

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: P455171

Luminaire Tested: **GALN-SA6B-750-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455171
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-SA6B-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33461 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

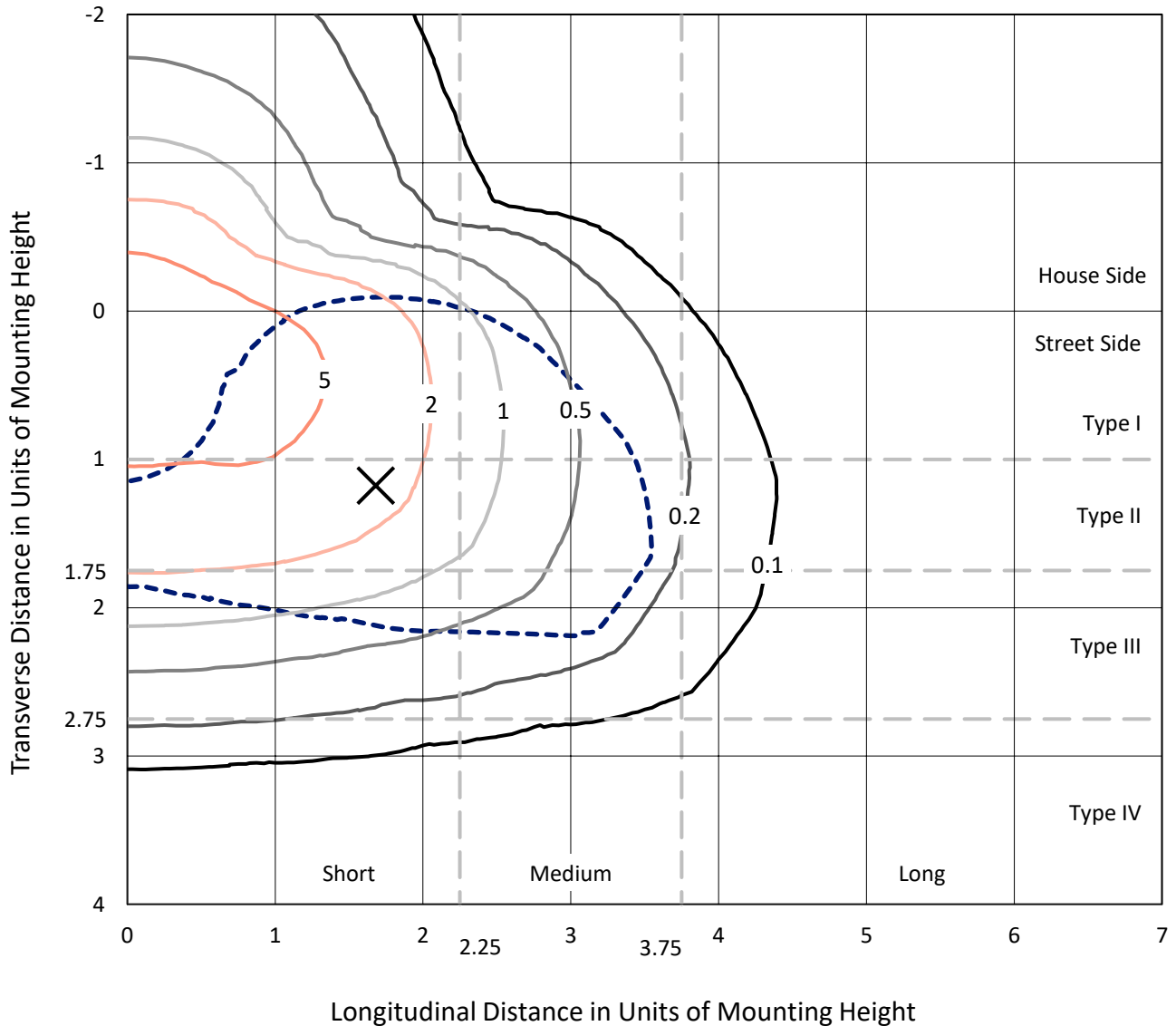
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

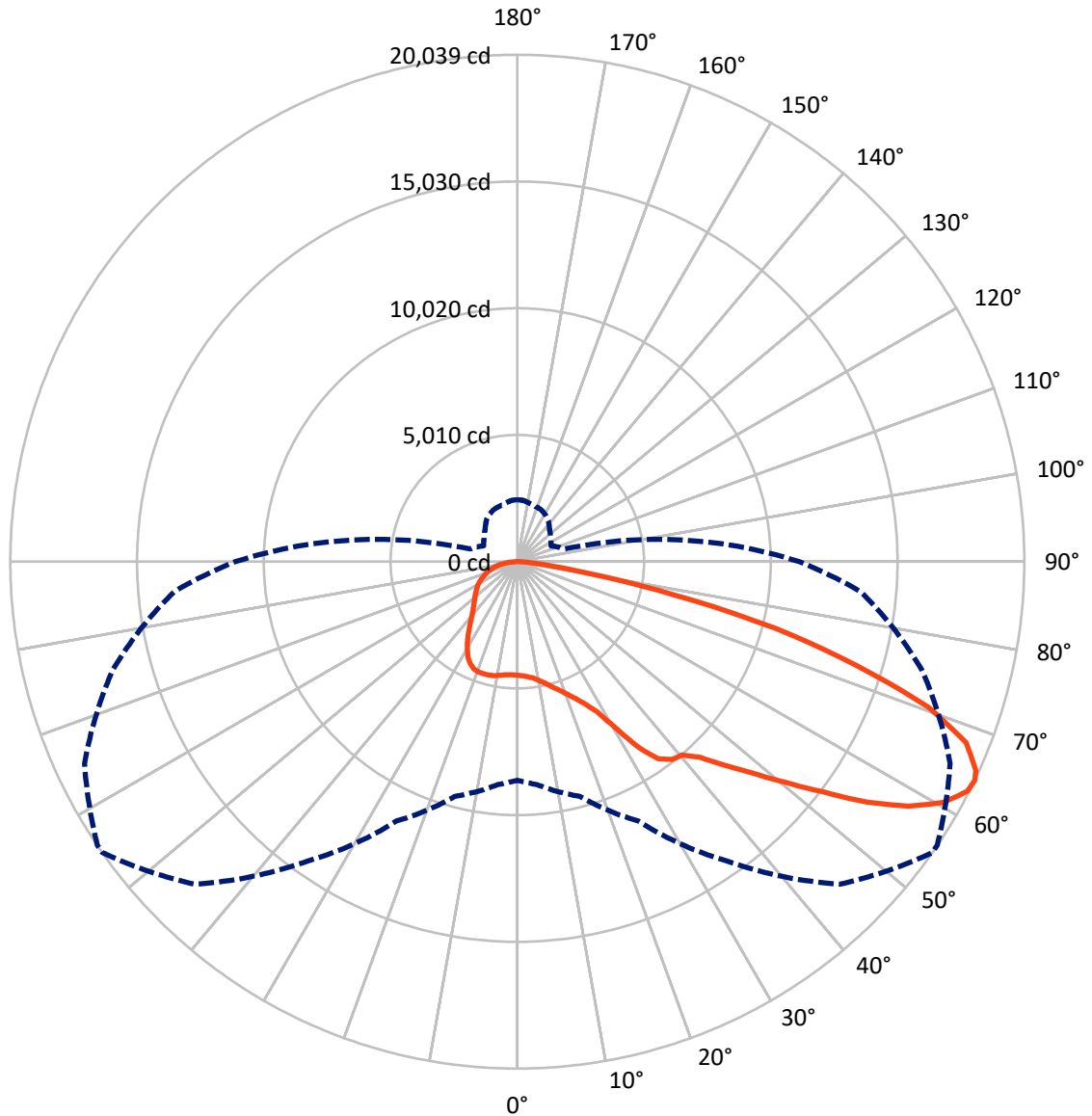
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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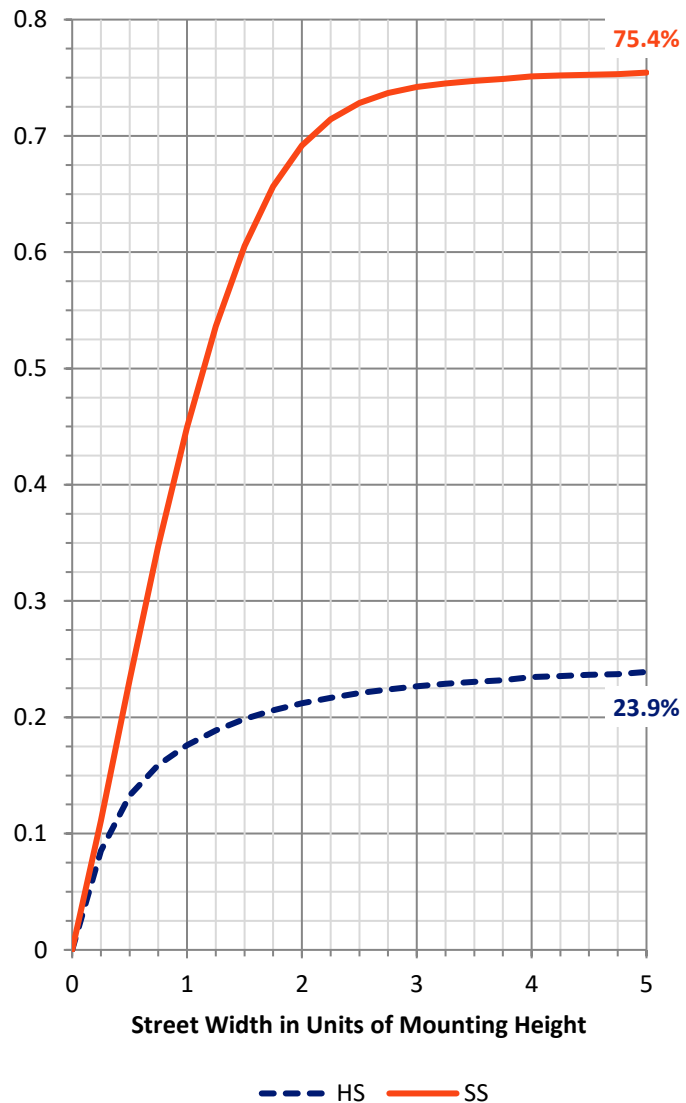
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8128.3	0.0	8128.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	25332.7	0.0	25332.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	33461.0	0.0	33461.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.7	1.3
10°-20°	1377.9	4.1
20°-30°	2453.1	7.3
30°-40°	3774.3	11.3
40°-50°	5350.4	16.0
50°-60°	7744.6	23.1
60°-70°	8014.9	24.0
70°-80°	3753.4	11.2
80°-90°	555.6	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°	33461.0	100.0
0°-180°	33461.0	100.0



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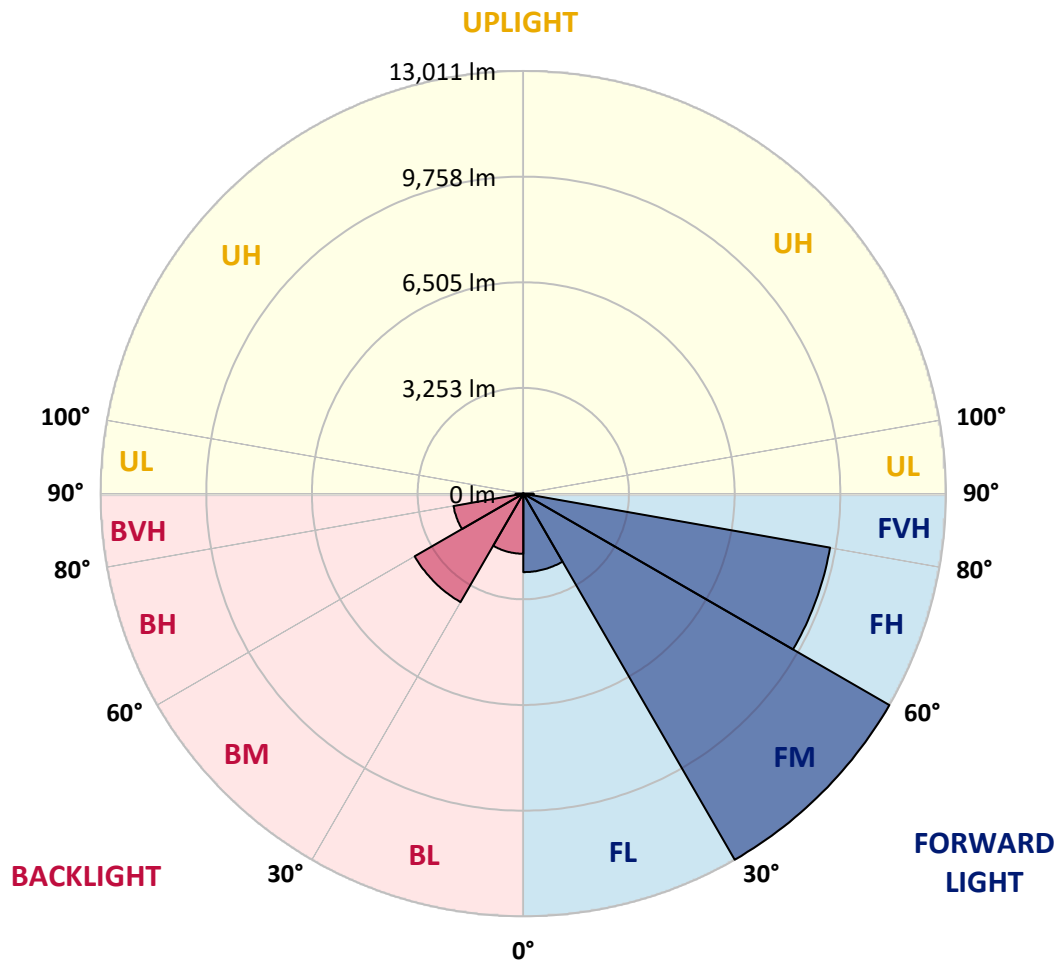
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2416.4	7.2			
