

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: P647635

Luminaire Tested: **GALN-SA8D-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48804.4 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

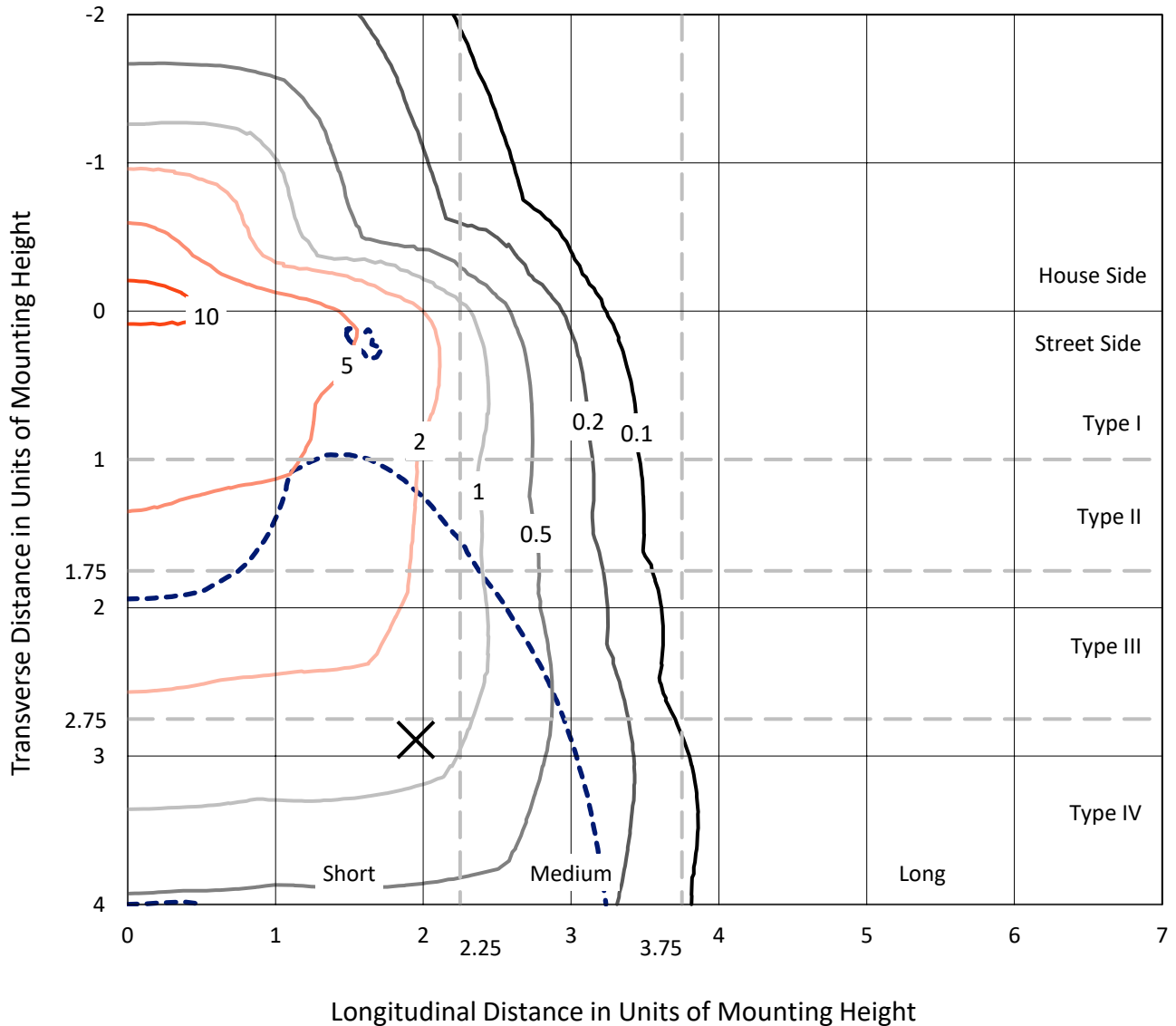
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647635
 CATALOG NUMBER: GALN-SA8D-835-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

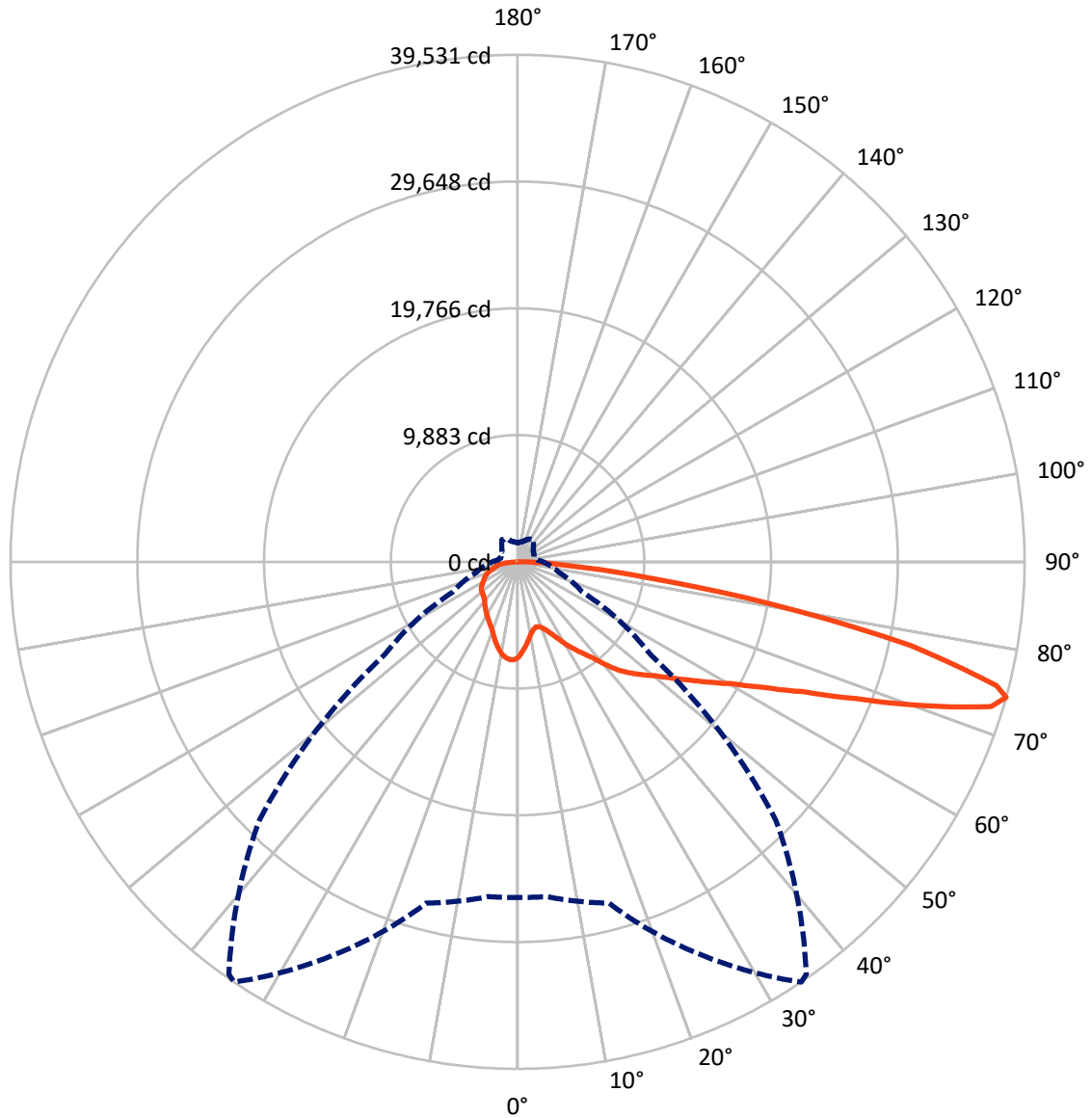
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P647635
CATALOG NUMBER: GALN-SA8D-835-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P647635
 CATALOG NUMBER: GALN-SA8D-835-U-T4FT

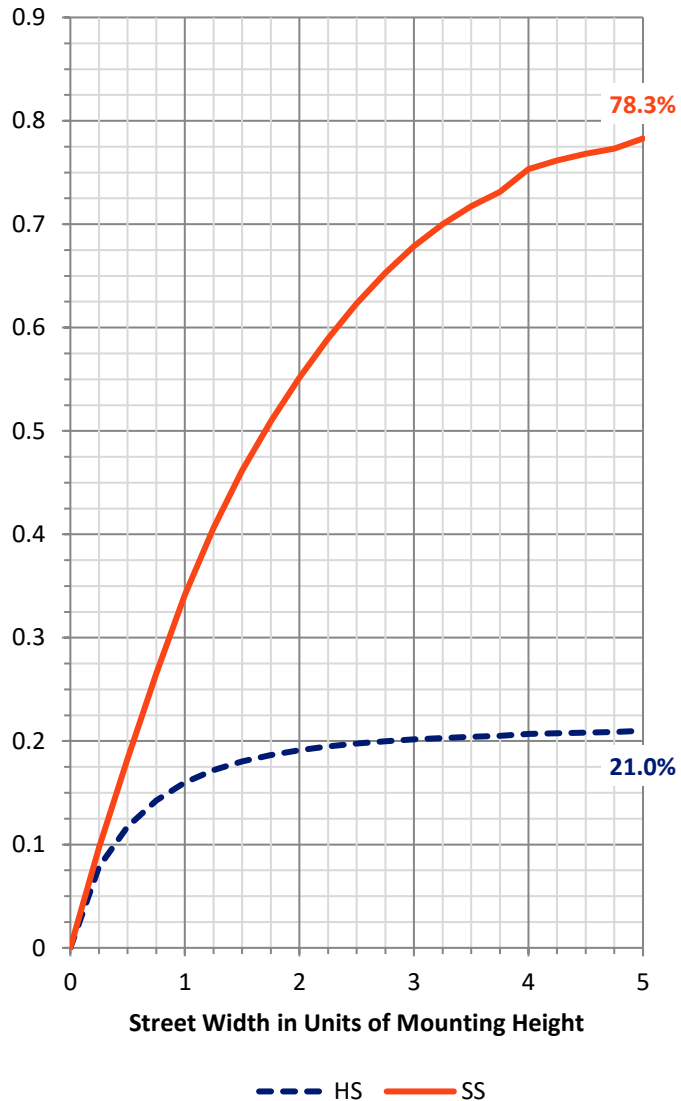
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10385.9	0.0	10385.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	38418.5	0.0	38418.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	48804.4	0.0	48804.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.7	1.4
10°-20°	1855.1	3.8
20°-30°	3058.6	6.3
30°-40°	4581.4	9.4
40°-50°	6660.2	13.6
50°-60°	9302.7	19.1
60°-70°	11646.4	23.9
70°-80°	9630.7	19.7
80°-90°	1391.6	2.9
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°	48804.4	100.0
0°-180°	48804.4	100.0

Coefficient of Utilization

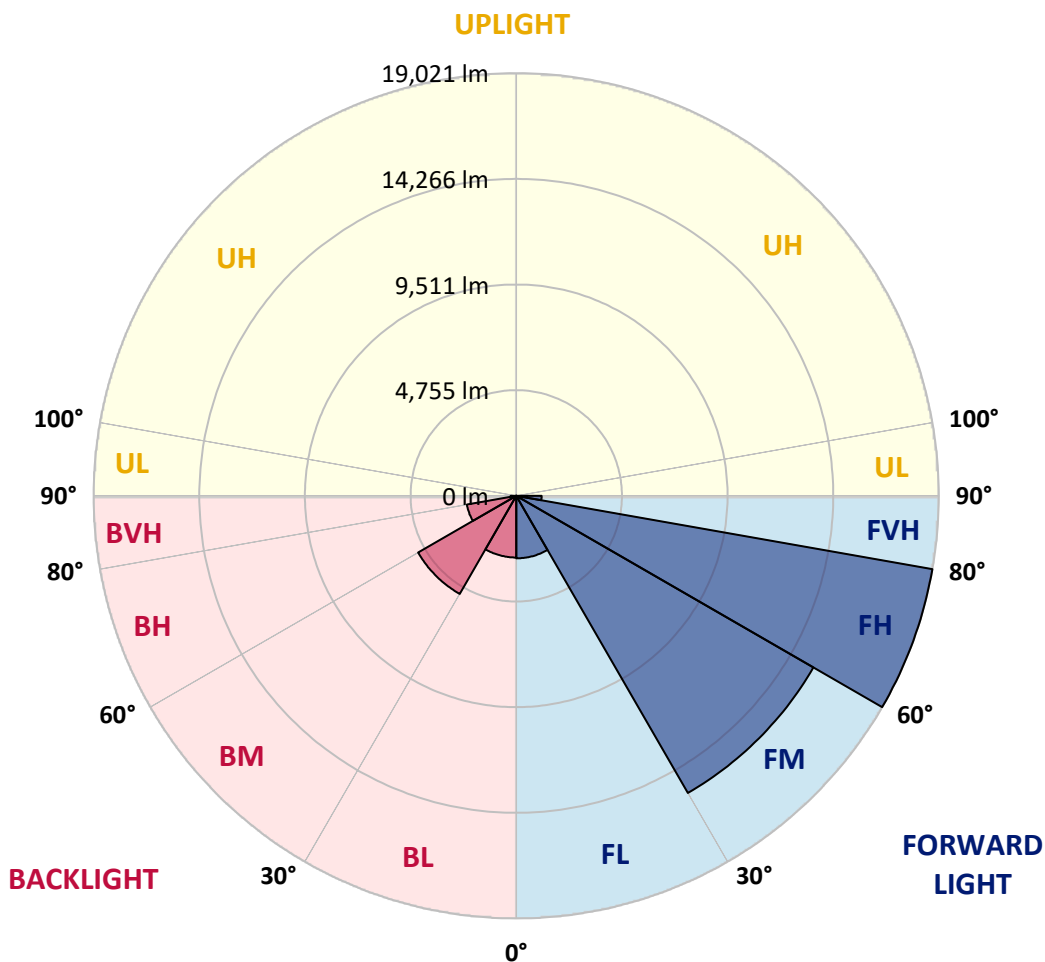


REPORT NUMBER: P647635
