

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: P459496

Luminaire Tested: **GALN-SA9B-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459496
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-SA9B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 47948 lumens
Efficiency: N/A
Efficacy: 131.7 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

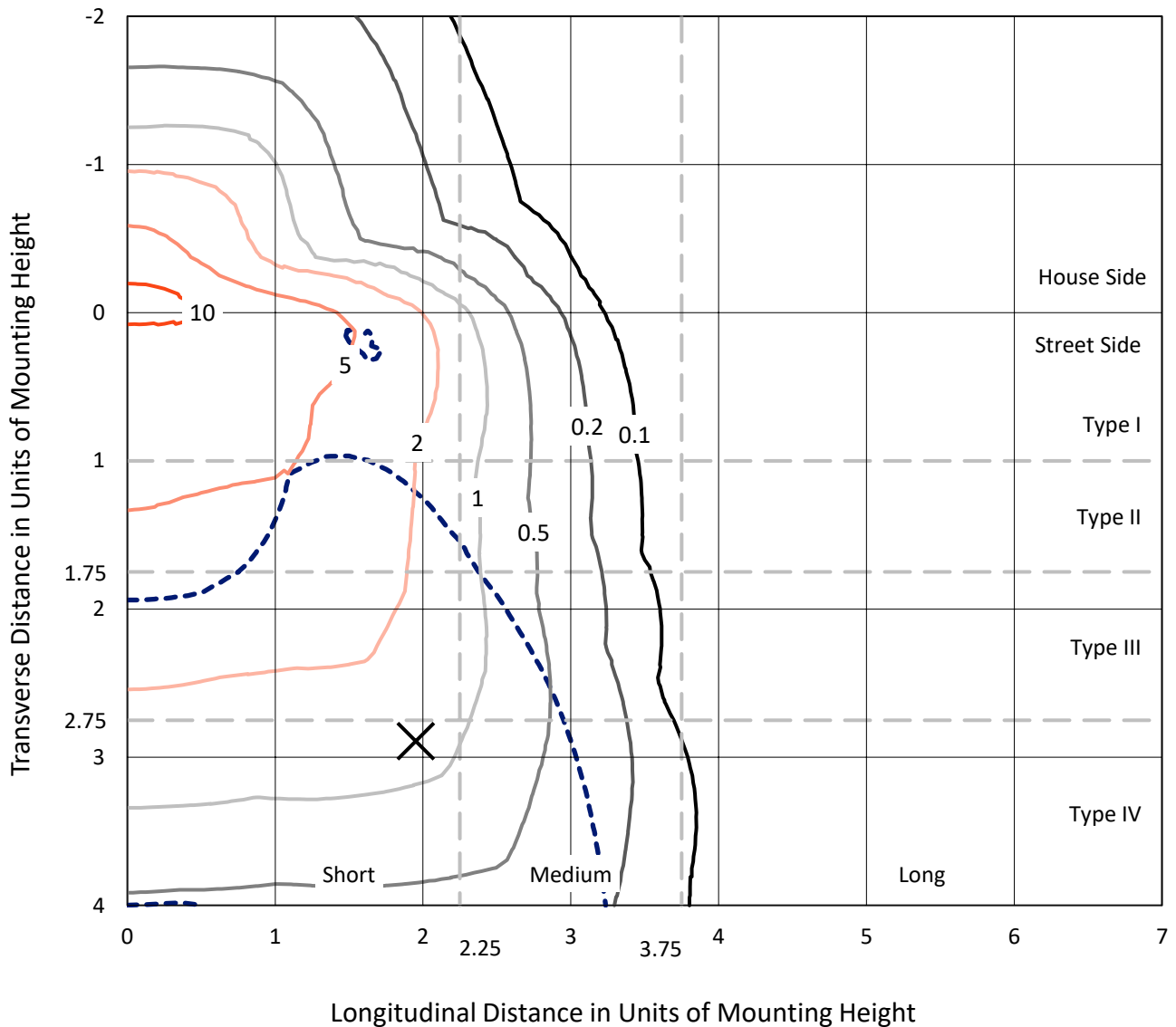
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459496
 CATALOG NUMBER: GALN-SA9B-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

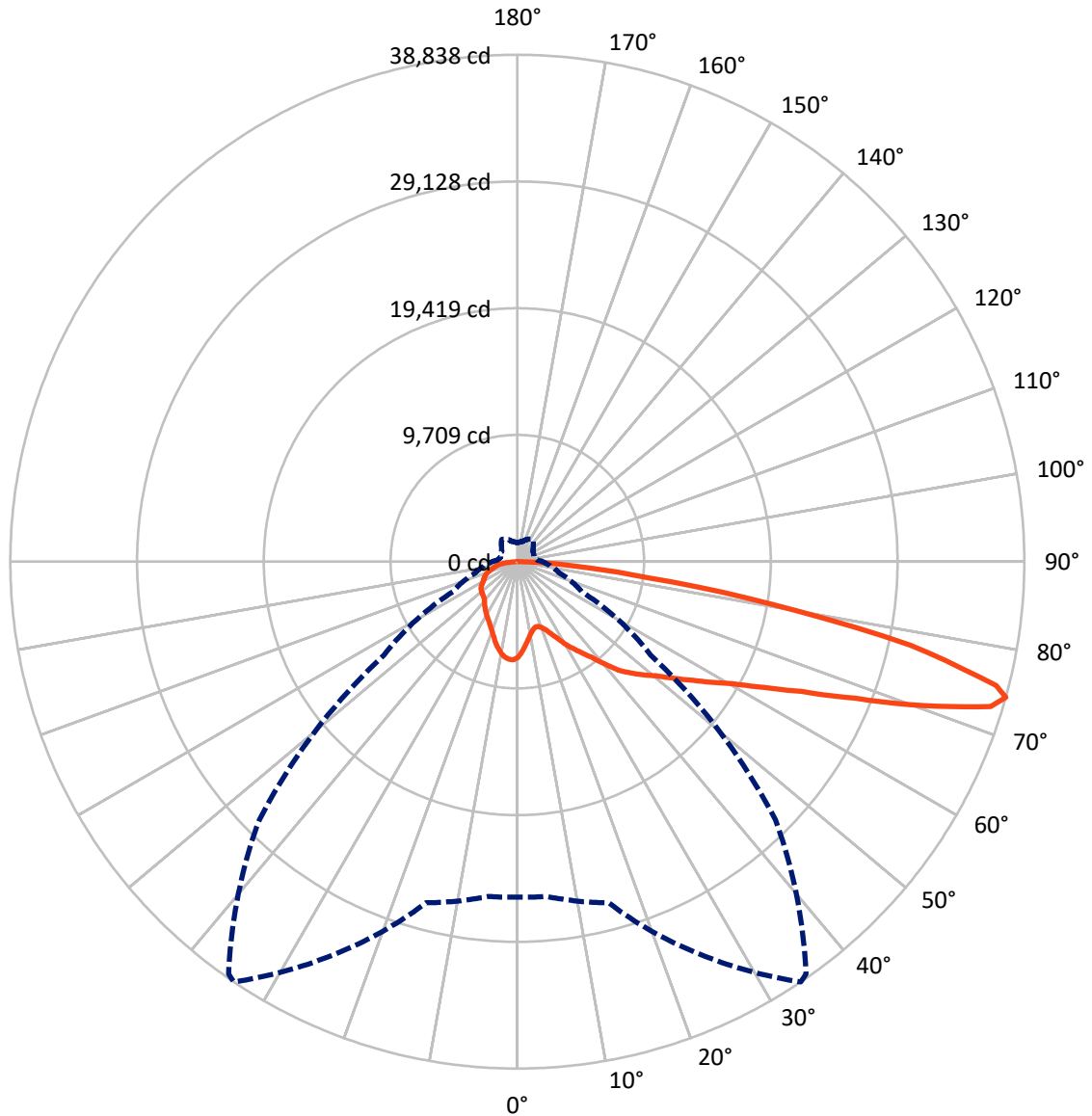
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P459496
CATALOG NUMBER: GALN-SA9B-735-U-T4FT

Luminous Intensity Polar Plot



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



REPORT NUMBER: P459496
 CATALOG NUMBER: GALN-SA9B-735-U-T4FT

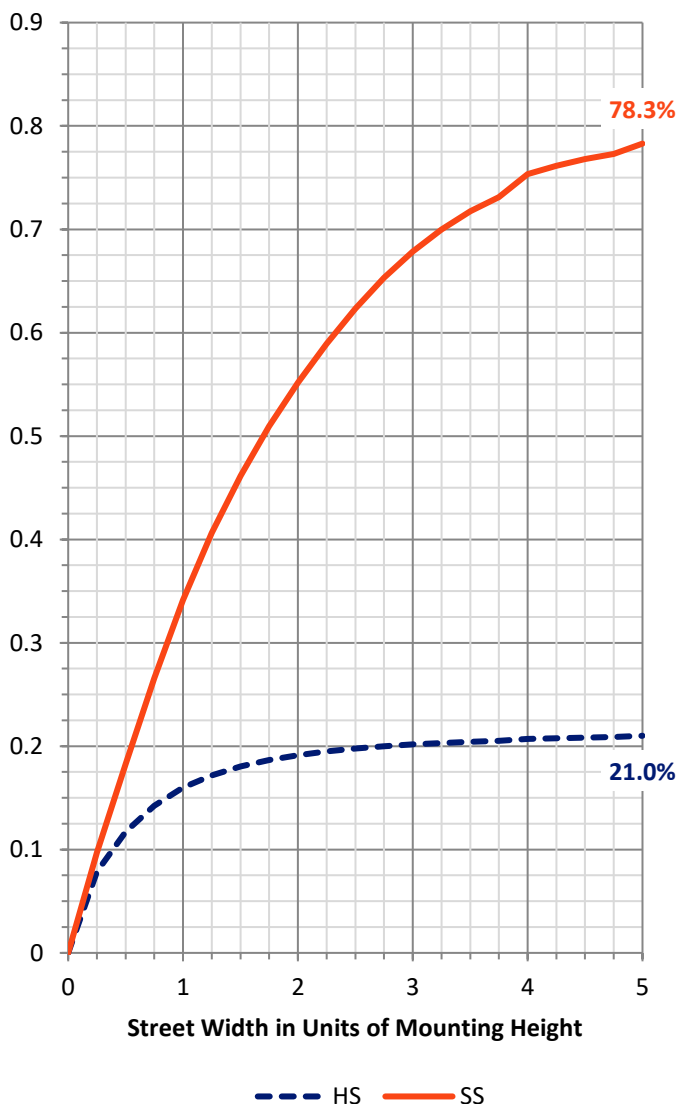
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10203.7	0.0	10203.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	37744.3	0.0	37744.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	47948.0	0.0	47948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.8	1.4
10°-20°	1822.6	3.8
20°-30°	3004.9	6.3
30°-40°	4501.0	9.4
40°-50°	6543.3	13.6
50°-60°	9139.4	19.1
60°-70°	11442.1	23.9
70°-80°	9461.7	19.7
80°-90°	1367.1	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°	47948.0	100.0