FM	(30°-60°)	13010.5	38.9			
FH	(60°-80°)	9587.6	28.7			G4/12000
FVH	(80°-90°)	318.1	1.0			G3/500
BL	(0°-30°)	1851.3	5.5	B3/2500		
BM	(30°-60°)	3858.8	11.5	B3/5000		
BH	(60°-80°)	2180.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	237.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5
2.5°	4539.8	4538.0	4543.5	4538.0	4541.7	4528.6	4523.0	4526.8	4521.2	4511.8	4495.1
5°	4595.8	4593.9	4595.8	4588.3	4592.0	4584.6	4571.5	4575.3	4565.9	4545.4	4521.2
7.5°	4690.9	4683.4	4683.4	4681.6	4674.1	4662.9	4653.6	4649.9	4640.5	4614.4	4577.1
10°	4814.0	4814.0	4815.9	4800.9	4810.3	4789.7	4780.4	4778.6	4746.8	4713.3	4661.1
12.5°	4976.3	4985.6	4980.0	4972.5	4968.8	4961.3	4929.6	4937.1	4901.7	4843.8	4780.4
15°	5177.7	5192.6	5183.3	5179.6	5170.2	5142.3	5129.2	5123.6	5077.0	4993.1	4909.1
17.5°	5444.4	5425.8	5418.3	5409.0	5369.8	5349.3	5326.9	5323.2	5282.2	5183.3	5052.7
20°	5677.6	5703.7	5688.8	5679.4	5640.3	5601.1	5584.3	5578.7	5543.3	5435.1	5226.2
22.5°	5955.5	5961.1	5966.7	5944.3	5925.6	5895.8	5865.9	5856.6	5843.6	5731.7	5476.1
25°	6252.0	6274.4	6255.8	6233.4	6211.0	6209.1	6237.1	6233.4	6227.8	6119.6	5808.1
27.5°	6735.1	6755.6	6761.2	6737.0	6651.2	6658.6	6722.1	6742.6	6828.4	6649.3	6235.3
30°	7007.4	7027.9	7074.6	7166.0	7302.1	7421.5	7574.4	7621.1	7703.1	7365.5	6742.6