 CATALOG NUMBER: GALN-SA8D-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2813.3	5.8			
FM (30°-60°)	15443.7	31.6			
FH (60°-80°)	19021.4	39.0			G5
FVH (80°-90°)	1140.0	2.3			G5
BL (0°-30°)	2778.1	5.7	B4/5000		
BM (30°-60°)	5100.6	10.5	B4/8500		
BH (60°-80°)	2255.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	251.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





REPORT NUMBER: P647635
 CATALOG NUMBER: GALN-SA8D-835-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5
2.5°	6886.4	6921.6	6940.4	7008.1	7024.3	7045.9	7102.7	7178.4	7275.7	7362.2	7438.0
5°	6313.2	6367.3	6399.7	6459.2	6575.5	6586.3	6737.7	6910.8	7108.1	7291.9	7443.4
7.5°	5769.8	5829.2	5856.3	5964.4	6118.5	6142.9	6364.5	6637.6	6967.5	7246.0	7478.5
10°	5361.5	5391.2	5450.7	5531.8	5715.7	5731.9	6021.2	6386.2	6813.4	7224.3	7538.0
12.5°	5139.8	5156.0	5169.5	5256.0	5437.2	5461.5	5764.4	6178.0	6691.8	7240.6	7635.3
15°	5172.3	5177.7	5118.2	5134.4	5280.4	5315.6	5615.6	6040.1	6616.0	7281.1	7781.3
17.5°	5445.3	5426.3	5280.4	5204.7	5307.4	5323.6	5585.9	5986.0	6580.9	7356.8	7932.7
20°	5875.2	5848.1	5596.7	5429.1	5488.6	5502.1	5683.2	6026.6	6616.0	7481.2	8167.9
22.5°	6410.5	6399.7	6018.5	5815.7	5813.0	5813.0	5907.7	6172.6	6721.4	7651.6	8414.0
25°	7159.4	7102.7	6605.2	6342.9	6270.0	6264.5	6253.7	6413.2	6856.7	7832.7	8706.0
27.5°	7927.3	7830.0	7386.6	6983.7	6826.9	6808.0	6737.7	6753.9	7029.7	8038.2	9038.6
