

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: P648598

Luminaire Tested: **GALN-SA8B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35216.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

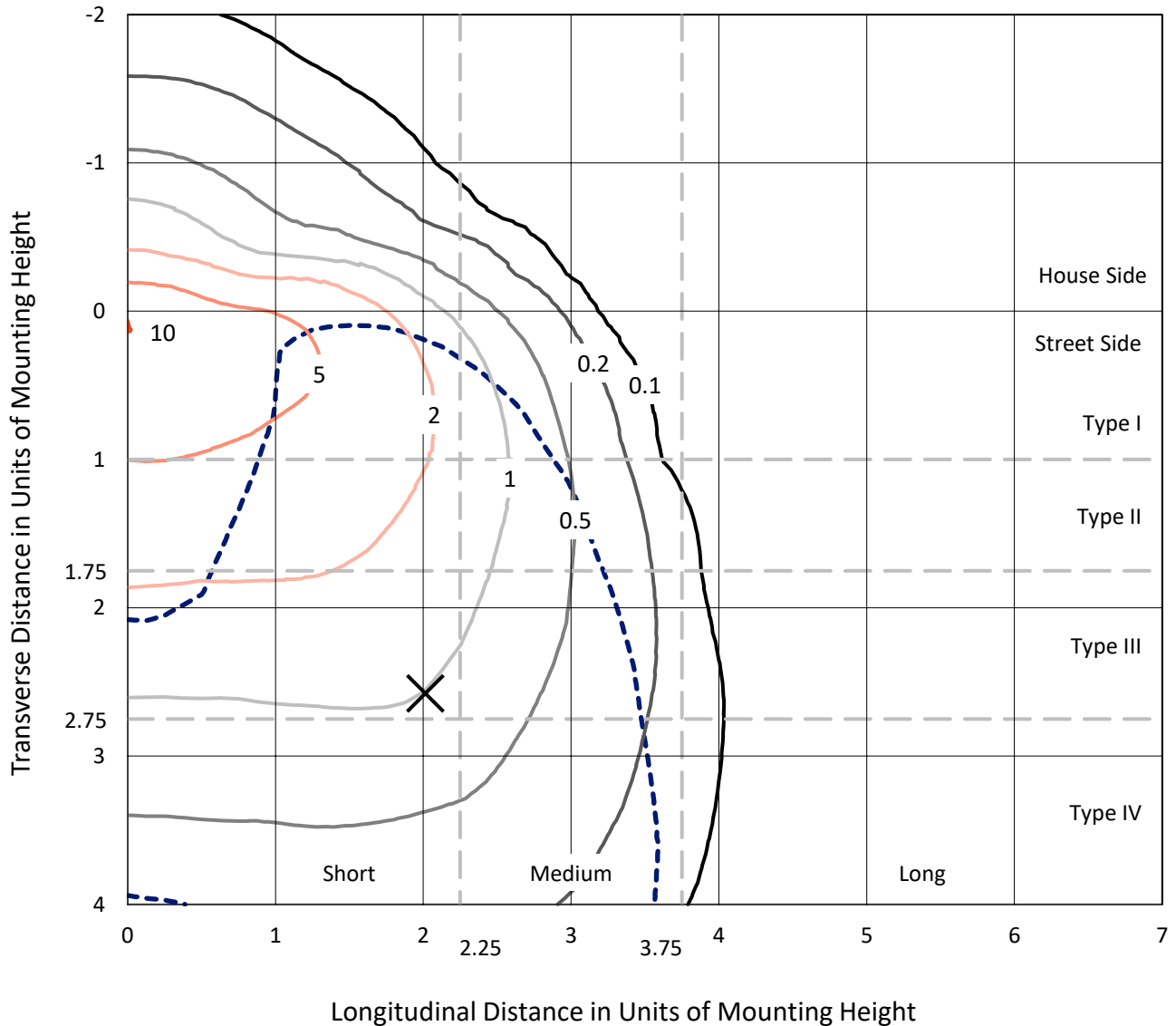
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648598
 CATALOG NUMBER: GALN-SA8B-835-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

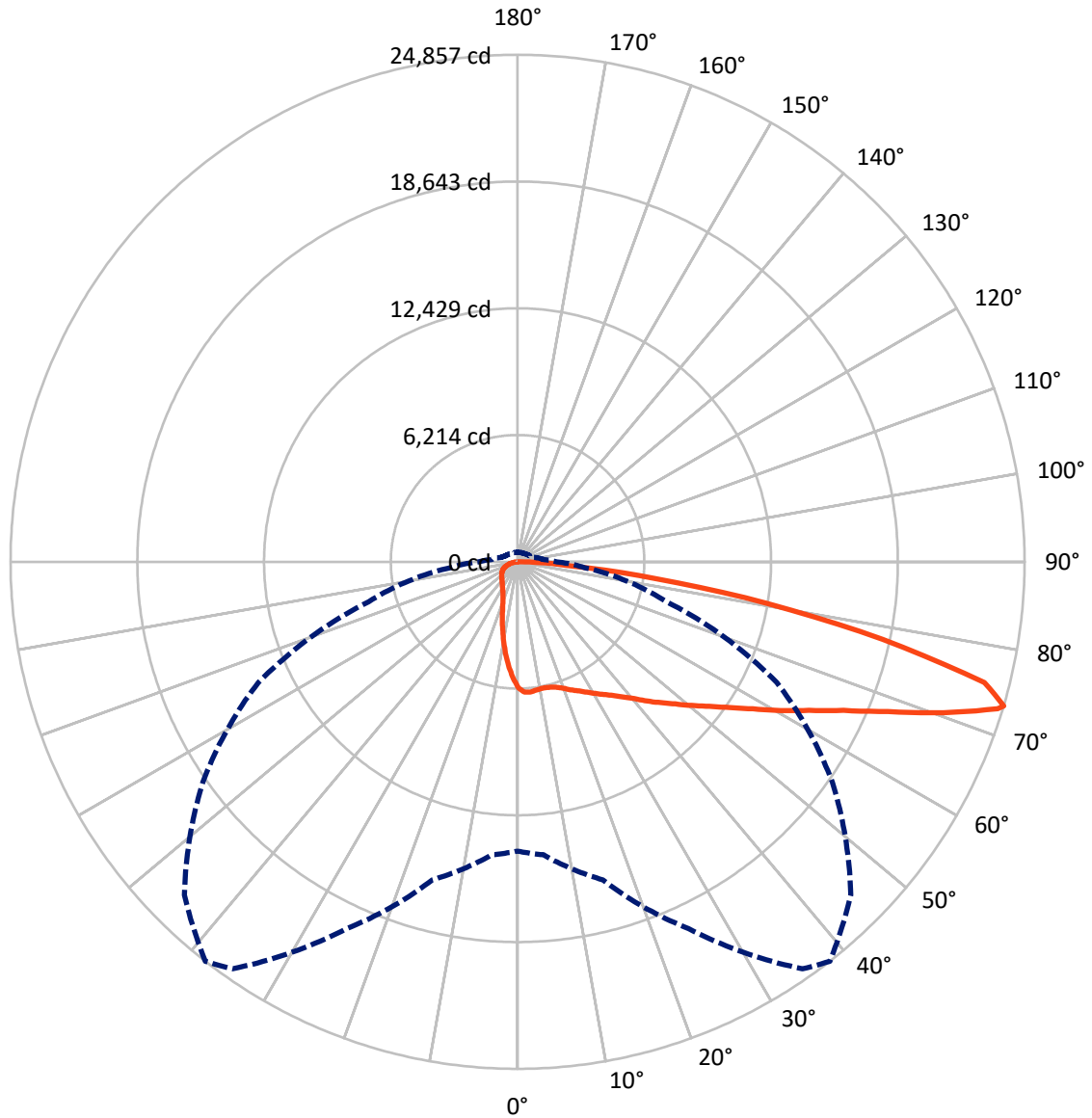
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P648598
CATALOG NUMBER: GALN-SA8B-835-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P648598
 CATALOG NUMBER: GALN-SA8B-835-U-SL4

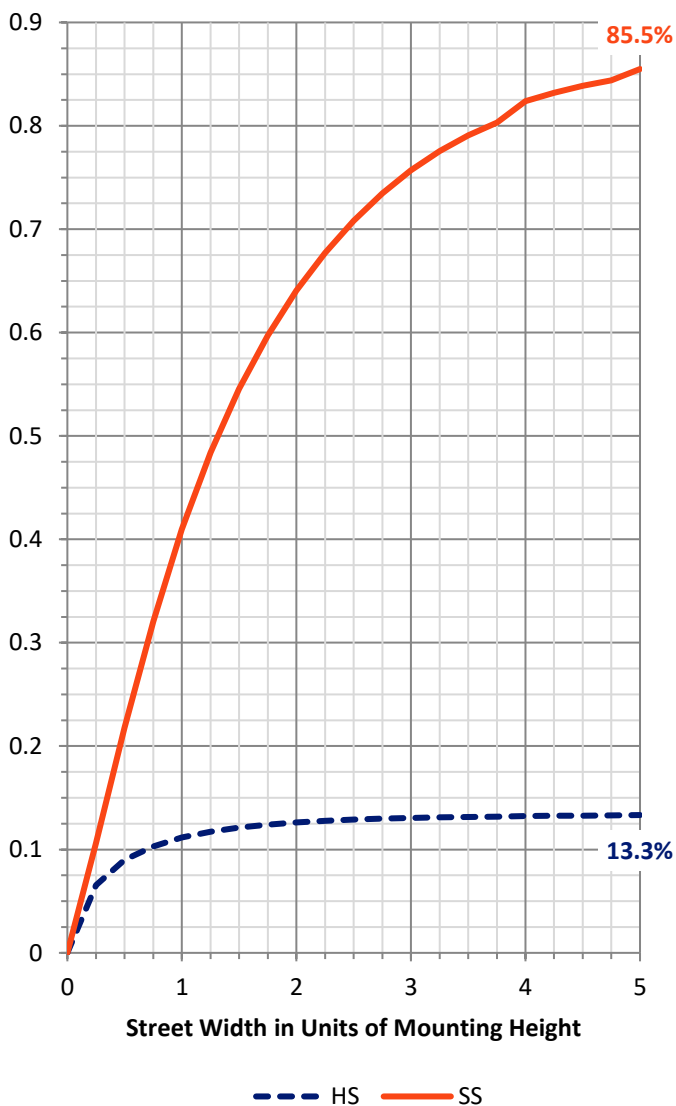
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4734.1	0.0	4734.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30482.1	0.0	30482.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	35216.2	0.0	35216.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.0	1.5
10°-20°	1384.9	3.9
20°-30°	2156.5	6.1
30°-40°	3163.1	9.0
40°-50°	4692.1	13.3
50°-60°	6647.7	18.9
60°-70°	8432.8	23.9
70°-80°	7019.7	19.9
80°-90°	1179.4	3.3
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°	35216.2	100.0
0°-180°	35216.2	100.0

Coefficient of Utilization



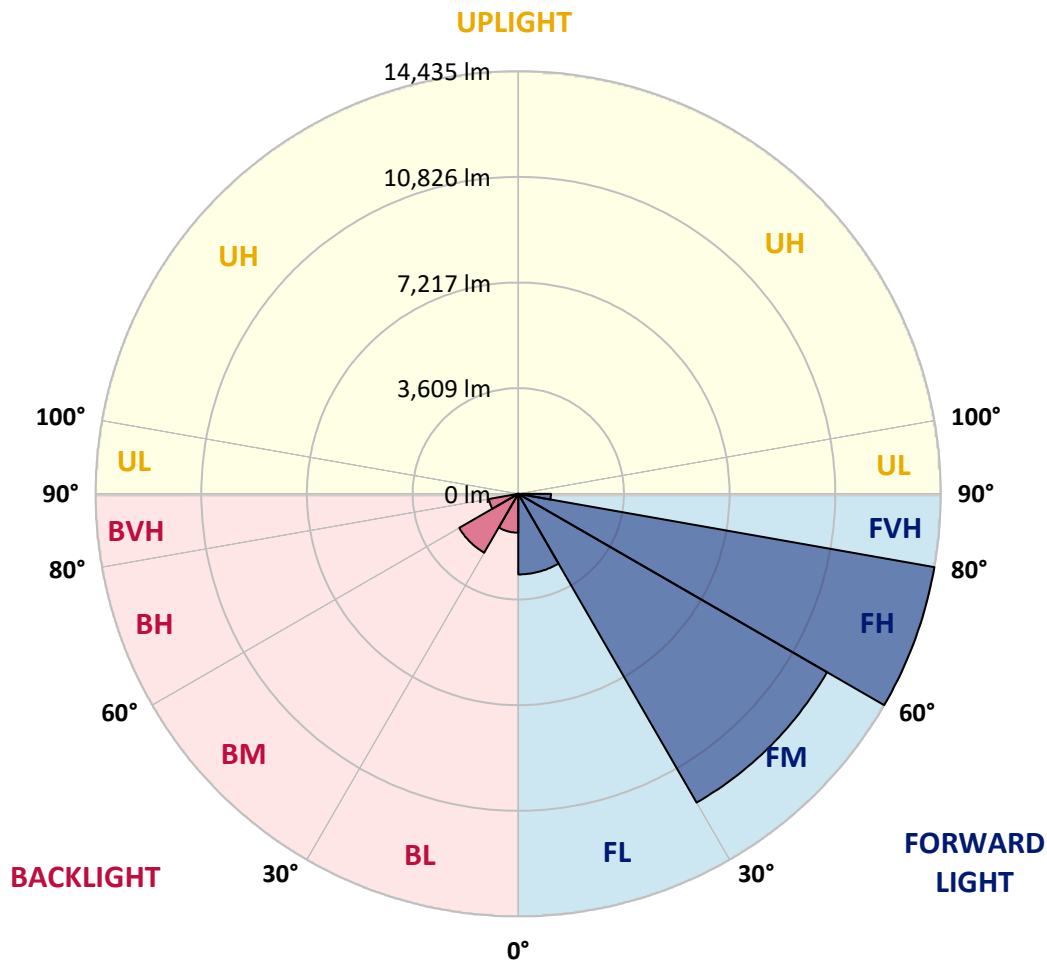
REPORT NUMBER: P648598