32.5°	7175.3	7182.8	7266.7	7436.4	7844.9	8290.7	8706.6	8723.4	8775.6	8301.9	7207.0
35°	7440.1	7445.7	7512.9	7699.4	8178.8	8921.1	9564.6	9585.1	9542.2	8592.8	7423.4
37.5°	7766.6	7781.5	7824.4	7979.2	8551.8	9448.9	9920.8	9905.9	9525.4	8824.1	7805.7
40°	8242.2	8242.2	8191.8	8400.7	8945.3	9751.1	10045.8	10019.7	9919.0	9493.7	8387.7
42.5°	8661.8	8654.4	8773.7	8915.5	9437.7	10217.4	10569.9	10612.8	10778.8	10334.9	9049.8
45°	9208.3	9241.9	9309.0	9566.4	10275.2	11013.8	11468.9	11509.9	11745.0	11325.3	9823.8
47.5°	9760.4	9771.6	9982.4	10325.6	11312.2	12093.7	12466.8	12533.9	12748.4	12483.6	10657.6
50°	10152.1	10258.4	10596.0	11136.9	12381.0	13410.5	13701.5	13781.7	14160.3	13744.4	11629.3
52.5°	10566.2	10670.6	11082.8	11907.2	13608.3	14757.2	15115.3	15169.4	15563.0	15020.2	12623.4
55°	10920.6	11017.5	11485.7	12589.9	14585.6	16131.8	16780.9	16717.5	16905.9	16003.1	13390.0
57.5°	10978.4	11056.7	11646.1	13026.3	15320.5	17310.6	18241.3	18278.6	18060.4	16738.0	14022.3
60°	10530.7	10691.1	11368.2	12979.7	15650.6	18131.3	19330.6	19356.7	18737.5	17114.8	14274.1
62.5°	9738.0	9721.2	10540.1	12229.9	15188.1	18317.8	19972.2	19944.2	19002.3	16933.8	14029.8
64°	8643.2	8844.6	9609.3	11308.5	14442.0	18030.6	20039.4	20024.4	18875.5	16557.1	13613.9