30°	8616.8	8554.6	8138.2	7692.1	7505.5	7462.3	7267.6	7178.4	7319.0	8408.6	9568.5
32.5°	9144.0	9106.1	8781.7	8376.1	8100.4	8092.2	7808.4	7735.3	7770.5	8857.4	10174.1
35°	9571.2	9584.7	9419.8	9068.3	8752.0	8706.0	8516.8	8424.8	8322.0	9506.3	10936.6
37.5°	10155.2	10185.0	10174.1	9871.3	9484.6	9495.5	9452.2	9300.8	9027.8	10230.9	11782.8
40°	10798.7	10820.3	10817.6	10701.3	10498.5	10509.3	10493.1	10320.1	9911.8	11152.9	12723.8
42.5°	11688.2	11585.4	11317.8	11434.1	11553.0	11604.4	11715.2	11550.3	10990.7	12137.0	13607.8
45°	12683.2	12488.5	11882.9	11936.9	12377.7	12475.0	13086.0	12858.9	12161.3	13267.2	14648.8
47.5°	13310.5	13118.5	12607.5	12596.7	13180.6	13275.3	14356.8	14273.0	13226.6	14486.5	15919.6
50°	13870.1	13843.0	13267.2	13405.0	13975.5	14116.2	15741.1	15662.7	14289.2	15925.0	17303.8
52.5°	14700.1	14481.1	14021.5	14305.4	15059.8	15243.6	17114.6	16884.8	15265.2	17195.7	18647.6
55°	15073.3	15021.9	14994.8	15240.9	16276.5	16408.9	18450.2	17923.0	16098.0	18271.8	19669.6
57.5°	16070.9	15976.3	16244.0	16411.6	17709.4	17912.1	19845.4	19007.2	16828.0	19126.2	20167.1
60°	17363.3	17312.0	17558.0	17860.8	19310.0	19618.2	21435.1	19931.9	17414.7	19556.1	19894.0
62.5°	19293.7	19288.3	19242.4	19891.3	21578.5	21862.3	23260.1	20832.2	17506.6	19234.3	18482.6
65°	22062.4	21965.0	21564.9	22273.3	24401.1	24733.6	25160.8	21335.1	16952.3	17582.3	15562.7