0°-180°	47948.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459496

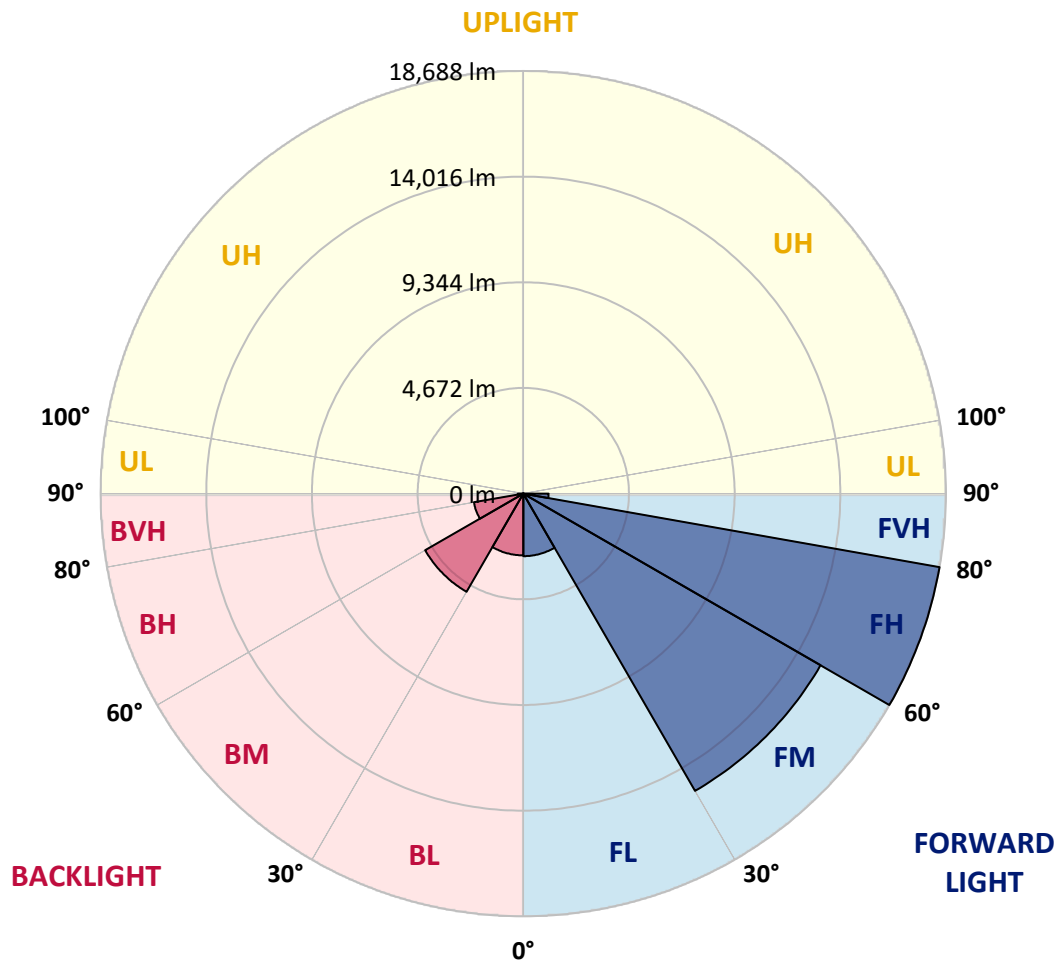
CATALOG NUMBER: GALN-SA9B-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2764.0	5.8			
FM (30°-60°)	15172.7	31.6			
FH (60°-80°)	18687.6	39.0			G5
FVH (80°-90°)	1120.0	2.3			G5
BL (0°-30°)	2729.3	5.7	B4/5000		
BM (30°-60°)	5011.0	10.5	B4/8500		
BH (60°-80°)	2216.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	247.1	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: P459496

CATALOG NUMBER: GALN-SA9B-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7
2.5°	6765.5	6800.1	6818.7	6885.1	6901.0	6922.3	6978.1	7052.4	7148.1	7233.1	7307.4
5°	6202.4	6255.5	6287.4	6345.9	6460.1	6470.7	6619.5	6789.5	6983.4	7164.0	7312.7
7.5°	5668.5	5726.9	5753.5	5859.8	6011.2	6035.1	6252.9	6521.2	6845.2	7118.8	7347.3
10°	5267.4	5296.6	5355.1	5434.8	5615.4	5631.3	5915.5	6274.1	6693.8	7097.6	7405.7
12.5°	5049.6	5065.5	5078.8	5163.8	5341.8	5365.7	5663.2	6069.6	6574.3	7113.5	7501.3
15°	5081.5	5086.8	5028.3	5044.3	5187.7	5222.2	5517.1	5934.1	6499.9	7153.4	7644.8
17.5°	5349.8	5331.2	5187.7	5113.3	5214.3	5230.2	5487.9	5881.0	6465.4	7227.7	7793.5
20°	5772.1	5745.5	5498.5	5333.8	5392.3	5405.5	5583.5	5920.9	6499.9	7349.9	8024.6
22.5°	6298.0	6287.4	5912.9	5713.7	5711.0	5711.0	5804.0	6064.3	6603.5	7517.3	8266.3
