

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: P647688

Luminaire Tested: **GALN-SA9D-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54454.5 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

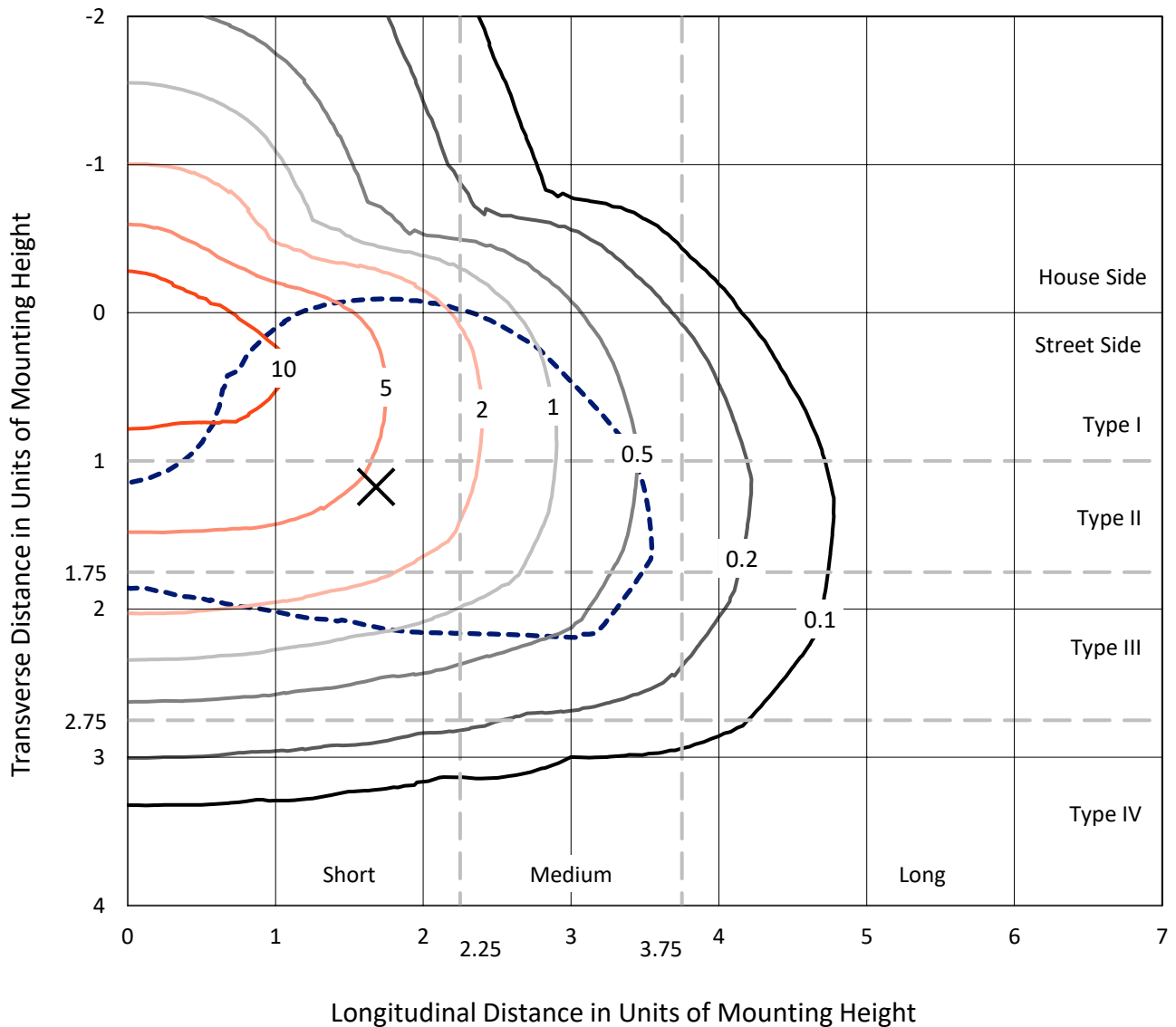
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647688
 CATALOG NUMBER: GALN-SA9D-835-U-T3

