

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: P459463

Luminaire Tested: **GALN-SA9A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459463
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-SA9A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38298 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

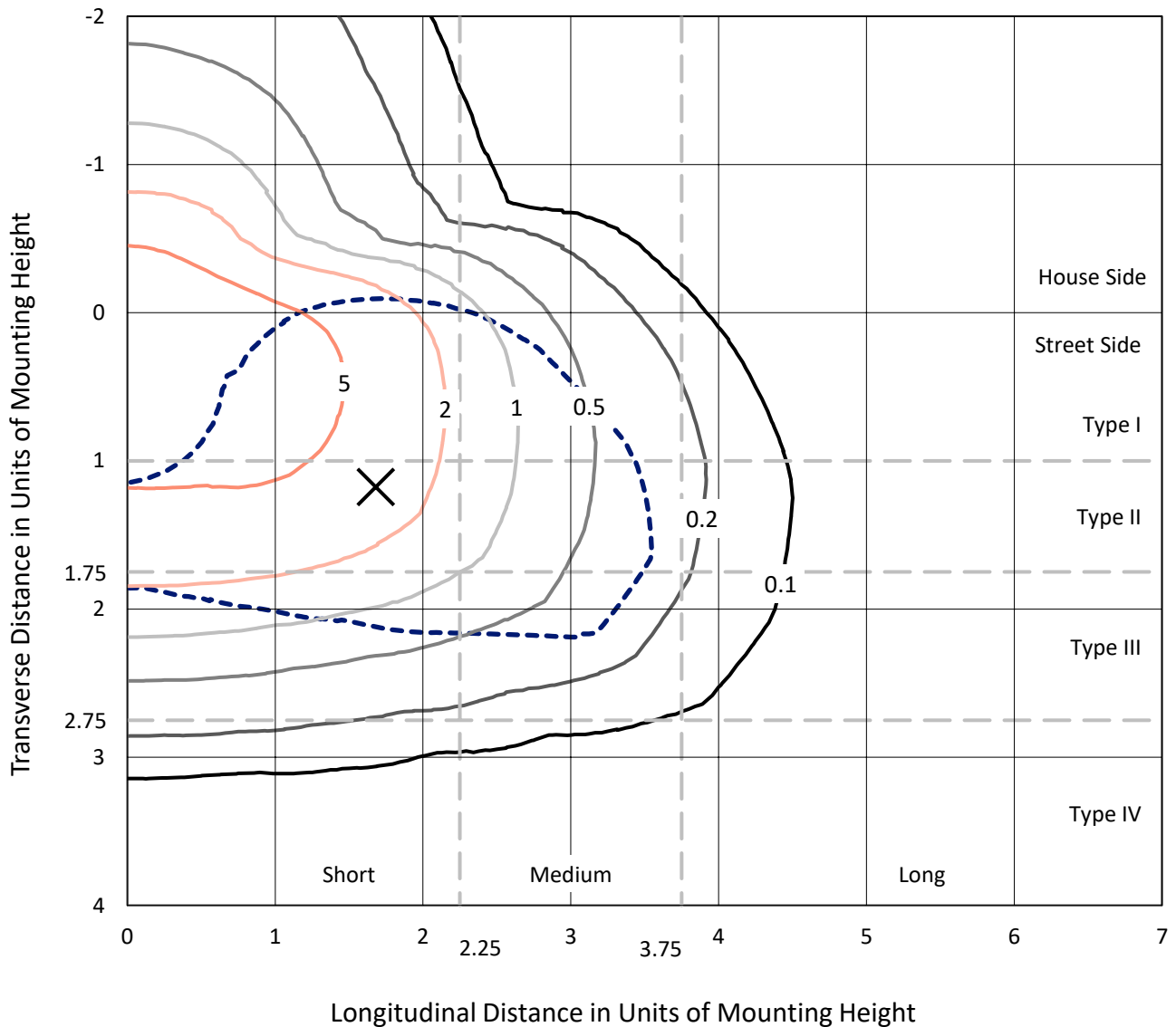
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

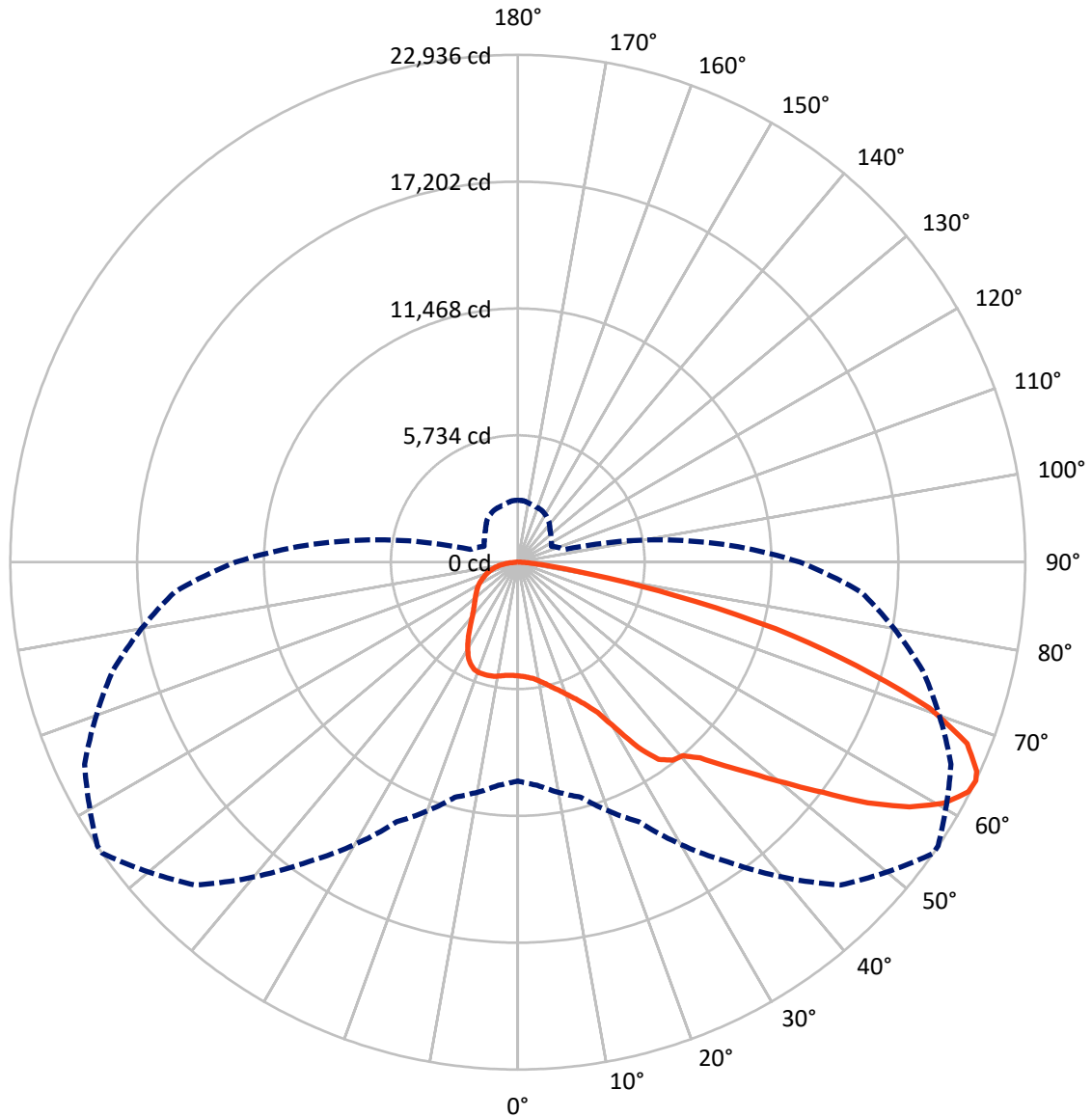
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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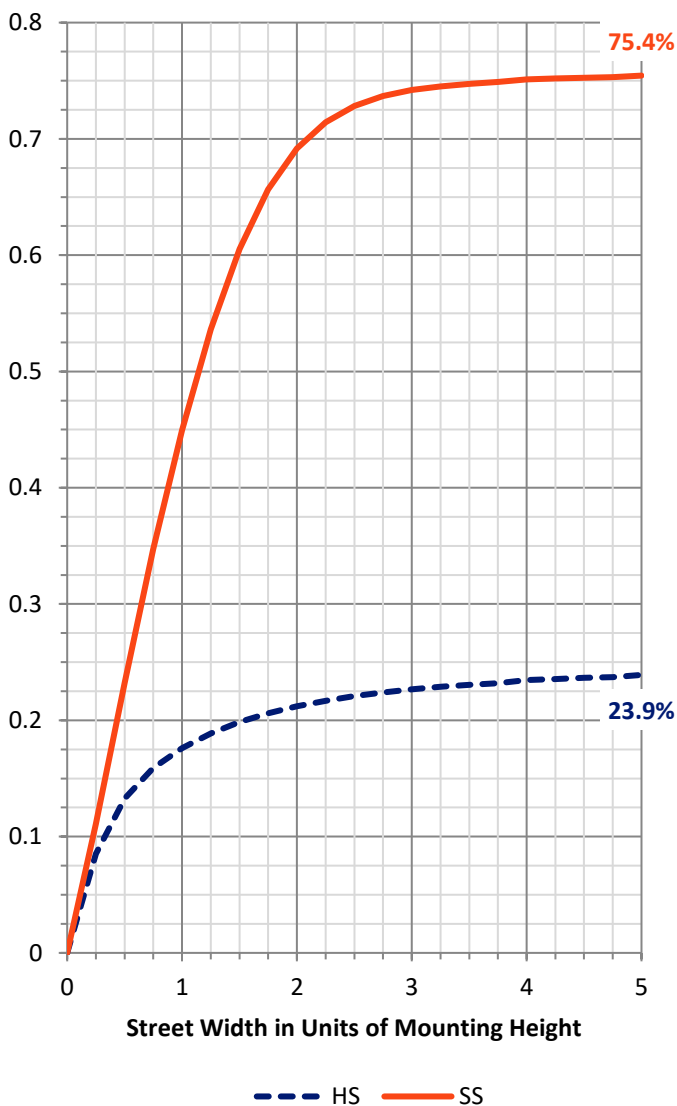
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9303.3	0.0	9303.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	28994.7	0.0	28994.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	38298.0	0.0	38298.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.8	1.3
10°-20°	1577.1	4.1
20°-30°	2807.7	7.3
30°-40°	4319.9	11.3
40°-50°	6123.9	16.0
50°-60°	8864.2	23.1
60°-70°	9173.5	24.0
70°-80°	4296.0	11.2
80°-90°	636.0	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°	38298.0	100.0
0°-180°	38298.0	100.0



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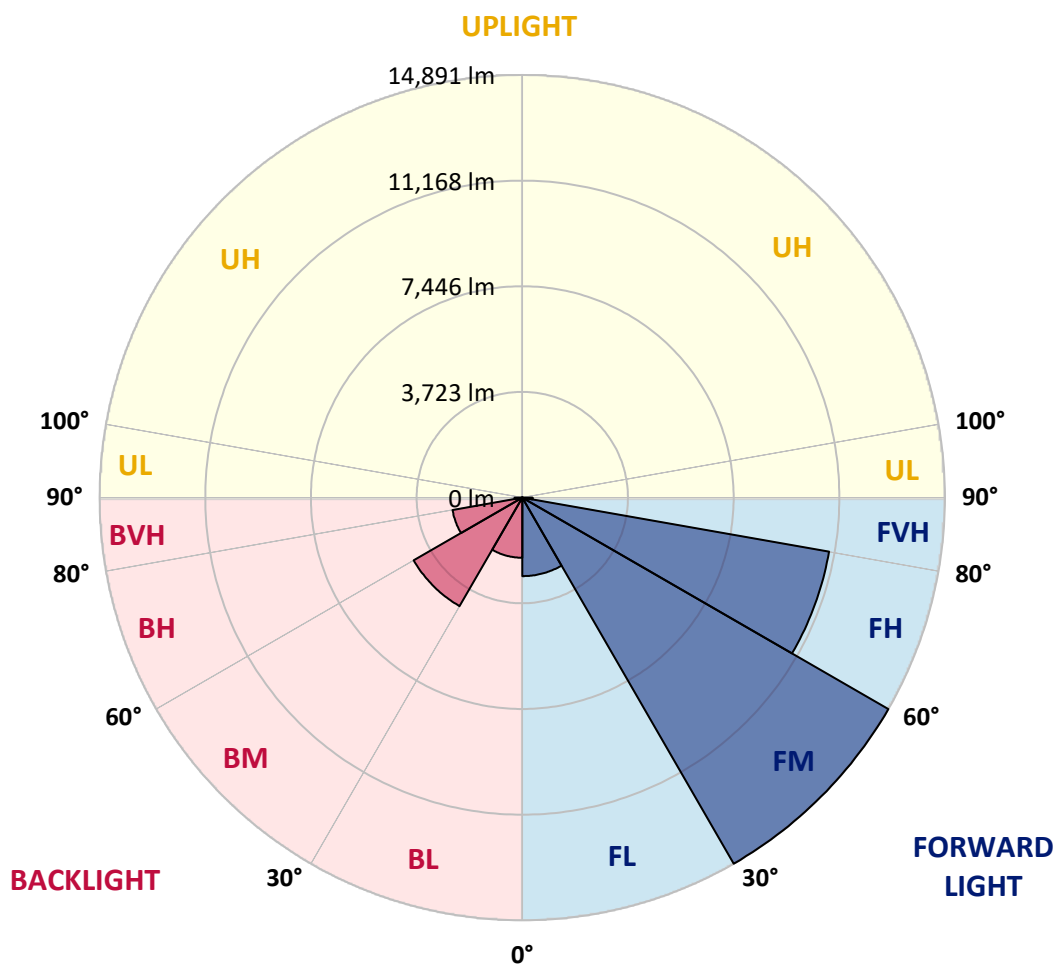
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2765.7	7.2			