25°	7033.8	6978.1	6489.3	6231.6	6159.9	6154.6	6144.0	6300.7	6736.3	7695.2	8553.2
27.5°	7788.2	7692.6	7257.0	6861.2	6707.1	6688.5	6619.5	6635.4	6906.3	7897.1	8879.9
30°	8465.6	8404.5	7995.4	7557.1	7373.8	7331.3	7140.1	7052.4	7190.6	8261.0	9400.6
32.5°	8983.5	8946.4	8627.6	8229.2	7958.2	7950.2	7671.3	7599.6	7634.2	8702.0	9995.6
35°	9403.2	9416.5	9254.5	8909.2	8598.4	8553.2	8367.3	8277.0	8176.0	9339.5	10744.7
37.5°	9977.0	10006.2	9995.6	9698.1	9318.2	9328.9	9286.4	9137.6	8869.3	10051.4	11576.1
40°	10609.2	10630.4	10627.8	10513.6	10314.3	10325.0	10309.0	10139.0	9737.9	10957.2	12500.5
42.5°	11483.1	11382.2	11119.2	11233.4	11350.3	11400.8	11509.7	11347.6	10797.8	11924.0	13369.1
45°	12460.6	12269.4	11674.4	11727.5	12160.5	12256.1	12856.4	12633.3	11948.0	13034.4	14391.7
47.5°	13076.9	12888.3	12386.2	12375.6	12949.4	13042.3	14104.9	14022.5	12994.5	14232.4	15640.2
50°	13626.7	13600.2	13034.4	13169.8	13730.3	13868.4	15464.9	15387.8	14038.4	15645.5	17000.2
52.5°	14442.2	14227.0	13775.5	14054.4	14795.5	14976.1	16814.3	16588.5	14997.4	16893.9	18320.4
55°	14808.8	14758.3	14731.7	14973.5	15990.8	16121.0	18126.5	17608.5	15815.5	17951.1	19324.4
57.5°	15788.9	15696.0	15958.9	16123.6	17398.6	17597.9	19497.1	18673.7	16532.7	18790.5	19813.2
60°	17058.6	17008.2	17249.9	17547.4	18971.2	19274.0	21059.0	19582.1	17109.1	19212.9	19544.9
62.5°	18955.2	18949.9	18904.8	19542.3	21199.8	21478.7	22852.0	20466.6	17199.4	18896.8	18158.3
