

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: P456707

Luminaire Tested: **GALN-SA8A-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22674 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

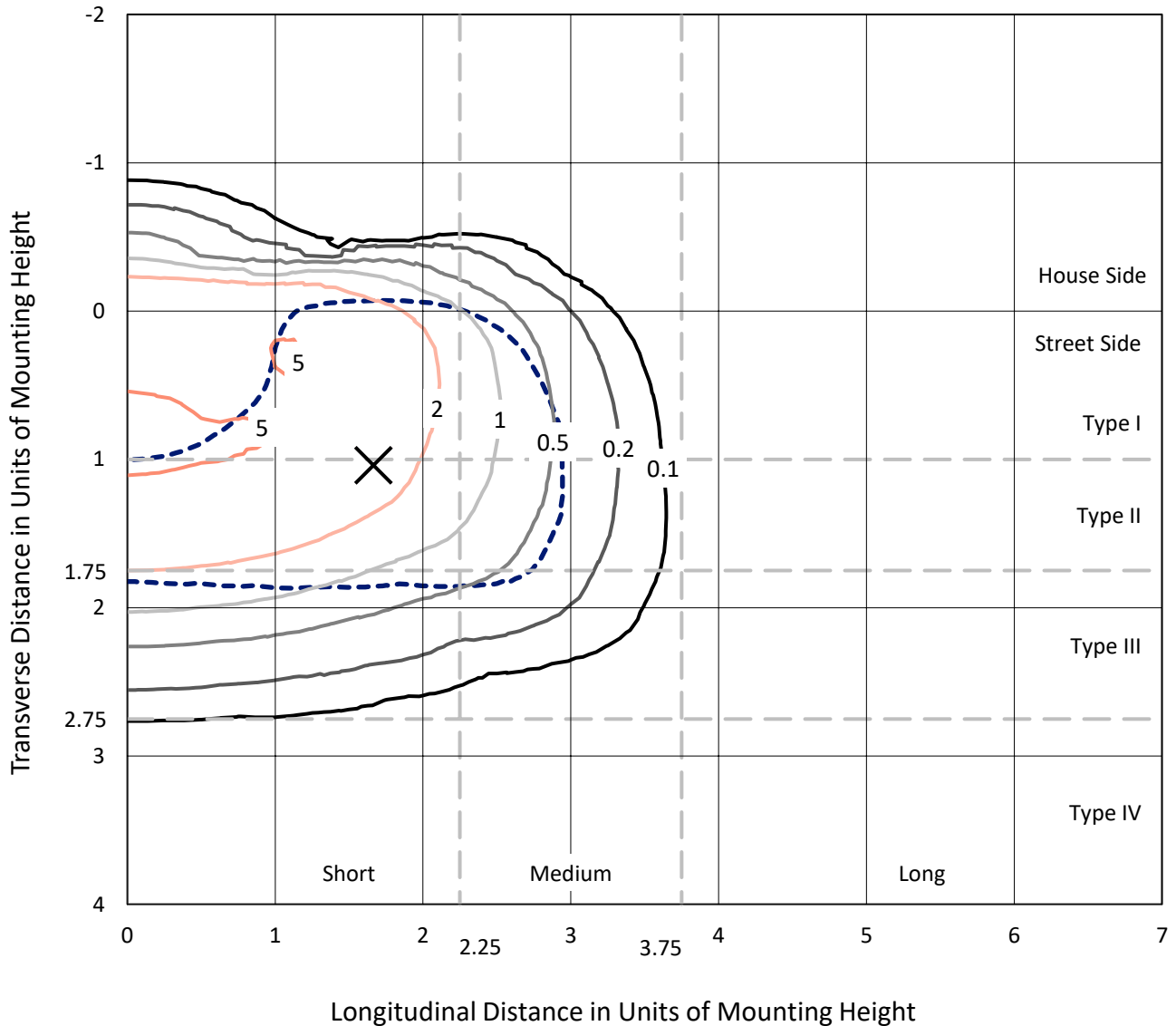
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