 CATALOG NUMBER: GALN-SA8B-835-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2753.0	7.8			
FM (30°-60°)	12178.7	34.6			
FH (60°-80°)	14435.0	41.0			G5
FVH (80°-90°)	1115.5	3.2			G5
BL (0°-30°)	1328.4	3.8	B3/2500		
BM (30°-60°)	2324.2	6.6	B2/2500		
BH (60°-80°)	1017.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.0	0.2			G1/100
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 Short





REPORT NUMBER: P648598

CATALOG NUMBER: GALN-SA8B-835-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9
2.5°	6435.5	6467.3	6451.4	6429.5	6415.6	6401.7	6381.8	6324.1	6278.4	6228.7	6151.1
5°	6483.2	6503.1	6489.2	6461.3	6429.5	6415.6	6377.8	6302.2	6228.7	6145.1	6029.8
7.5°	6455.4	6463.4	6447.4	6413.6	6385.8	6359.9	6316.1	6232.6	6143.1	6041.7	5890.6
10°	6355.9	6385.8	6385.8	6357.9	6330.1	6316.1	6272.4	6192.8	6111.3	5996.0	5817.0
12.5°	6274.4	6306.2	6332.0	6324.1	6322.1	6322.1	6288.4	6228.7	6133.2	6023.9	5811.0
15°	6218.7	6256.5	6312.2	6344.0	6363.9	6369.9	6355.9	6304.2	6206.8	6079.5	5834.9
17.5°	6206.8	6252.5	6354.0	6423.6	6475.3	6473.3	6469.3	6397.7	6290.3	6159.1	5864.7
20°	6260.5	6320.1	6461.3	6570.7	6646.3	6632.4	6610.5	6517.0	6391.7	6244.6	5892.5
22.5°	6421.5	6483.2	6638.4	6757.7	6831.2	6831.2	6765.6	6642.3	6509.1	6344.0	5930.4
25°	6652.2	6719.9	6884.9	7006.2	7040.0	7014.2	6948.6	6799.4	6646.3	6487.2	6009.9