65°	21675.3	21579.6	21186.5	21882.4	23972.9	24299.7	24719.4	20960.7	16654.9	17273.8	15289.6
67.5°	24520.1	24514.8	24196.1	25099.2	27954.7	28292.1	27054.2	20851.8	15143.5	13993.3	10858.9
70°	26878.9	26764.7	27171.1	29577.7	33041.5	33432.0	29096.9	19568.8	12062.2	9241.2	6452.1
72.5°	27444.7	27450.0	28294.7	33030.9	37926.4	37987.5	29832.7	15860.7	8072.4	5097.4	3227.4
74°	25702.2	25747.3	27056.9	33203.5	38837.5	38561.2	27952.0	12465.9	5458.7	3328.3	2326.9
75°	23460.3	23176.1	25070.0	32053.3	37891.9	37594.3	25750.0	10003.6	4165.0	2658.9	2037.4
77.5°	12543.0	12832.5	15754.4	23919.8	30783.6	30441.0	17459.7	4797.2	2249.9	1851.4	1466.3
80°	4465.2	4924.7	6922.3	12516.4	19736.2	19842.4	8332.8	2199.4	1583.1	1365.3	1035.9
82.5°	1822.2	1872.7	2972.4	5554.3	10022.1	10117.8	3402.7	1306.9	1131.6	940.3	618.9
85°	711.9	733.1	1314.9	2496.9	4276.6	4555.5	1176.7	690.6	695.9	539.2	316.1
87.5°	239.1	270.9	539.2	831.4	1453.0	1423.8	342.7	204.5	249.7	233.8	98.3
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: P459496
 CATALOG NUMBER: GALN-SA9B-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7	7320.7
2.5°	7344.6	7395.1	7429.6	7466.8	7501.3	7512.0	7504.0	7527.9	7530.6	7533.2	7535.9
5°	7387.1	7456.2	7522.6	7559.8	7575.7	7562.4	7517.3	7493.4	7472.1	7456.2	7461.5
7.5°	7445.6	7543.8	7604.9	7620.9	7578.4	7517.3	7405.7	7318.1	7262.3	7225.1	7222.4