Iso-Footcandle Lines of Horizontal Illumination

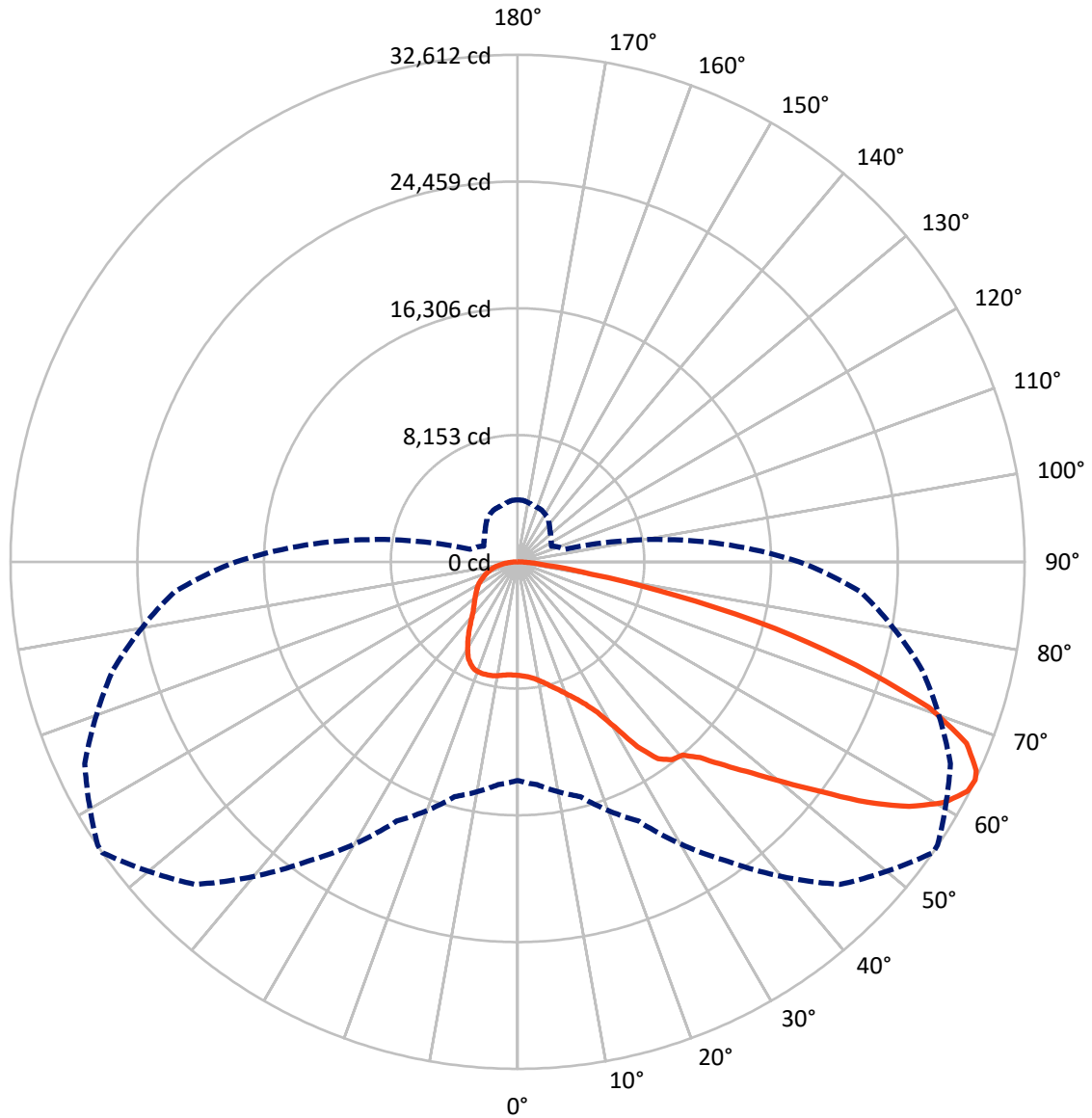
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

REPORT NUMBER: P647688
CATALOG NUMBER: GALN-SA9D-835-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P647688
 CATALOG NUMBER: GALN-SA9D-835-U-T3