27.5°	6934.6	7016.1	7169.3	7270.7	7260.8	7240.9	7173.3	6982.4	6829.2	6684.1	6145.1
30°	7286.7	7346.3	7505.4	7529.2	7493.5	7489.5	7394.0	7203.1	7059.9	6948.6	6338.1
32.5°	7618.7	7672.5	7799.8	7809.7	7746.1	7754.0	7664.5	7489.5	7408.0	7368.2	6662.2
35°	7970.8	7998.6	8108.0	8096.1	8054.3	8048.3	8012.5	7845.5	7871.3	7942.9	7121.6
37.5°	8265.1	8320.8	8382.4	8392.4	8390.4	8410.3	8434.2	8354.6	8503.8	8728.5	7724.1
40°	8535.6	8583.3	8674.8	8706.6	8784.2	8823.9	8905.5	8907.5	9251.5	9621.4	8466.0
42.5°	8718.5	8800.1	8971.1	9028.8	9217.7	9337.0	9458.3	9587.6	10086.8	10562.0	9341.0
45°	8877.7	8985.0	9269.4	9448.4	9704.9	9850.1	10106.7	10377.1	11095.0	11717.5	10230.0
47.5°	9118.3	9213.7	9539.8	9856.1	10243.8	10410.9	10794.8	11198.5	12137.1	12819.3	11081.1
50°	9452.4	9510.0	9842.2	10357.2	10852.4	11067.2	11574.3	12157.0	13250.8	13907.1	11828.9
52.5°	9880.0	9903.8	10168.3	10854.4	11506.7	11773.2	12445.4	13125.5	14225.3	14851.7	12421.5
55°	10385.1	10345.3	10552.1	11381.4	12254.4	12602.5	13324.4	14106.0	15321.0	15615.4	12853.0
57.5°	10884.2	10822.5	10987.7	12021.8	13177.2	13596.9	14438.1	15116.2	16299.5	16329.3	13155.3
60°	11413.2	11367.5	11564.4	12773.5	14308.8	14806.0	15583.6	16164.3	17246.1	16826.5	13203.1
62.5°	11956.2	11882.6	12163.0	13618.7	15583.6	16035.0	16788.7	17277.9	18174.8	17011.5	12743.7