10°	7535.9	7631.5	7682.0	7636.8	7519.9	7371.2	7195.9	7031.2	6906.3	6869.1	6866.5
12.5°	7650.1	7759.0	7756.3	7623.5	7419.0	7153.4	6869.1	6677.9	6507.9	6422.9	6457.4
15°	7798.8	7881.2	7804.2	7565.1	7241.0	6877.1	6526.5	6266.2	6074.9	5984.6	5989.9
17.5°	7971.5	8043.2	7838.7	7461.5	6991.3	6523.8	6117.4	5870.4	5719.0	5652.6	5647.3
20°	8186.7	8207.9	7838.7	7280.9	6669.9	6112.1	5724.3	5551.6	5466.6	5432.1	5442.7
22.5°	8417.8	8375.3	7796.2	7025.9	6247.6	5681.8	5421.5	5344.4	5301.9	5296.6	5301.9
25°	8678.1	8558.5	7708.5	6680.5	5806.6	5309.9	5158.5	5171.8	5179.7	5179.7	5198.3
27.5°	8996.8	8757.8	7562.4	6244.9	5291.3	4964.6	4922.1	5015.1	5057.6	5065.5	5078.8
30°	9416.5	8975.6	7320.7	5700.4	4853.0	4653.8	4728.2	4853.0	4900.8	4930.1	4924.7
32.5°	9915.9	9214.6	6994.0	5155.8	4499.7	4436.0	4526.3	4653.8	4706.9	4722.9	4701.6
35°	10502.9	9485.6	6563.7	4645.8	4191.6	4228.8	4335.1	4374.9	4422.7	4422.7	4433.3
37.5°	11135.1	9703.4	6037.7	4178.3	3952.5	4088.0	4165.0	4127.9	4106.6	4080.0	4093.3
40°	11778.0	9865.4	5355.1	3716.1	3713.5	3941.9	3963.2	3856.9	3771.9	3745.4	3732.1
42.5°	12338.4	9966.4	4738.8	3357.5	3487.7	3798.5	3814.4	3644.4	3508.9	3429.3	3402.7
45°	12999.8	10083.2	4135.8	3060.0	3277.9	3684.3	3724.1	3495.7	3296.4	3129.1	3086.6
47.5°	13905.6	10348.9	3660.4	2828.9	3126.4	3612.5	3668.3	3373.5	3110.5	2892.7	2858.2