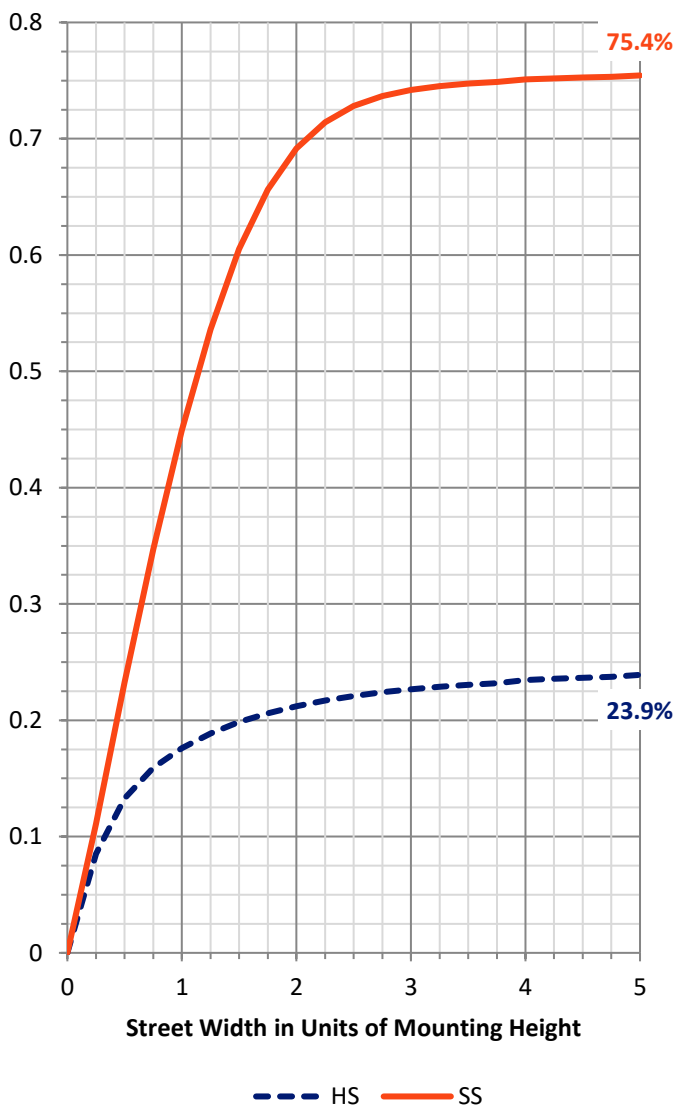
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13228.1	0.0	13228.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	41226.5	0.0	41226.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	54454.5	0.0	54454.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.7	1.3
10°-20°	2242.5	4.1
20°-30°	3992.2	7.3
30°-40°	6142.4	11.3
40°-50°	8707.3	16.0
50°-60°	12603.6	23.1
60°-70°	13043.4	24.0
70°-80°	6108.2	11.2
80°-90°	904.3	1.7
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°	54454.5	100.0
0°-180°	54454.5	100.0