FM	(30°-60°)	14891.3	38.9			
FH	(60°-80°)	10973.5	28.7			G4/12000
FVH	(80°-90°)	364.1	1.0			G3/500
BL	(0°-30°)	2118.9	5.5	B3/2500		
BM	(30°-60°)	4416.7	11.5	B3/5000		
BH	(60°-80°)	2495.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	271.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4
2.5°	5196.1	5193.9	5200.3	5193.9	5198.2	5183.3	5176.9	5181.1	5174.7	5164.1	5144.8
5°	5260.1	5258.0	5260.1	5251.6	5255.8	5247.3	5232.4	5236.6	5226.0	5202.5	5174.7
7.5°	5369.0	5360.5	5360.5	5358.3	5349.8	5337.0	5326.3	5322.0	5311.4	5281.5	5238.8
10°	5509.9	5509.9	5512.0	5494.9	5505.6	5482.1	5471.5	5469.3	5433.0	5394.6	5334.8
12.5°	5695.6	5706.3	5699.9	5691.3	5687.1	5678.5	5642.2	5650.8	5610.2	5544.0	5471.5
15°	5926.2	5943.3	5932.6	5928.3	5917.6	5885.6	5870.7	5864.3	5810.9	5714.8	5618.8
17.5°	6231.4	6210.1	6201.6	6190.9	6146.1	6122.6	6097.0	6092.7	6045.7	5932.6	5783.1
20°	6498.3	6528.2	6511.1	6500.4	6455.6	6410.8	6391.6	6385.2	6344.6	6220.8	5981.7
22.5°	6816.4	6822.8	6829.2	6803.6	6782.2	6748.1	6713.9	6703.2	6688.3	6560.2	6267.7
25°	7155.8	7181.4	7160.1	7134.5	7108.8	7106.7	7138.7	7134.5	7128.1	7004.2	6647.7
27.5°	7708.7	7732.2	7738.6	7710.9	7612.7	7621.2	7693.8	7717.3	7815.5	7610.5	7136.6
30°	8020.4	8043.9	8097.3	8201.9	8357.7	8494.3	8669.4	8722.7	8816.7	8430.3	7717.3