65°	12483.1	12449.4	12882.9	14623.0	17035.3	17548.4	18280.2	18612.4	18918.6	16733.0	11604.1
67.5°	13044.0	13111.6	13803.7	15963.4	18928.6	19573.0	20362.5	20050.2	19131.4	15414.5	9772.5
70°	13899.1	13942.9	15012.8	17719.4	21368.8	22146.3	22528.2	20561.3	18105.2	12910.7	7346.3
72.5°	14267.0	14460.0	16092.7	19563.0	24141.0	24616.3	23256.0	19421.8	15082.4	8770.2	3860.1
73°	14185.5	14416.2	16142.4	19843.4	24357.8	24857.0	23100.9	18835.1	14020.5	7553.1	3309.2
75°	13169.3	13453.7	15496.0	19608.7	23936.2	23637.8	20607.1	16052.9	9474.2	3434.5	1507.4
77.5°	10391.0	10472.5	12278.3	15834.1	18849.0	18296.2	15422.5	10033.0	3870.1	1276.8	855.1
80°	5212.4	5512.7	6920.7	9070.5	12604.5	12423.5	9734.7	4745.1	1612.8	749.7	566.8
82.5°	2507.8	2720.5	3370.9	4422.9	6964.5	6799.4	4820.6	2593.3	1024.2	437.5	334.1
85°	1614.9	1774.0	2145.8	2110.0	2863.7	2734.5	2165.7	1962.8	606.6	228.7	232.7
87.5°	1066.0	1167.4	1400.1	1119.6	1042.1	942.7	956.6	1105.8	119.3	87.5	31.8
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: P648598
 CATALOG NUMBER: GALN-SA8B-835-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9	6186.9
2.5°	6119.3	6093.4	6007.9	5924.4	5844.9	5769.2	5719.6	5653.9	5610.2	5622.1	5640.0
5°	5966.1	5908.4	5757.3	5610.2	5471.0	5305.9	5172.7	5065.2	4983.7	4953.9	4947.9
7.5°	5805.1	5707.6	5490.9	5238.3	5001.6	4796.8	4560.1	4442.8	4305.6	4257.9	4241.9
