	7389.8	13367.1	21430.3	25761.4	25842.1	24410.4	24391.3	15761.0
75°	2599.9	2659.4	3262.7	4350.2	7334.6	15176.9	21991.1	22209.8	21674.6	19964.6	11720.9
77.5°	1510.3	1586.7	1954.2	2563.8	3169.2	8237.4	15735.5	15973.4	15060.0	10992.3	4798.4
80°	879.4	964.4	1287.2	1489.0	1455.0	3056.6	8012.2	8417.9	6521.1	2776.2	1346.7
82.5°	488.5	545.9	904.9	907.0	775.3	998.3	2521.3	2638.2	1860.7	1119.4	550.1
85°	354.7	401.5	584.1	528.9	371.7	429.1	877.3	919.7	751.9	471.6	178.4
87.5°	125.3	178.4	320.7	254.9	102.0	89.2	252.8	206.0	191.2	131.7	40.4
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°	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0
2.5°	7054.2	7058.5	7037.2	6999.0	6960.8	6911.9	6856.7	6814.2	6795.1	6793.0	6790.8
5°	7130.7	7141.3	7060.6	6941.6	6809.9	6648.5	6510.4	6353.3	6312.9	6249.2	6268.3
7.5°	7253.9	7247.5	7088.2	6835.4	6527.4	6185.5	5896.6	5728.8	5554.6	5505.7	5507.9
10°	7430.2	7389.8	7088.2	6618.8	6104.7	5597.1	5193.5	4938.6	4800.5	4685.8	4643.3
12.5°	7617.1	7515.2	7020.2	6315.0	5561.0	4938.6	4505.3	4161.2	4071.9	3978.5	3980.6
15°	7795.5	7625.6	6886.4	5888.1	4974.7	4235.5	3814.9	3608.9	3581.3	3591.9	3589.8
17.5°	7957.0	7704.2	6682.5	5412.3	4290.7	3632.3	3409.2	3424.1	3498.4	3551.5	3557.9
20°	8120.5	7750.9	6378.7	4775.0	3645.0	3266.9	3275.4	3392.2	3504.8	3577.0	3587.6
22.5°	8275.6	7772.2	6021.9	4159.0	3177.7	3111.8	3237.2	3362.5	3472.9	3543.0	3553.7
25°	8377.5	7723.3	5516.4	3515.4	2948.3	3056.6	3188.3	3294.5	3388.0	3460.2	3477.2
27.5°	8405.2	7566.1	4889.7	2995.0	2842.1	3003.5	3124.6	3203.2	3275.4	3343.4	3356.1
30°	8390.3	7334.6	4201.5	2689.1	2780.5	2941.9	3035.4	3092.7	3179.8	3232.9	3243.5
32.5°	8366.9	7064.8	3483.6	2525.6	2729.5	2884.6	2939.8	2990.8	2988.6	2967.4	2982.3
35°	8375.4	6742.0	2901.6	2427.9	2684.9	2842.1	2888.8	2825.1	2642.4	2633.9	2625.4
37.5°	8420.0	6423.4	2478.9	2359.9	2661.5	2835.7	2861.2	2568.1	2406.6	2332.3	2313.2
40°	8534.7	6051.6	2200.6	2308.9	2659.4	2884.6	2735.9	2438.5	2128.4	1983.9	1973.3
42.5°	8687.7	5686.3	2030.7	2277.1	2684.9	2958.9	2684.9	2255.8	1918.1	1833.1	1820.4
45°	8915.0	5267.8	1937.2	2262.2	2723.1	2986.5	2667.9	2122.0	1833.1	1765.1	1765.1
47.5°	9172.0	4868.5	1886.2	2251.6	2772.0	2967.4	2517.1	2079.5	1792.8	1801.3	1841.6
50°	9426.9	4522.3	1848.0	2228.2	2814.5	2956.8	2455.5	2077.4	1803.4	1911.7	1983.9
52.5°	9722.1	4278.0	1801.3	2190.0	2814.5	2888.8	2436.4	2119.9	1833.1	1865.0	1896.8
55°	10079.0	4201.5	1741.8	2107.1	2763.5	2718.9	2425.8	2181.5	1854.4	1780.0	1792.8
57.5°	10550.5	4324.7	1684.4	2003.0	2646.7	2542.6	2421.5	2198.5	1805.5	1743.9	1731.2
60°	11098.6	4569.0	1667.4	1896.8	2487.4	2391.8	2396.0	2149.6	1737.5	1673.8	1684.4
62.5°	11483.0	4715.6	1656.8	1816.1	2313.2	2226.1	2334.4	2090.1	1707.8	1652.6	1663.2
65°	11483.0	4537.1	1559.1	1692.9	2088.0	2026.4	2260.1	2015.8	1669.6	1605.8	1595.2
67.5°	11047.6	4016.7	1410.4	1508.1	1839.5	1799.1	2156.0	1926.6	1612.2	1563.4	1537.9
70°	9913.3	3046.0	1223.5	1291.5	1525.1	1561.2	2022.2	1805.5	1516.6	1457.1	1418.9
71°	9414.1	2653.0	1144.9	1181.0	1404.0	1457.1	1958.4	1754.5	1474.1	1389.2	1321.2
72.5°	8451.9	2234.6	1026.0	1040.8	1200.1	1295.7	1824.6	1656.8	1393.4	1272.4	1195.9
75°	6421.2	1631.3	826.3	817.8	887.9	1028.1	1544.2	1476.3	1221.4	1057.8	1013.2
77.5°	2774.1	887.9	618.1	624.5	603.3	779.6	1215.0	1268.1	1047.2	860.3	819.9
80°	841.2	511.9	422.7	431.2	403.6	522.5	856.0	994.1	841.2	669.1	613.9
82.5°	431.2	305.9	288.9	284.6	257.0	295.3	518.3	679.7	601.1	418.5	369.6
85°	186.9	163.6	142.3	138.1	121.1	106.2	184.8	339.9	318.6	233.7	223.0
87.5°	46.7	42.5	27.6	25.5	14.9	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)