32.5°	8212.5	8221.1	8317.1	8511.4	8978.9	9489.1	9965.2	9984.4	10044.2	9501.9	8248.8
35°	8515.7	8522.1	8598.9	8812.4	9361.0	10210.7	10947.2	10970.7	10921.6	9835.0	8496.5
37.5°	8889.3	8906.3	8955.4	9132.6	9788.0	10814.8	11354.9	11337.9	10902.4	10099.7	8934.1
40°	9433.6	9433.6	9376.0	9615.1	10238.4	11160.7	11498.0	11468.1	11352.8	10866.1	9600.1
42.5°	9914.0	9905.4	10042.0	10204.3	10802.0	11694.4	12097.8	12146.9	12336.9	11828.9	10358.0
45°	10539.5	10577.9	10654.7	10949.3	11760.5	12605.9	13126.8	13173.8	13442.8	12962.4	11243.9
47.5°	11171.3	11184.2	11425.4	11818.2	12947.5	13842.0	14268.9	14345.8	14591.3	14288.1	12198.2
50°	11619.7	11741.3	12127.7	12746.8	14170.7	15349.1	15682.2	15774.0	16207.3	15731.3	13310.4
52.5°	12093.6	12213.1	12684.9	13628.5	15575.4	16890.4	17300.3	17362.2	17812.7	17191.5	14448.2
55°	12499.2	12610.2	13146.0	14409.8	16694.0	18463.8	19206.7	19134.1	19349.7	18316.5	15325.6
57.5°	12565.4	12655.0	13329.6	14909.4	17535.2	19813.0	20878.2	20920.9	20671.2	19157.6	16049.3
60°	12053.0	12236.6	13011.5	14856.0	17913.0	20752.3	22124.9	22154.8	21446.1	19588.8	16337.5
62.5°	11145.7	11126.5	12063.7	13997.8	17383.6	20965.8	22859.3	22827.3	21749.2	19381.7	16057.9
64°	9892.6	10123.2	10998.4	12943.2	16529.7	20637.0	22936.2	22919.1	21604.1	18950.5	15581.8
