

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: P647577

Luminaire Tested: **GALN-SA7D-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647577
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-SA7D-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43173.8 lumens
Efficiency: N/A
Efficacy: 99.7 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

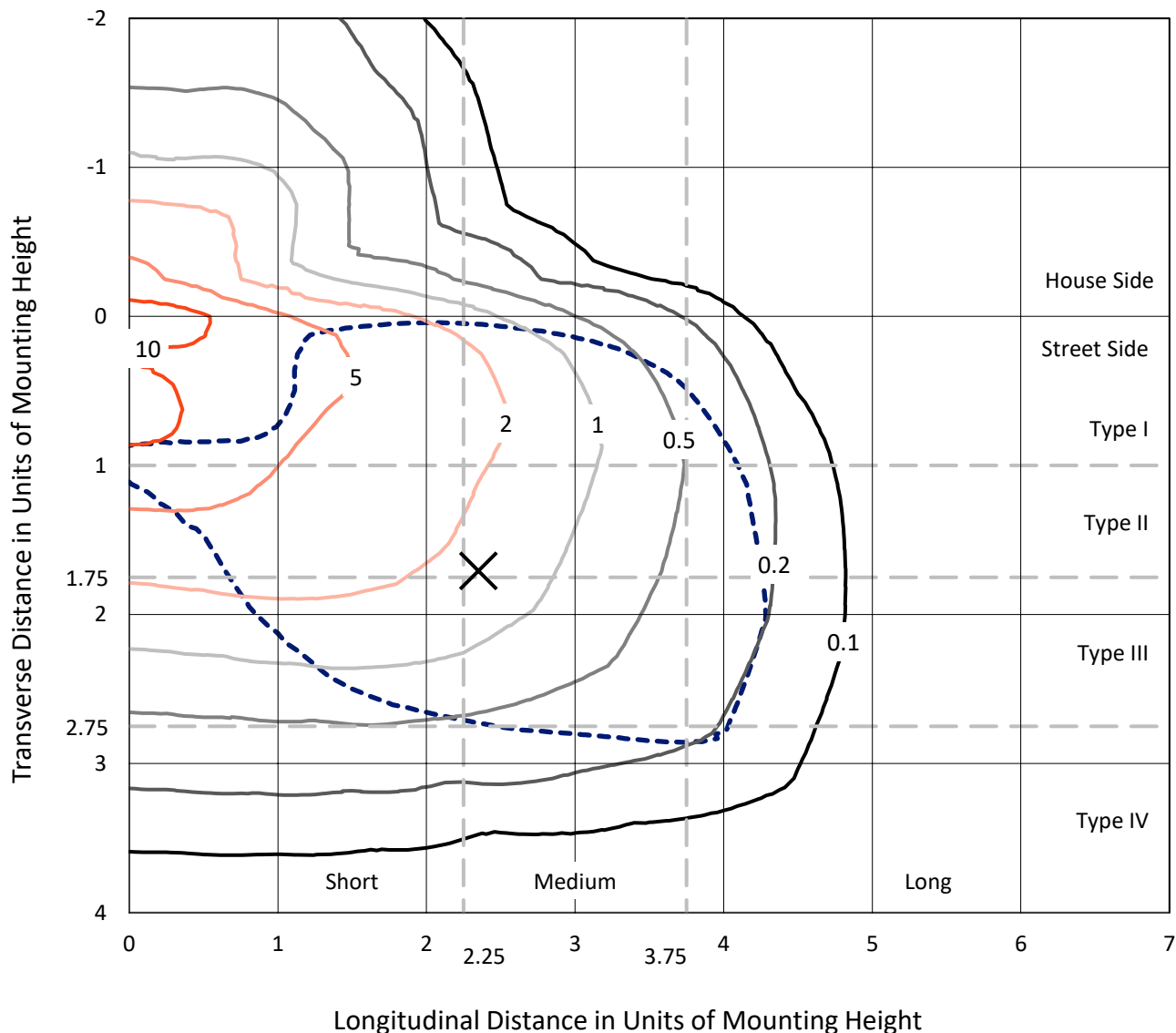
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

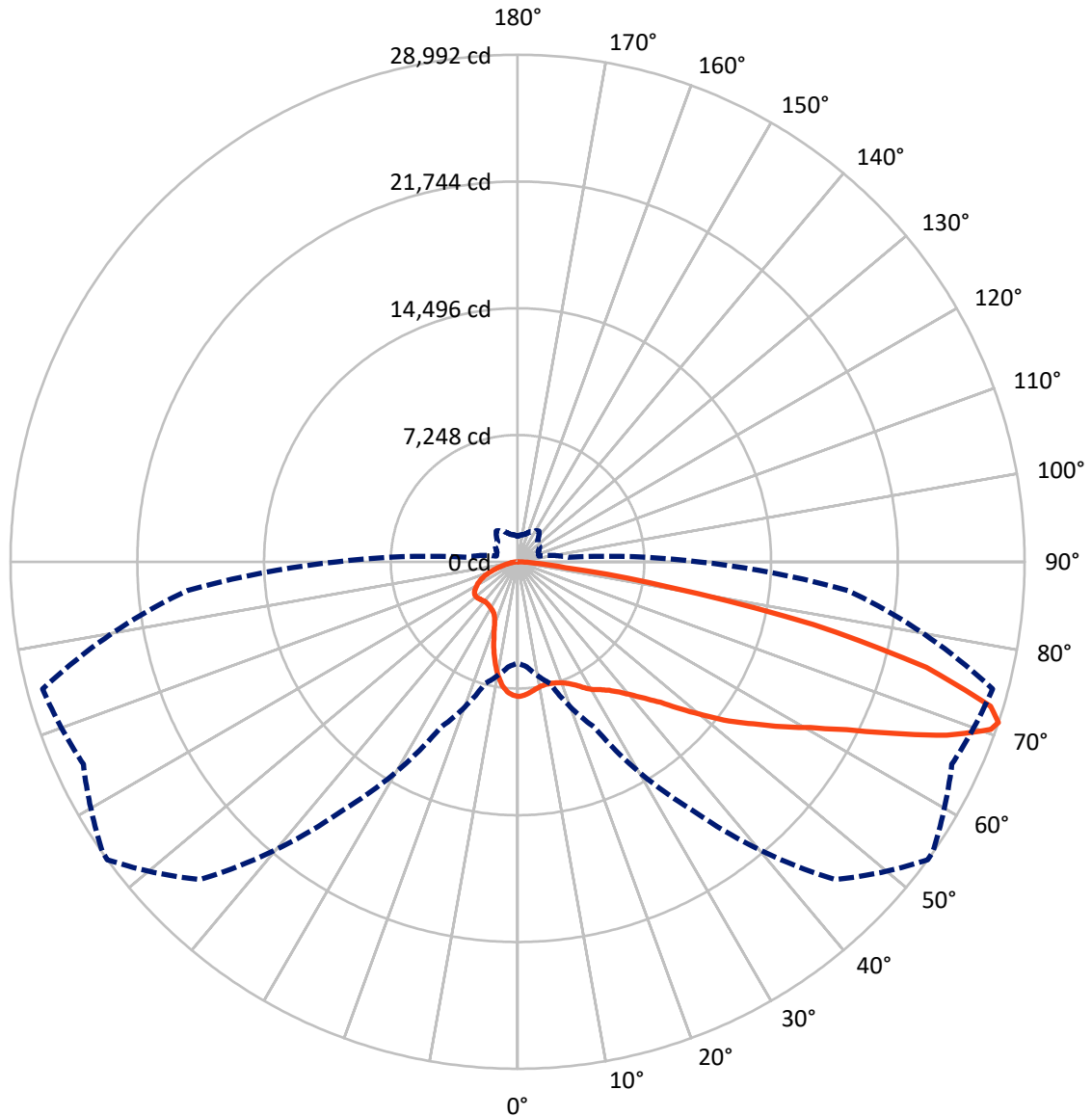
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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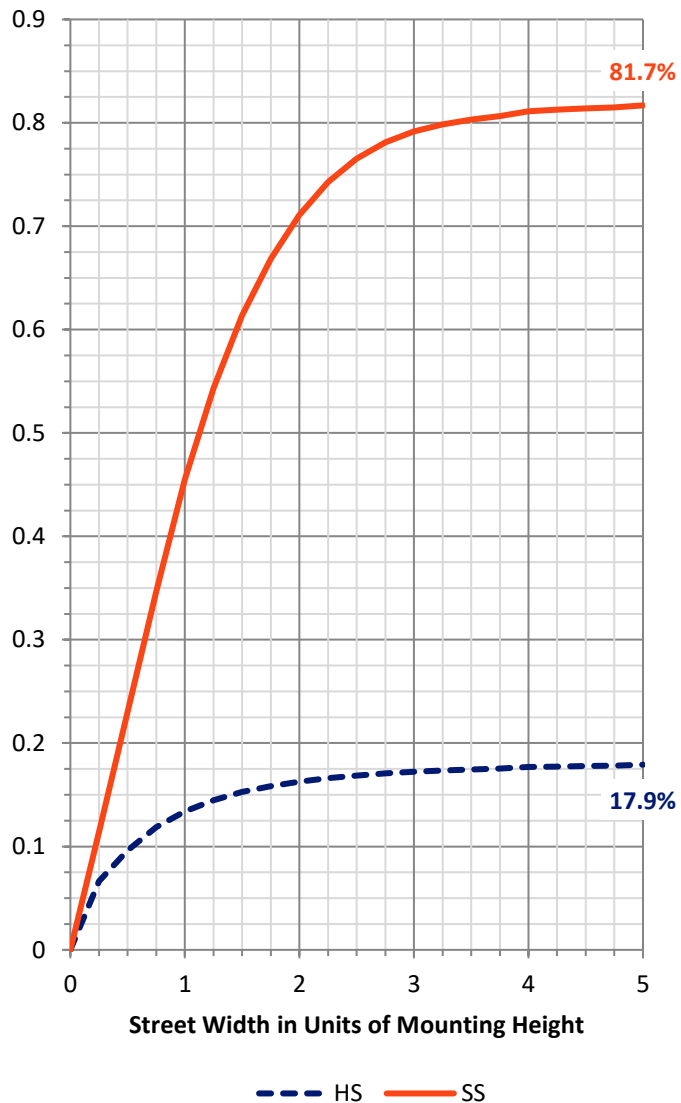
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7794.8	0.0	7794.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35379.1	0.0	35379.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	43173.8	0.0	43173.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.4	1.6
10°-20°	1812.6	4.2
20°-30°	3018.0	7.0
30°-40°	4462.6	10.3
40°-50°	6285.7	14.6
50°-60°	8416.8	19.5
60°-70°	10608.8	24.6
70°-80°	7245.8	16.8
80°-90°	637.2	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°	43173.8	100.0
0°-180°	43173.8	100.0

Coefficient of Utilization

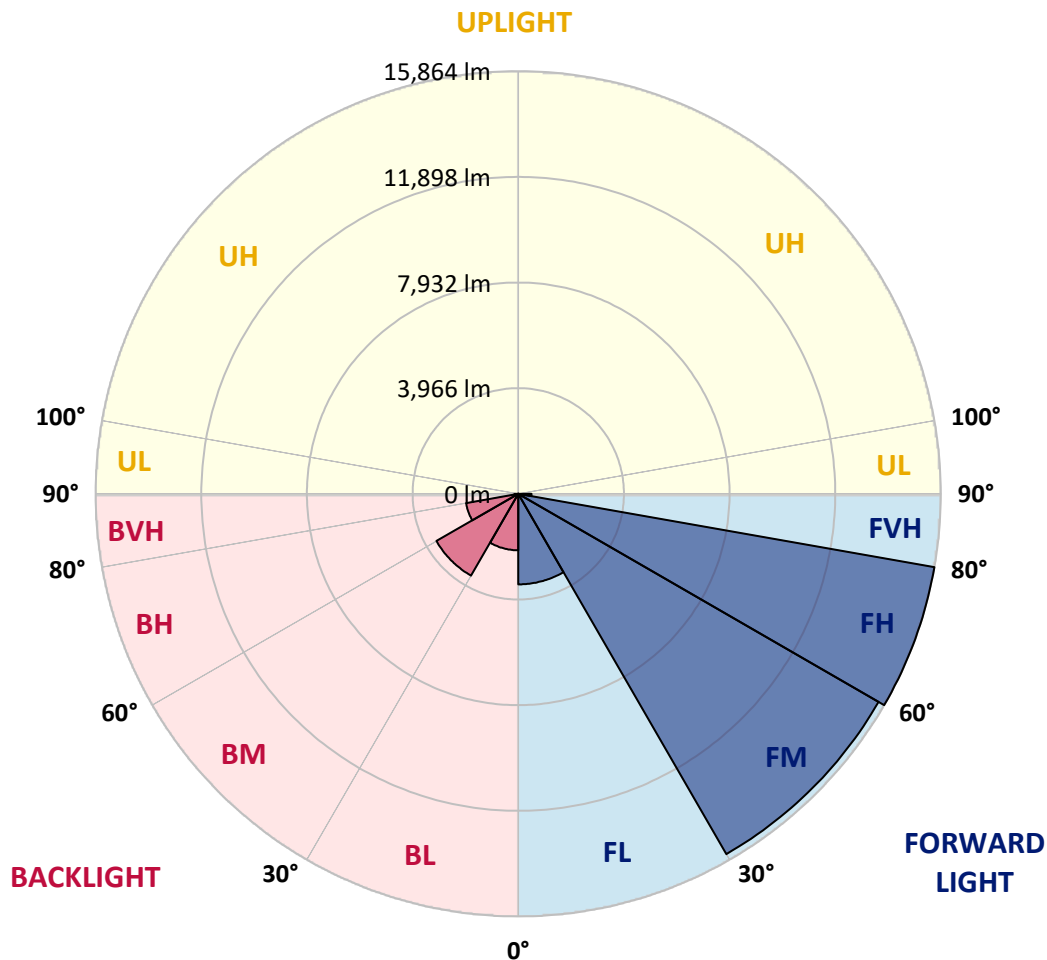


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3398.5	7.9			