65°	7975.5	7964.3	8719.7	10555.0	13699.6	17597.8	19920.0	19899.5	18610.6	16219.5	13291.2
67.5°	5757.8	5783.9	6529.9	8145.2	11136.9	15906.1	19142.2	19065.7	17566.1	15100.4	12063.9
70°	3487.9	3502.8	4088.4	5403.4	7994.1	12858.5	17254.7	17258.4	15967.7	13429.2	10267.7
72.5°	1837.2	1876.4	2111.4	3068.2	4855.0	9021.8	13998.1	14330.1	13709.0	11461.4	8111.6
75°	1022.1	1027.7	1193.7	1512.7	2476.9	5049.0	10521.4	10616.5	10853.4	9225.1	5998.4
77.5°	779.6	790.8	843.1	977.3	1348.5	2340.8	6367.7	6845.2	7649.0	6503.8	3422.6
80°	632.3	643.5	688.2	768.4	897.1	1109.8	2958.2	3215.5	4094.0	2887.3	1335.5
82.5°	492.4	484.9	542.8	595.0	652.8	656.5	1214.2	1342.9	1667.5	1242.2	578.2
85°	365.6	365.6	412.2	401.0	421.5	384.2	535.3	591.3	667.7	527.8	268.6
87.5°	145.5	160.4	270.4	242.5	188.4	151.1	197.7	208.9	231.3	207.0	111.9
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°	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5	4489.5
2.5°	4496.9	4502.5	4489.5	4480.1	4476.4	4470.8	4465.2	4467.1	4474.5	4482.0	4480.1
5°	4519.3	4521.2	4498.8	4487.6	4480.1	4472.7	4472.7	4478.3	4493.2	4504.4	4504.4
7.5°	4575.3	4575.3	4543.5	4523.0	4511.8	4498.8	4495.1	4496.9	4508.1	4523.0	4524.9
10°	4662.9	4655.5	4614.4	4582.7	4562.2	4530.5	4502.5	4487.6	4493.2	4502.5	4502.5
12.5°	4769.2	4748.7	4696.5	4653.6	4603.2	4543.5	4485.7	4455.9	4454.0	4463.3	4459.6