Coefficient of Utilization

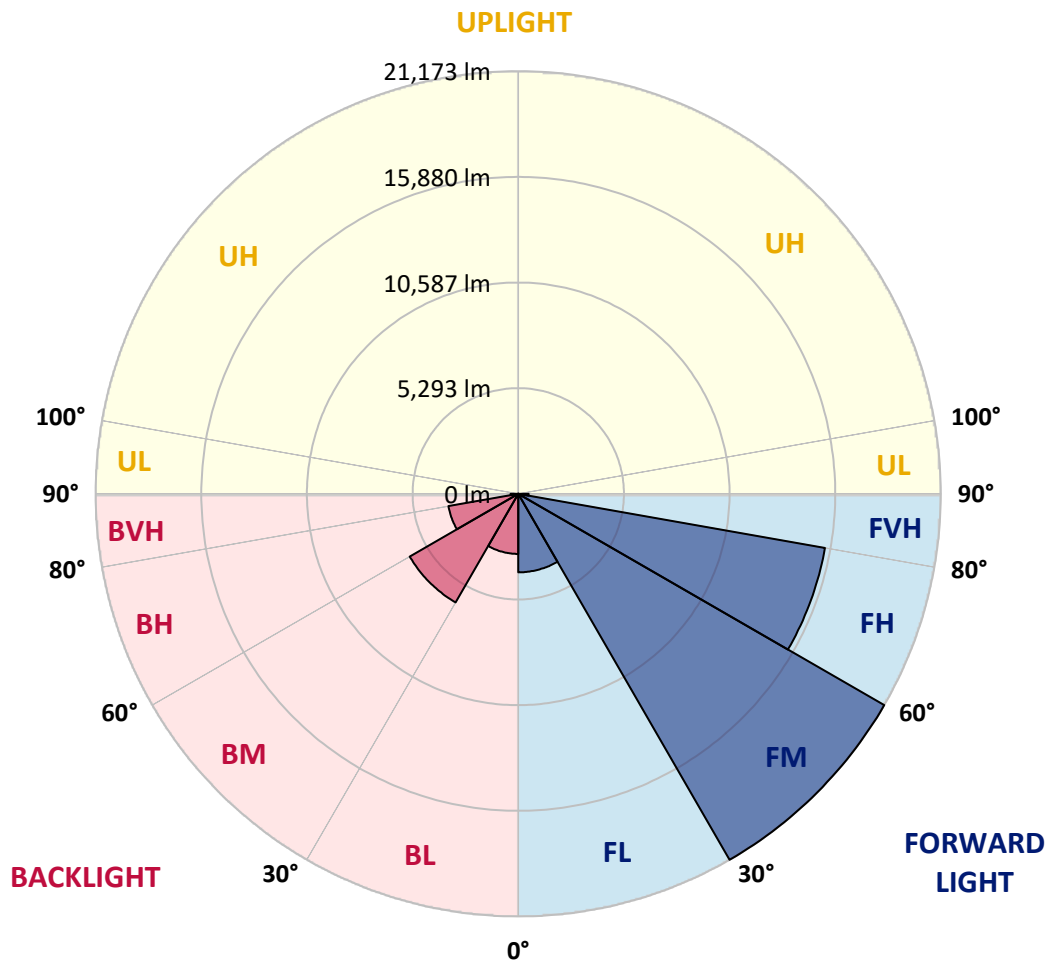


REPORT NUMBER: P647688
 CATALOG NUMBER: GALN-SA9D-835-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3932.5	7.2			
FM (30°-60°)	21173.4	38.9			
FH (60°-80°)	15602.8	28.7			G5
FVH (80°-90°)	517.7	1.0			G4/750
BL (0°-30°)	3012.8	5.5	B4/5000		
BM (30°-60°)	6279.9	11.5	B4/8500		
BH (60°-80°)	3548.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	386.5	0.7			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 III Short