65°	9128.4	9115.5	9980.1	12080.8	15680.0	20141.7	22799.5	22776.1	21300.9	18564.1	15212.5
67.5°	6590.1	6620.0	7473.9	9322.6	12746.8	18205.5	21909.3	21821.8	20105.4	17283.2	13807.8
70°	3992.1	4009.1	4679.5	6184.5	9149.7	14717.2	19748.9	19753.2	18275.9	15370.5	11752.0
72.5°	2102.8	2147.6	2416.6	3511.7	5556.9	10326.0	16021.6	16401.6	15690.7	13118.3	9284.2
75°	1169.9	1176.3	1366.3	1731.3	2835.0	5778.9	12042.3	12151.2	12422.3	10558.7	6865.5
77.5°	892.3	905.2	964.9	1118.6	1543.5	2679.2	7288.2	7834.7	8754.8	7444.0	3917.3
80°	723.7	736.5	787.7	879.5	1026.8	1270.2	3385.8	3680.4	4685.9	3304.7	1528.5
82.5°	563.6	555.0	621.2	681.0	747.2	751.4	1389.7	1537.0	1908.5	1421.8	661.8
85°	418.4	418.4	471.8	459.0	482.5	439.8	612.7	676.7	764.3	604.1	307.4
87.5°	166.5	183.6	309.5	277.5	215.6	172.9	226.3	239.1	264.7	237.0	128.1
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°	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4	5138.4
2.5°	5147.0	5153.4	5138.4	5127.8	5123.5	5117.1	5110.7	5112.8	5121.4	5129.9	5127.8
5°	5172.6	5174.7	5149.1	5136.3	5127.8	5119.2	5119.2	5125.6	5142.7	5155.5	5155.5
7.5°	5236.6	5236.6	5200.3	5176.9	5164.1	5149.1	5144.8	5147.0	5159.8	5176.9	5179.0
10°	5337.0	5328.4	5281.5	5245.2	5221.7	5185.4	5153.4	5136.3	5142.7	5153.4	5153.4
12.5°	5458.7	5435.2	5375.4	5326.3	5268.7	5200.3	5134.2	5100.0	5097.9	5108.5	5104.3