15°	4883.0	4860.6	4787.9	4709.5	4621.9	4534.2	4465.2	4422.3	4388.7	4379.4	4399.9
17.5°	5015.4	4968.8	4868.1	4759.9	4629.3	4515.6	4407.4	4319.7	4260.0	4243.3	4248.8
20°	5175.8	5114.3	4978.1	4808.4	4623.7	4448.4	4280.6	4163.1	4066.1	4036.2	4040.0
22.5°	5397.8	5291.5	5091.9	4832.6	4577.1	4321.6	4088.4	3935.5	3818.0	3771.4	3799.3
25°	5649.6	5533.9	5200.1	4827.1	4455.9	4118.3	3860.9	3661.3	3555.0	3486.0	3500.9
27.5°	5996.5	5791.3	5315.7	4776.7	4282.4	3870.2	3571.8	3383.4	3286.4	3251.0	3267.8
30°	6440.4	6125.2	5440.7	4640.5	4008.2	3556.9	3280.8	3157.7	3099.9	3055.1	3070.1
32.5°	6761.2	6360.2	5468.7	4411.1	3711.7	3271.5	3083.1	2991.7	2928.3	2885.4	2894.7
35°	6990.6	6559.8	5455.6	4129.5	3402.1	3036.5	2926.4	2851.8	2749.3	2656.0	2639.2
37.5°	7298.4	6809.7	5360.5	3821.7	3096.2	2878.0	2799.6	2661.6	2514.2	2389.3	2383.7
40°	7770.3	7102.6	5157.2	3459.9	2835.1	2760.4	2665.3	2486.3	2327.7	2227.0	2219.5
42.5°	8257.1	7373.0	4881.1	3079.4	2620.6	2637.3	2521.7	2344.5	2247.5	2182.2	2174.8
45°	8852.1	7665.8	4582.7	2749.3	2462.0	2521.7	2396.7	2294.2	2236.3	2193.4	2182.2
47.5°	9495.6	7966.1	4247.0	2452.7	2327.7	2415.4	2344.5	2297.9	2266.2	2236.3	2223.3
50°	10189.4	8301.9	3931.8	2214.0	2206.5	2305.3	2338.9	2322.1	2303.5	2294.2	2283.0