REPORT NUMBER: P647688

CATALOG NUMBER: GALN-SA9D-835-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2
2.5°	7388.1	7385.1	7394.2	7385.1	7391.1	7369.9	7360.8	7366.9	7357.8	7342.6	7315.3
5°	7479.1	7476.2	7479.1	7467.0	7473.1	7461.0	7439.7	7445.8	7430.6	7397.2	7357.8
7.5°	7633.9	7621.8	7621.8	7618.8	7606.7	7588.4	7573.3	7567.2	7552.0	7509.5	7448.8
10°	7834.3	7834.3	7837.4	7813.1	7828.2	7794.8	7779.7	7776.6	7725.0	7670.4	7585.4
12.5°	8098.4	8113.5	8104.4	8092.3	8086.3	8074.1	8022.5	8034.7	7977.0	7882.9	7779.7
15°	8426.2	8450.5	8435.3	8429.2	8414.0	8368.5	8347.2	8338.2	8262.3	8125.7	7989.1
17.5°	8860.3	8829.9	8817.8	8802.6	8738.8	8705.5	8669.1	8663.0	8596.2	8435.3	8222.8
20°	9239.7	9282.2	9257.9	9242.7	9179.0	9115.2	9087.9	9078.8	9021.2	8845.1	8505.1
22.5°	9692.0	9701.1	9710.1	9673.7	9643.4	9594.8	9546.3	9531.1	9509.8	9327.7	8911.9
25°	10174.6	10211.0	10180.6	10144.2	10107.8	10104.8	10150.3	10144.2	10135.2	9959.1	9452.1
27.5°	10960.7	10994.1	11003.3	10963.8	10824.2	10836.3	10939.5	10972.9	11112.5	10821.1	10147.3
30°	11403.9	11437.3	11513.2	11661.9	11883.5	12077.8	12326.7	12402.6	12536.1	11986.7	10972.9
32.5°	11677.1	11689.3	11825.8	12102.0	12766.8	13492.3	14169.2	14196.5	14281.5	13510.4	11728.7
35°	12108.2	12117.2	12226.5	12530.0	13310.1	14518.2	15565.4	15598.8	15529.0	13984.0	12080.8
37.5°	12639.3	12663.6	12733.4	12985.4	13917.2	15377.3	16145.1	16120.9	15501.7	14360.4	12703.1
40°	13413.3	13413.3	13331.4	13671.3	14557.7	15869.0	16348.6	16306.1	16142.2	15450.1	13650.1
42.5°	14096.3	14084.1	14278.4	14509.1	15359.0	16627.8	17201.5	17271.3	17541.5	16819.0	14727.7
45°	14985.7	15040.3	15149.6	15568.5	16721.9	17923.9	18664.5	18731.3	19113.7	18430.8	15987.3
47.5°	15884.1	15902.3	16245.4	16803.9	18409.6	19681.4	20288.5	20397.7	20746.8	20315.8	17344.2
50°	16521.5	16694.6	17244.0	18124.3	20148.9	21824.3	22297.9	22428.4	23044.6	22367.7	18925.6
52.5°	17195.4	17365.4	18036.2	19377.8	22146.1	24015.9	24598.7	24686.7	25327.2	24443.9	20543.4
55°	17772.1	17930.0	18691.9	20488.8	23736.6	26253.0	27309.3	27206.1	27512.7	26043.5	21791.0
57.5°	17866.3	17993.7	18952.9	21199.1	24932.6	28171.3	29686.0	29746.7	29391.5	27239.5	22820.0
60°	17137.8	17398.8	18500.6	21123.2	25469.8	29506.9	31458.7	31501.1	30493.4	27852.6	23229.7
62.5°	15847.7	15820.4	17152.9	19903.0	24717.0	29810.5	32502.8	32457.3	30924.4	27558.2	22832.1
64°	14066.0	14393.7	15638.2	18403.5	23502.9	29343.0	32612.1	32587.8	30718.0	26945.1	22155.2
65°	12979.2	12961.1	14190.4	17177.2	22294.8	28638.8	32417.8	32384.4	30287.0	26395.6	21630.1
67.5°	9370.2	9412.7	10626.9	13255.5	18124.3	25885.7	31152.0	31027.6	28587.2	24574.4	19632.8
70°	5676.1	5700.5	6653.5	8793.5	13009.6	20925.9	28080.3	28086.4	25985.9	21854.7	16709.8
72.5°	2989.9	3053.6	3436.0	4993.2	7901.1	14682.1	22780.5	23320.8	22310.0	18652.4	13200.8
75°	1663.4	1672.5	1942.6	2461.7	4031.0	8216.8	17122.6	17277.4	17662.8	15013.0	9761.7
77.5°	1268.8	1287.0	1372.0	1590.5	2194.6	3809.4	10362.8	11139.8	12448.1	10584.4	5569.9
80°	1029.0	1047.2	1120.1	1250.6	1460.0	1806.1	4814.1	5233.0	6662.6	4698.8	2173.3
82.5°	801.3	789.2	883.3	968.3	1062.4	1068.5	1976.1	2185.5	2713.6	2021.5	940.9
85°	594.9	594.9	670.8	652.6	686.0	625.3	871.2	962.2	1086.6	859.0	437.1