FM (30°-60°)	15618.7	36.2			
FH (60°-80°)	15863.8	36.7			G5
FVH (80°-90°)	498.1	1.2			G3/500
BL (0°-30°)	2118.5	4.9	B3/2500		
BM (30°-60°)	3546.4	8.2	B3/5000		
BH (60°-80°)	1990.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	139.1	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°	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8
2.5°	7441.6	7476.6	7485.9	7509.3	7558.3	7597.9	7637.5	7632.9	7688.8	7712.2	7733.1
5°	7110.5	7119.8	7154.8	7201.5	7287.8	7397.3	7504.7	7506.9	7644.6	7754.1	7807.8
7.5°	6868.0	6898.3	6921.6	6970.6	7061.6	7180.5	7350.7	7364.7	7609.6	7826.5	7940.7
10°	6709.4	6744.4	6770.1	6830.7	6921.6	7054.5	7238.8	7264.4	7583.9	7940.7	8141.3
12.5°	6564.8	6599.8	6623.1	6702.4	6821.3	6984.6	7192.1	7222.5	7593.2	8073.7	8360.5
15°	6653.4	6681.4	6672.1	6695.4	6774.7	6961.3	7210.8	7241.1	7628.2	8201.9	8577.4
17.5°	7047.5	7070.9	6993.9	6905.3	6868.0	7005.6	7269.1	7301.7	7698.2	8334.9	8799.0
20°	7628.2	7691.2	7523.3	7325.0	7145.5	7164.1	7390.3	7425.3	7796.1	8467.8	9025.2
22.5°	8383.8	8430.5	8225.3	7898.7	7567.6	7397.3	7572.2	7593.2	7943.1	8640.3	9272.4
25°	9272.4	9300.3	9015.8	8596.0	8118.0	7796.1	7821.8	7859.1	8185.6	8836.2	9491.5
27.5°	10135.2	10223.9	9895.0	9382.0	8752.3	8215.9	8164.6	8187.9	8449.1	8945.9	9643.1