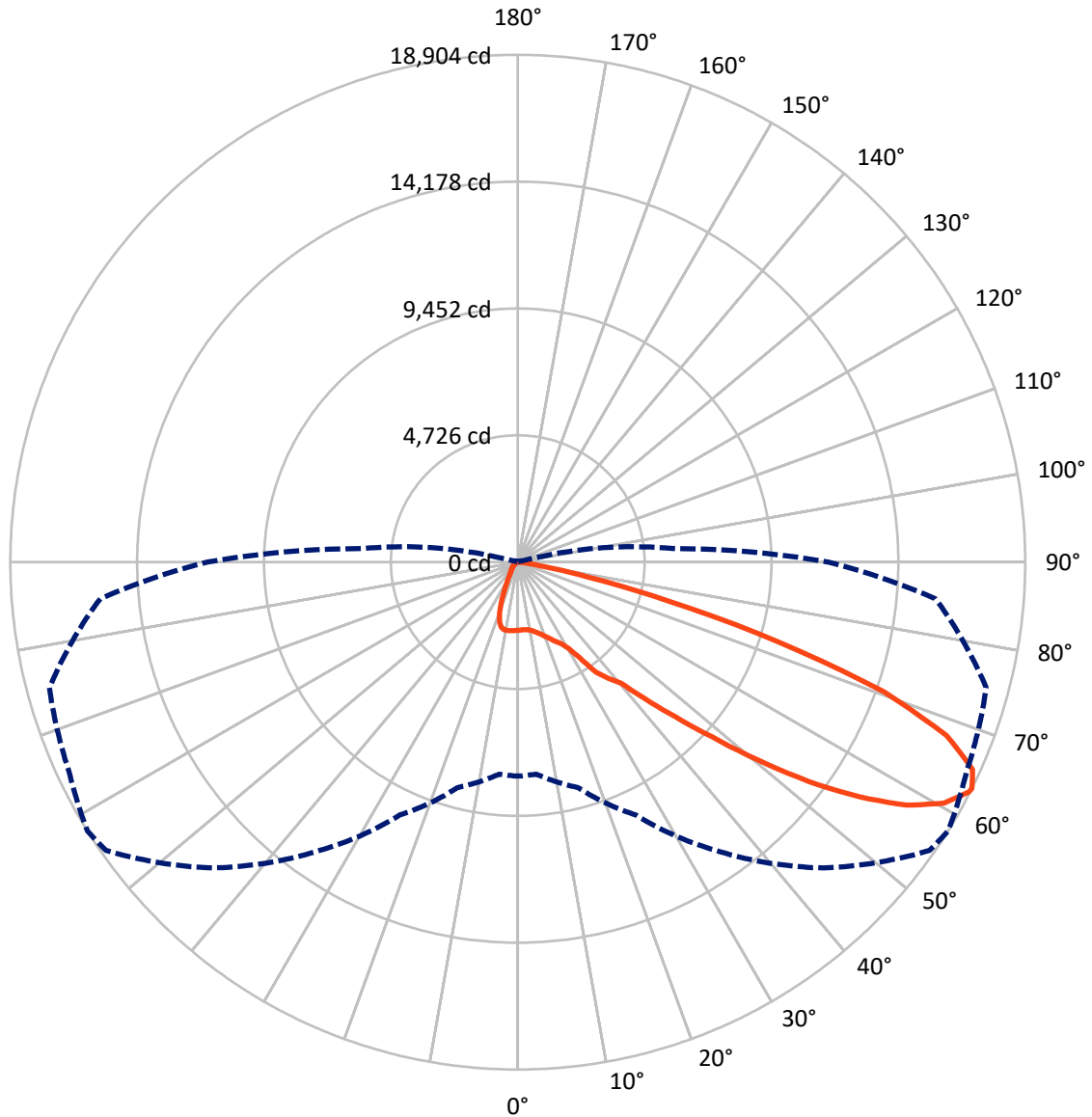
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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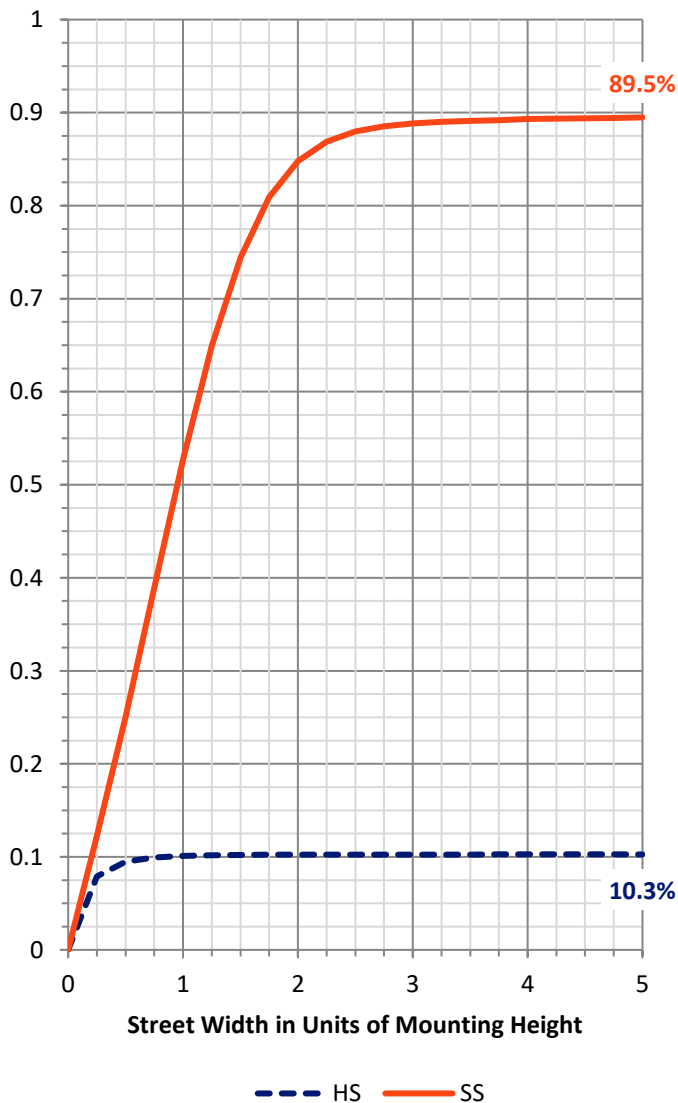
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2347.7	0.0	2347.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20326.3	0.0	20326.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	22674.0	0.0	22674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.0
10°-20°	647.2	2.9
20°-30°	1123.3	5.0
30°-40°	2064.2	9.1
40°-50°	3885.8	17.1
50°-60°	6646.3	29.3
60°-70°	6363.8	28.1
70°-80°	1622.8	7.2
80°-90°	83.0	0.4
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°	22674.0	100.0
0°-180°	22674.0	100.0