87.5°	236.8	261.1	440.1	394.6	306.5	245.9	321.7	340.0	376.4	336.9	182.1
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: P647688
 CATALOG NUMBER: GALN-SA9D-835-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2	7306.2
2.5°	7318.3	7327.4	7306.2	7291.0	7284.9	7275.8	7266.7	7269.8	7281.9	7294.0	7291.0
5°	7354.7	7357.8	7321.4	7303.1	7291.0	7278.8	7278.8	7287.9	7312.2	7330.4	7330.4
7.5°	7445.8	7445.8	7394.2	7360.8	7342.6	7321.4	7315.3	7318.3	7336.5	7360.8	7363.8
10°	7588.4	7576.3	7509.5	7457.9	7424.6	7373.0	7327.4	7303.1	7312.2	7327.4	7327.4
12.5°	7761.5	7728.1	7643.1	7573.3	7491.3	7394.2	7300.1	7251.5	7248.5	7263.7	7257.5
15°	7946.6	7910.2	7791.8	7664.3	7521.7	7379.0	7266.7	7196.9	7142.2	7127.1	7160.5
17.5°	8162.1	8086.3	7922.3	7746.3	7533.8	7348.6	7172.6	7029.9	6932.8	6905.5	6914.6
20°	8423.2	8323.0	8101.4	7825.2	7524.7	7239.4	6966.2	6775.0	6617.1	6568.6	6574.6
22.5°	8784.4	8611.4	8286.6	7864.7	7448.8	7033.0	6653.5	6404.6	6213.4	6137.5	6183.0
25°	9194.1	9006.0	8462.7	7855.5	7251.5	6702.1	6283.3	5958.5	5785.4	5673.1	5697.4
27.5°	9758.8	9424.8	8650.8	7773.6	6969.2	6298.4	5812.8	5506.2	5348.4	5290.7	5318.0
30°	10481.2	9968.2	8854.2	7552.0	6523.0	5788.5	5339.2	5138.9	5044.8	4972.0	4996.2
32.5°	11003.3	10350.6	8899.7	7178.7	6040.4	5324.1	5017.5	4868.8	4765.6	4695.7	4710.9
35°	11376.6	10675.4	8878.5	6720.3	5536.5	4941.6	4762.5	4641.1	4474.1	4322.4	4295.1
37.5°	11877.4	11082.2	8723.6	6219.5	5038.8	4683.6	4556.1	4331.5	4091.7	3888.3	3879.2
40°	12645.4	11558.7	8392.8	5630.6	4613.7	4492.4	4337.6	4046.2	3788.2	3624.3	3612.1
42.5°	13437.6	11998.8	7943.6	5011.4	4264.7	4292.0	4103.9	3815.5	3657.6	3551.4	3539.2
45°	14405.9	12475.4	7457.9	4474.1	4006.7	4103.9	3900.4	3733.5	3639.4	3569.6	3551.4
47.5°	15453.1	12964.1	6911.5	3991.5	3788.2	3930.8	3815.5	3739.6	3688.0	3639.4	3618.2
50°	16582.3	13510.4	6398.6	3603.0	3590.8	3751.7	3806.4	3779.1	3748.7	3733.5	3715.3
52.5°	17820.7	14068.9	5967.6	3329.8	3417.9	3624.3	3809.4	3830.7	3830.7	3821.5	3809.4
55°	18658.5	14457.5	5530.5	3108.2	3241.8	3521.1	3803.3	3885.2	3915.6	3903.5	3891.4
57.5°	19277.7	14670.0	4981.1	2917.0	3093.1	3420.8	3769.9	3891.4	3921.7	3936.8	3930.8
60°	19405.2	14472.7	4261.6	2716.7	2932.2	3275.2	3648.5	3800.3	3839.8	3933.9	3943.0
62.5°	18831.5	13865.6	3545.3	2519.4	2734.9	3053.6	3484.6	3697.1	3776.0	3921.7	3936.8
64°	18127.2	13185.6	3147.7	2394.9	2607.4	2929.1	3402.7	3669.8	3773.0	3967.2	3979.4
65°	17611.2	12690.9	2898.8	2316.0	2525.4	2847.1	3357.1	3678.8	3800.3	4037.1	4055.2
67.5°	15711.1	10988.1	2397.9	2130.9	2331.1	2707.5	3366.2	3754.8	3794.2	4064.4	4061.3
70°	13000.5	8748.0	2009.4	1960.9	2143.0	2595.3	3329.8	3633.4	3636.4	3815.5	3773.0
72.5°	9734.5	6465.4	1742.3	1784.8	1933.5	2328.2	3144.7	3469.5	3417.9	3442.1	3399.6
75°	6686.9	4276.8	1499.4	1596.6	1715.0	2058.0	2883.6	3150.7	3068.7	3038.4	3008.1
77.5°	3569.6	2364.6	1247.6	1411.4	1490.4	1778.7	2516.3	2774.3	2689.4	2571.0	2531.5
80°	1444.9	1114.0	1004.7	1168.6	1214.1	1432.7	2094.4	2255.3	2191.5	1985.1	1918.4
82.5°	725.4	667.8	789.2	919.7	922.8	1022.9	1557.2	1708.9	1566.2	1314.3	1256.6
85°	379.4	391.6	543.3	646.5	570.7	552.4	934.9	1035.0	950.1	825.6	743.7
87.5°	136.6	157.9	285.3	282.3	200.4	106.3	206.4	100.1	54.7	33.4	42.5
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)