30°	11159.0	11152.0	10804.5	10209.9	9403.0	8673.0	8488.7	8484.1	8591.4	8999.5	9752.7
32.5°	11975.2	12070.8	11730.4	11082.0	10146.9	9146.4	8712.7	8703.3	8701.0	9092.7	9916.0
35°	12903.4	12917.4	12604.9	11951.9	10951.4	9741.1	9025.2	8978.5	8924.9	9293.3	10137.6
37.5°	13733.6	13798.9	13512.1	12779.8	11742.0	10359.1	9454.3	9424.0	9260.7	9640.8	10492.0
40°	14381.9	14430.9	14258.4	13561.0	12521.0	11026.0	9999.9	9943.9	9745.8	10209.9	10965.4
42.5°	14594.1	14694.4	14762.1	14419.3	13416.5	11816.6	10671.6	10601.6	10450.1	11072.7	11511.1
45°	14610.5	14769.0	15125.8	15142.2	14316.6	12763.4	11455.1	11406.2	11394.5	12178.1	12278.4
47.5°	14486.8	14647.8	15247.1	15571.3	15118.9	13719.6	12586.3	12509.3	12516.3	13544.7	13138.9
50°	14188.4	14379.6	15107.2	15846.4	15746.2	14713.0	13780.3	13754.6	13899.2	15104.9	14032.1
52.5°	13626.3	13857.2	14962.6	16019.0	16212.6	15568.9	15137.5	15065.2	15431.4	16797.9	15009.2
55°	12070.8	12418.3	14433.2	16114.7	16655.7	16387.5	16359.5	16490.1	16975.2	18645.0	16084.3
57.5°	11259.3	11520.4	13283.5	16131.0	17215.4	17339.0	17786.8	17819.4	18668.3	20606.2	17299.4
60°	10816.2	11047.0	12653.8	16023.7	17996.6	18516.7	19246.6	19363.3	20321.7	22730.7	18558.7
62.5°	10429.0	10627.3	12276.0	15652.9	18878.1	20263.4	21137.9	21193.9	22199.1	25076.8	19801.7
65°	9517.2	9743.4	11515.8	15282.1	19638.4	22446.3	23647.2	23582.0	24197.6	27101.0	20580.6