15°	5588.9	5563.3	5480.0	5390.3	5290.0	5189.7	5110.7	5061.6	5023.2	5012.5	5036.0
17.5°	5740.4	5687.1	5571.8	5448.0	5298.5	5168.3	5044.5	4944.2	4875.9	4856.6	4863.0
20°	5924.0	5853.6	5697.8	5503.5	5292.1	5091.5	4899.3	4764.8	4653.8	4619.7	4624.0
22.5°	6178.1	6056.4	5828.0	5531.2	5238.8	4946.3	4679.5	4504.4	4369.9	4316.5	4348.6
25°	6466.3	6333.9	5951.8	5524.8	5100.0	4713.6	4419.0	4190.6	4068.9	3989.9	4007.0
27.5°	6863.3	6628.5	6084.1	5467.2	4901.5	4429.7	4088.1	3872.5	3761.5	3720.9	3740.1
30°	7371.4	7010.6	6227.2	5311.4	4587.7	4071.0	3755.1	3614.2	3548.0	3496.8	3513.9
32.5°	7738.6	7279.6	6259.2	5048.8	4248.2	3744.4	3528.8	3424.2	3351.6	3302.5	3313.2
35°	8001.2	7508.1	6244.3	4726.4	3893.9	3475.4	3349.5	3264.1	3146.7	3039.9	3020.7
37.5°	8353.4	7794.1	6135.4	4374.2	3543.7	3294.0	3204.3	3046.3	2877.7	2734.7	2728.3
40°	8893.5	8129.3	5902.7	3960.0	3244.9	3159.5	3050.6	2845.7	2664.2	2548.9	2540.4
42.5°	9450.7	8438.8	5586.7	3524.5	2999.4	3018.6	2886.2	2683.4	2572.4	2497.7	2489.2
45°	10131.7	8774.0	5245.2	3146.7	2817.9	2886.2	2743.2	2625.8	2559.6	2510.5	2497.7
47.5°	10868.2	9117.7	4860.9	2807.2	2664.2	2764.6	2683.4	2630.1	2593.8	2559.6	2544.7
50°	11662.3	9501.9	4500.1	2534.0	2525.5	2638.6	2677.0	2657.8	2636.5	2625.8	2613.0
52.5°	12533.3	9894.7	4197.0	2341.9	2403.8	2548.9	2679.2	2694.1	2694.1	2687.7	2679.2