67.5°	24958.0	24952.6	24628.2	25547.5	28454.0	28797.4	27537.4	21224.2	15413.9	14243.2	11052.8
70°	27359.0	27242.8	27656.4	30106.0	33631.7	34029.1	29616.6	19918.3	12277.6	9406.3	6567.3
72.5°	27934.9	27940.3	28800.1	33620.8	38603.8	38665.9	30365.5	16144.0	8216.6	5188.5	3285.0
74°	26161.2	26207.2	27540.1	33796.6	39531.2	39250.0	28451.3	12688.6	5556.2	3387.8	2368.5
75°	23879.3	23590.0	25517.7	32625.8	38568.6	38265.8	26209.9	10182.2	4239.5	2706.4	2073.8
77.5°	12767.0	13061.7	16035.8	24347.1	31333.5	30984.7	17771.6	4882.9	2290.0	1884.5	1492.5
80°	4544.9	5012.7	7045.9	12740.0	20088.6	20196.9	8481.6	2238.7	1611.4	1389.7	1054.5
82.5°	1854.8	1906.1	3025.4	5653.5	10201.2	10298.5	3463.4	1330.2	1151.8	957.1	630.0
85°	724.6	746.2	1338.4	2541.5	4353.0	4636.9	1197.8	703.0	708.4	548.9	321.7
87.5°	243.4	275.8	548.9	846.3	1478.9	1449.2	348.7	208.2	254.2	238.0	100.1
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: P647635
 CATALOG NUMBER: GALN-SA8D-835-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5
2.5°	7475.8	7527.1	7562.3	7600.2	7635.3	7646.2	7638.0	7662.4	7665.0	7667.8	7670.5
5°	7519.1	7589.4	7657.0	7694.8	7711.0	7697.5	7651.6	7627.2	7605.6	7589.4	7594.8
7.5°	7578.6	7678.6	7740.7	7757.0	7713.7	7651.6	7538.0	7448.8	7392.0	7354.1	7351.4
10°	7670.5	7767.8	7819.2	7773.2	7654.2	7502.9	7324.4	7156.8	7029.7	6991.8	6989.1