67.5°	8288.2	8575.0	10095.5	14001.8	20013.9	24832.0	26473.8	26392.1	26170.6	28428.0	20804.5
70°	6718.7	6872.6	8278.9	11788.6	18514.3	26084.3	28705.6	28619.3	27392.6	28602.9	19745.7
71°	5781.2	6021.4	7208.5	10471.1	17266.7	25701.8	28992.4	28969.0	27394.9	28120.2	18948.1
72.5°	4512.6	4659.5	5708.9	8113.3	14675.8	23528.4	28283.4	28372.1	26800.2	26779.2	17304.0
75°	2854.4	2919.7	3582.1	4776.1	8052.7	16662.7	24144.0	24384.2	23796.5	21919.2	12868.4
77.5°	1658.1	1742.1	2145.5	2814.8	3479.5	9043.8	17276.0	17537.2	16534.5	12068.5	5268.2
80°	965.5	1058.8	1413.2	1634.7	1597.5	3355.9	8796.6	9242.0	7159.4	3048.1	1478.5
82.5°	536.4	599.3	993.5	995.8	851.2	1096.0	2768.1	2896.5	2042.9	1229.0	604.0
85°	389.5	440.8	641.4	580.7	408.1	471.1	963.2	1009.8	825.5	517.7	195.9
87.5°	137.6	195.9	352.1	279.8	112.0	98.0	277.5	226.2	209.9	144.6	44.3
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°	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8	7702.8
2.5°	7744.8	7749.5	7726.2	7684.2	7642.2	7588.6	7527.9	7481.3	7460.3	7458.0	7455.6
5°	7828.7	7840.4	7751.9	7621.3	7476.6	7299.4	7147.9	6975.3	6931.0	6861.0	6881.9
7.5°	7964.0	7957.1	7782.2	7504.7	7166.5	6791.0	6473.8	6289.6	6098.4	6044.8	6047.1
10°	8157.6	8113.3	7782.2	7266.8	6702.4	6145.1	5702.0	5422.1	5270.5	5144.5	5098.0