10°	5707.6	5576.4	5272.1	4920.1	4564.1	4224.1	3967.5	3758.6	3569.8	3533.9	3516.1
12.5°	5679.8	5506.8	5097.1	4643.7	4170.3	3752.7	3372.9	3098.4	2915.4	2873.7	2812.1
15°	5663.8	5449.1	4934.0	4365.2	3764.7	3255.6	2855.8	2535.6	2368.6	2257.2	2259.2
17.5°	5650.0	5383.4	4751.0	4061.0	3414.6	2828.0	2386.4	2098.1	1945.0	1885.3	1879.4
20°	5630.1	5305.9	4540.2	3740.8	3014.9	2438.2	2038.5	1823.7	1720.3	1670.5	1668.5
22.5°	5622.1	5230.3	4333.4	3414.6	2660.9	2137.9	1807.7	1656.6	1591.0	1557.2	1557.2
25°	5642.0	5176.6	4116.6	3104.4	2346.7	1881.3	1648.6	1545.3	1507.4	1489.6	1483.6
27.5°	5703.6	5152.8	3901.8	2794.1	2058.4	1706.3	1541.3	1469.7	1441.8	1427.9	1429.9
30°	5821.0	5150.8	3691.1	2487.9	1843.6	1573.0	1455.8	1406.0	1384.1	1376.2	1374.2
32.5°	6009.9	5194.5	3484.2	2235.3	1662.5	1461.7	1376.2	1340.4	1330.5	1324.5	1322.5
35°	6330.1	5317.8	3279.4	2004.6	1523.3	1362.3	1300.6	1282.7	1268.8	1274.8	1276.8
37.5°	6761.6	5530.6	3084.5	1823.7	1417.9	1288.7	1237.0	1221.1	1213.1	1219.1	1225.1
40°	7340.3	5836.9	2921.5	1678.4	1342.4	1227.0	1181.3	1167.4	1159.4	1169.3	1171.4
42.5°	7978.7	6190.9	2786.2	1565.1	1280.8	1175.4	1131.6	1115.7	1109.7	1115.7	1117.7
45°	8635.0	6602.6	2716.6	1483.6	1229.0	1137.5	1091.8	1073.9	1059.9	1056.0	1062.0