12.5°	7786.7	7897.6	7894.9	7759.7	7551.5	7281.1	6991.8	6797.1	6624.1	6537.6	6572.7
15°	7938.1	8021.9	7943.5	7700.2	7370.4	6999.9	6643.1	6378.1	6183.4	6091.5	6096.9
17.5°	8113.9	8186.9	7978.7	7594.8	7116.2	6640.3	6226.7	5975.2	5821.1	5753.6	5748.1
20°	8332.8	8354.5	7978.7	7410.9	6789.1	6221.2	5826.5	5650.8	5564.2	5529.2	5540.0
22.5°	8568.1	8524.8	7935.5	7151.4	6359.1	5783.2	5518.3	5439.9	5396.7	5391.2	5396.7
25°	8833.1	8711.4	7846.2	6799.9	5910.3	5404.7	5250.6	5264.2	5272.3	5272.3	5291.2
27.5°	9157.5	8914.1	7697.5	6356.5	5385.8	5053.2	5010.0	5104.6	5147.9	5156.0	5169.5
30°	9584.7	9135.9	7451.5	5802.2	4939.7	4736.9	4812.6	4939.7	4988.3	5018.1	5012.7
32.5°	10093.0	9379.2	7118.9	5247.9	4580.1	4515.2	4607.2	4736.9	4791.0	4807.2	4785.6
35°	10690.5	9655.0	6680.9	4728.9	4266.5	4304.3	4412.4	4453.0	4501.7	4501.7	4512.5
37.5°	11334.0	9876.7	6145.5	4252.9	4023.1	4161.0	4239.5	4201.6	4180.0	4153.0	4166.4
40°	11988.3	10041.7	5450.7	3782.5	3779.8	4012.3	4033.9	3925.8	3839.3	3812.3	3798.7
42.5°	12558.8	10144.4	4823.4	3417.5	3550.0	3866.3	3882.6	3709.5	3571.7	3490.5	3463.4
45°	13232.0	10263.3	4209.7	3114.7	3336.4	3750.1	3790.7	3558.1	3355.3	3185.0	3141.7
47.5°	14154.0	10533.7	3725.7	2879.5	3182.3	3677.0	3733.8	3433.8	3166.1	2944.4	2909.2
50°	15194.9	10904.1	3349.9	2720.0	3063.3	3612.2	3682.4	3306.7	2990.4	2744.3	2717.2