12.5°	8362.8	8250.9	7707.5	6933.2	6105.4	5422.1	4946.4	4568.6	4470.6	4368.0	4370.3
15°	8558.7	8372.1	7560.6	6464.5	5461.7	4650.2	4188.4	3962.2	3931.9	3943.6	3941.2
17.5°	8735.9	8458.4	7336.7	5942.1	4710.8	3987.8	3743.0	3759.3	3840.9	3899.3	3906.2
20°	8915.6	8509.7	7003.2	5242.5	4001.8	3586.8	3596.1	3724.3	3847.9	3927.2	3938.9
22.5°	9085.8	8533.1	6611.4	4566.2	3488.8	3416.5	3554.1	3691.7	3813.0	3889.9	3901.5
25°	9197.7	8479.4	6056.4	3859.6	3236.9	3355.9	3500.5	3617.1	3719.6	3799.0	3817.6
27.5°	9228.0	8306.8	5368.4	3288.2	3120.3	3297.5	3430.5	3516.8	3596.1	3670.7	3684.7
30°	9211.7	8052.7	4612.9	2952.4	3052.7	3230.0	3332.5	3395.5	3491.1	3549.4	3561.1
32.5°	9186.1	7756.5	3824.6	2772.8	2996.7	3167.0	3227.6	3283.6	3281.2	3257.9	3274.3
35°	9195.4	7402.0	3185.6	2665.6	2947.8	3120.3	3171.6	3101.7	2901.1	2891.8	2882.5
37.5°	9244.3	7052.2	2721.6	2590.9	2922.1	3113.3	3141.3	2819.5	2642.2	2560.6	2539.7
40°	9370.3	6644.1	2416.0	2535.0	2919.7	3167.0	3003.7	2677.2	2336.7	2178.1	2166.5
42.5°	9538.2	6242.9	2229.4	2500.0	2947.8	3248.6	2947.8	2476.6	2105.9	2012.5	1998.6
45°	9787.7	5783.6	2126.9	2483.7	2989.7	3278.9	2929.1	2329.7	2012.5	1937.9	1937.9
47.5°	10069.9	5345.1	2070.9	2472.0	3043.4	3257.9	2763.5	2283.1	1968.3	1977.6	2021.9
50°	10349.8	4965.0	2028.9	2446.3	3090.0	3246.2	2695.9	2280.8	1980.0	2098.8	2178.1