55°	13122.5	10168.0	3889.6	2186.0	2280.0	2476.4	2674.9	2732.5	2753.9	2745.3	2736.8
57.5°	13558.0	10317.4	3503.2	2051.5	2175.3	2405.9	2651.4	2736.8	2758.1	2768.8	2764.6
60°	13647.7	10178.7	2997.2	1910.6	2062.2	2303.4	2566.0	2672.8	2700.5	2766.7	2773.1
62.5°	13244.2	9751.7	2493.4	1771.9	1923.4	2147.6	2450.7	2600.2	2655.7	2758.1	2768.8
64°	12749.0	9273.5	2213.8	1684.3	1833.8	2060.1	2393.1	2581.0	2653.5	2790.2	2798.7
65°	12386.0	8925.6	2038.7	1628.8	1776.1	2002.4	2361.1	2587.4	2672.8	2839.3	2852.1
67.5°	11049.7	7727.9	1686.5	1498.6	1639.5	1904.2	2367.5	2640.7	2668.5	2858.5	2856.3
70°	9143.3	6152.5	1413.2	1379.1	1507.2	1825.2	2341.9	2555.3	2557.5	2683.4	2653.5
72.5°	6846.3	4547.1	1225.4	1255.3	1359.9	1637.4	2211.6	2440.1	2403.8	2420.9	2391.0
75°	4702.9	3007.9	1054.6	1122.9	1206.2	1447.4	2028.0	2215.9	2158.3	2136.9	2115.6
77.5°	2510.5	1663.0	877.4	992.7	1048.2	1251.0	1769.7	1951.2	1891.4	1808.2	1780.4
80°	1016.2	783.5	706.6	821.9	853.9	1007.6	1473.0	1586.1	1541.3	1396.2	1349.2
82.5°	510.2	469.7	555.0	646.8	649.0	719.4	1095.1	1201.9	1101.6	924.4	883.8
85°	266.8	275.4	382.1	454.7	401.3	388.5	657.5	728.0	668.2	580.7	523.0
87.5°	96.1	111.0	200.7	198.5	140.9	74.7	145.2	70.4	38.4	23.5	29.9
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)