50°	14928.3	10712.8	3291.1	2672.2	3009.6	3548.8	3617.9	3248.6	2937.8	2696.1	2669.6
52.5°	15866.0	10909.3	2972.4	2531.4	2895.3	3431.9	3551.4	3158.3	2767.8	2499.6	2475.7
55°	16378.6	10590.6	2658.9	2393.3	2738.6	3280.5	3458.5	3033.5	2603.2	2396.0	2361.4
57.5°	16447.7	9931.8	2374.7	2244.6	2573.9	3094.6	3285.8	2882.1	2496.9	2324.2	2295.0
60°	15913.8	8949.0	2154.2	2122.4	2406.6	2884.7	3091.9	2749.3	2388.0	2244.6	2215.3
62.5°	14585.6	7881.2	2000.2	2010.8	2236.6	2664.3	2948.5	2621.7	2284.4	2156.9	2130.3
65°	12301.2	6505.2	1851.4	1896.6	2085.2	2491.6	2818.3	2515.5	2180.8	2090.5	2066.6
67.5°	8545.3	4696.3	1729.2	1777.1	1941.7	2316.3	2666.9	2401.3	2063.9	2016.1	1978.9
70°	4730.8	2890.0	1585.8	1641.6	1793.0	2119.7	2496.9	2228.6	1893.9	1872.7	1819.6
72.5°	2486.3	1840.8	1423.8	1484.9	1591.1	1867.4	2236.6	2040.0	1726.6	1636.3	1567.2
74°	1941.7	1508.8	1314.9	1378.6	1450.3	1718.6	2082.5	1904.6	1607.1	1500.8	1447.7
75°	1692.1	1344.1	1221.9	1304.2	1368.0	1617.7	1963.0	1808.9	1540.6	1439.7	1391.9
77.5°	1195.3	1006.7	998.8	1097.0	1131.6	1418.5	1769.1	1646.9	1373.3	1267.0	1221.9
80°	839.4	754.4	791.6	852.7	900.5	1253.8	1641.6	1423.8	1126.3	1001.4	985.5
82.5°	547.2	494.1	565.8	621.6	637.5	924.4	1325.5	1081.1	820.8	666.7	618.9
85°	252.3	247.0	324.1	316.1	313.4	451.6	786.3	632.2	472.8	353.3	332.0
87.5°	63.8	61.1	79.7	66.4	79.7	69.1	71.7	18.6	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)