52.5°	10673.9	4696.8	1977.6	2404.4	3090.0	3171.6	2674.9	2327.4	2012.5	2047.5	2082.5
55°	11065.7	4612.9	1912.3	2313.5	3034.0	2985.0	2663.2	2395.0	2035.9	1954.3	1968.3
57.5°	11583.5	4748.1	1849.4	2199.1	2905.8	2791.5	2658.6	2413.7	1982.2	1914.7	1900.7
60°	12185.1	5016.3	1830.7	2082.5	2730.9	2625.9	2630.6	2360.0	1907.6	1837.7	1849.4
62.5°	12607.2	5177.2	1819.0	1993.9	2539.7	2444.1	2562.9	2294.7	1875.0	1814.4	1826.0
65°	12607.2	4981.3	1711.7	1858.7	2292.5	2224.8	2481.3	2213.1	1833.0	1763.1	1751.4
67.5°	12129.1	4409.9	1548.5	1655.8	2019.6	1975.3	2367.1	2115.2	1770.0	1716.4	1688.5
70°	10883.8	3344.2	1343.3	1417.9	1674.4	1714.1	2220.1	1982.2	1665.1	1599.8	1557.9
71°	10335.8	2912.8	1257.0	1296.6	1541.5	1599.8	2150.2	1926.3	1618.5	1525.2	1450.6
72.5°	9279.3	2453.4	1126.4	1142.7	1317.6	1422.6	2003.2	1819.0	1529.8	1397.0	1312.9
75°	7049.9	1791.0	907.2	897.9	974.8	1128.7	1695.4	1620.8	1341.0	1161.3	1112.4
77.5°	3045.7	974.8	678.6	685.6	662.3	855.9	1333.9	1392.3	1149.7	944.5	900.2
80°	923.5	562.0	464.1	473.4	443.1	573.7	939.8	1091.4	923.5	734.6	674.0
82.5°	473.4	335.8	317.2	312.5	282.2	324.2	569.0	746.3	660.0	459.4	405.8
85°	205.2	179.5	156.3	151.6	133.0	116.6	202.9	373.1	349.8	256.5	244.8
87.5°	51.3	46.7	30.3	28.0	16.3	2.3	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)