47.5°	9281.4	6960.5	2714.6	1433.8	1187.3	1103.7	1054.0	1034.1	1016.3	1006.3	1004.3
50°	9808.3	7244.9	2762.3	1412.0	1151.5	1066.0	1016.3	996.4	972.5	952.6	956.6
52.5°	10206.1	7429.8	2784.2	1402.0	1131.6	1026.2	976.5	958.5	930.8	904.8	904.8
55°	10462.6	7473.6	2730.5	1392.1	1115.7	984.4	930.8	914.8	887.0	861.1	861.1
57.5°	10550.1	7338.4	2537.6	1368.2	1099.7	948.6	884.9	871.1	849.2	823.3	819.3
60°	10347.3	6880.9	2199.5	1296.6	1067.9	910.9	835.2	829.3	821.4	799.4	797.5
62.5°	9565.8	5910.5	1831.6	1203.2	1014.2	871.1	789.5	799.4	805.4	793.5	791.5
65°	8265.1	4798.8	1565.1	1073.9	942.7	815.3	739.8	765.6	781.6	781.6	777.6
67.5°	6704.0	3685.1	1318.5	962.5	853.2	739.8	684.1	704.0	716.0	712.0	721.9
70°	4764.9	2495.8	1073.9	835.2	739.8	654.3	612.5	612.5	604.6	600.6	600.6
72.5°	2310.9	1425.9	871.1	698.0	630.4	558.8	525.0	511.1	495.2	493.2	483.3
73°	1931.0	1278.7	831.3	672.2	604.6	544.9	507.1	485.2	475.3	467.4	465.3
75°	1175.4	970.5	694.1	566.8	515.1	469.3	435.5	415.6	405.7	399.7	397.8
77.5°	773.6	723.9	538.9	433.5	393.8	365.9	352.0	332.1	326.1	318.2	318.2
80°	576.8	552.9	385.8	306.2	282.4	258.5	254.6	250.6	234.7	224.7	220.7
82.5°	371.9	393.8	262.5	204.8	179.0	159.1	161.1	167.0	151.1	137.3	133.3
85°	264.5	284.4	159.1	93.5	75.6	65.6	73.6	65.6	67.7	53.7	43.8
87.5°	43.8	75.6	27.9	11.9	6.0	4.0	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)