52.5°	16149.4	11104.2	3025.4	2576.6	2947.1	3493.2	3614.9	3214.8	2817.3	2544.2	2519.9
55°	16671.2	10779.7	2706.4	2436.1	2787.6	3339.1	3520.2	3087.7	2649.7	2438.7	2403.6
57.5°	16741.5	10109.2	2417.1	2284.6	2619.9	3149.9	3344.5	2933.5	2541.5	2365.8	2336.0
60°	16198.0	9108.9	2192.7	2160.3	2449.5	2936.2	3147.1	2798.4	2430.7	2284.6	2254.9
62.5°	14846.1	8021.9	2035.9	2046.7	2276.6	2711.8	3001.2	2668.5	2325.2	2195.5	2168.4
65°	12521.0	6621.4	1884.5	1930.5	2122.4	2536.1	2868.7	2560.4	2219.7	2127.8	2103.5
67.5°	8697.9	4780.2	1760.1	1808.8	1976.4	2357.6	2714.5	2444.1	2100.8	2052.2	2014.3
70°	4815.4	2941.7	1614.2	1670.9	1825.0	2157.6	2541.5	2268.4	1927.7	1906.1	1852.0
72.5°	2530.7	1873.7	1449.2	1511.3	1619.6	1900.7	2276.6	2076.4	1757.4	1665.5	1595.2
74°	1976.4	1535.7	1338.4	1403.2	1476.3	1749.3	2119.7	1938.6	1635.8	1527.6	1473.5
75°	1722.3	1368.1	1243.7	1327.5	1392.4	1646.6	1998.1	1841.2	1568.2	1465.4	1416.8
77.5°	1216.7	1024.7	1016.6	1116.6	1151.8	1443.8	1800.7	1676.3	1397.8	1289.7	1243.7
80°	854.4	767.9	805.7	867.9	916.6	1276.1	1670.9	1449.2	1146.4	1019.3	1003.1
82.5°	556.9	502.9	575.9	632.7	648.9	940.9	1349.2	1100.4	835.5	678.6	630.0
85°	256.8	251.4	329.9	321.7	319.1	459.6	800.3	643.5	481.2	359.6	337.9
87.5°	64.9	62.2	81.1	67.6	81.1	70.3	73.0	18.9	2.7	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)