52.5°	10950.4	8645.0	3666.9	2046.1	2100.2	2227.0	2340.8	2353.8	2353.8	2348.2	2340.8
55°	11465.2	8883.8	3398.3	1909.9	1992.0	2163.6	2337.1	2387.4	2406.1	2398.6	2391.1
57.5°	11845.7	9014.4	3060.7	1792.4	1900.6	2102.0	2316.5	2391.1	2409.8	2419.1	2415.4
60°	11924.0	8893.1	2618.7	1669.3	1801.8	2012.5	2241.9	2335.2	2359.4	2417.3	2422.9
62.5°	11571.5	8520.1	2178.5	1548.1	1680.5	1876.4	2141.2	2271.8	2320.3	2409.8	2419.1
64°	11138.8	8102.3	1934.2	1471.6	1602.2	1799.9	2090.9	2255.0	2318.4	2437.8	2445.2
65°	10821.7	7798.3	1781.2	1423.1	1551.8	1749.5	2062.9	2260.6	2335.2	2480.7	2491.9
67.5°	9654.1	6751.9	1473.5	1309.3	1432.4	1663.7	2068.5	2307.2	2331.5	2497.5	2495.6
70°	7988.5	5375.4	1234.7	1204.9	1316.8	1594.7	2046.1	2232.6	2234.5	2344.5	2318.4
72.5°	5981.6	3972.8	1070.6	1096.7	1188.1	1430.6	1932.3	2131.9	2100.2	2115.1	2089.0
75°	4109.0	2628.0	921.4	981.1	1053.8	1264.6	1771.9	1936.0	1885.7	1867.0	1848.4
77.5°	2193.4	1453.0	766.6	867.3	915.8	1093.0	1546.2	1704.8	1652.5	1579.8	1555.5
80°	887.8	684.5	617.4	718.1	746.1	880.4	1287.0	1385.8	1346.7	1219.8	1178.8
82.5°	445.8	410.3	484.9	565.1	567.0	628.6	956.8	1050.1	962.4	807.6	772.2
85°	233.1	240.6	333.9	397.3	350.7	339.5	574.5	636.0	583.8	507.3	457.0
87.5°	83.9	97.0	175.3	173.5	123.1	65.3	126.8	61.6	33.6	20.5	26.1
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)