Coefficient of Utilization



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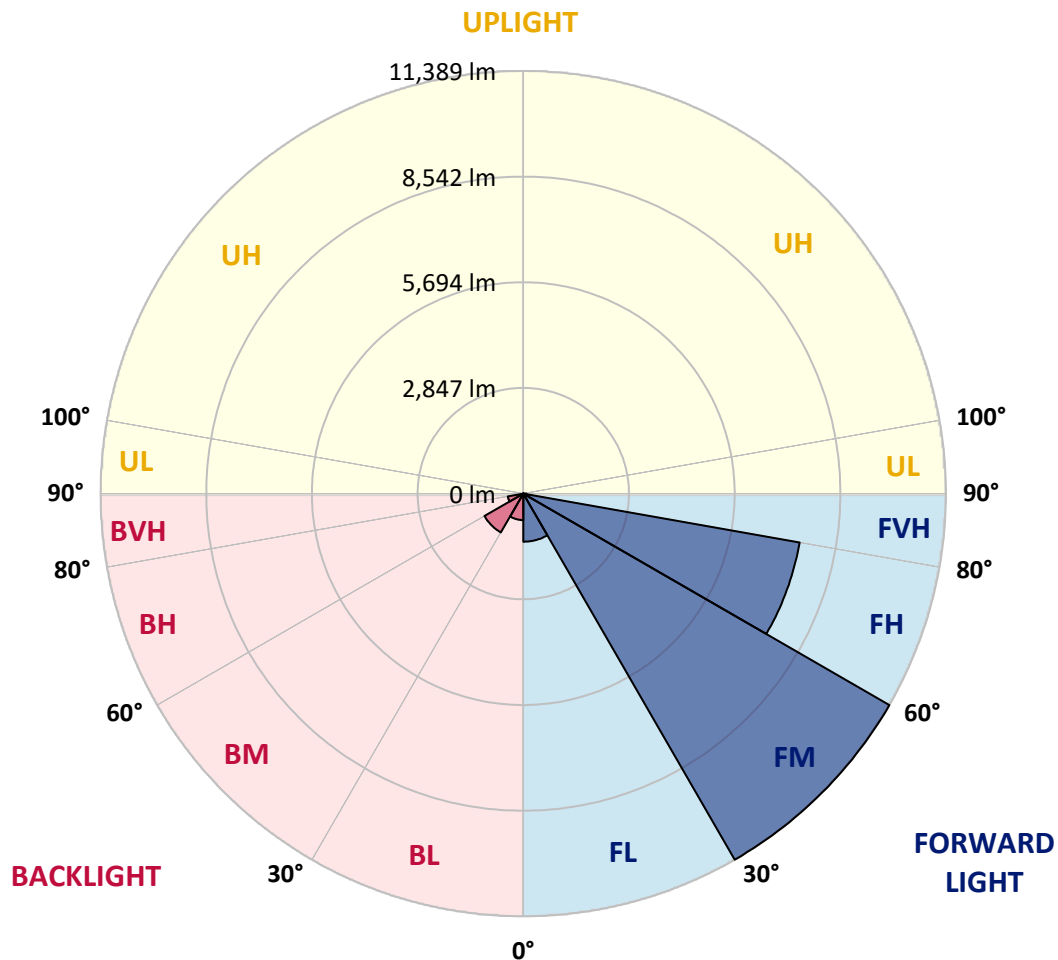
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.1	5.7			
FM (30°-60°)	11388.7	50.2			
FH (60°-80°)	7561.7	33.3			G4/12000
FVH (80°-90°)	79.8	0.4			G1/100
BL (0°-30°)	712.0	3.1	B2/1000		
BM (30°-60°)	1207.5	5.3	B2/2500		
BH (60°-80°)	425.0	1.9	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2475.3	2483.8	2492.4	2495.8	2507.7	2519.7	2528.2	2526.5	2540.1	2547.0	2547.0
5°	2376.3	2376.3	2398.5	2418.9	2453.1	2487.2	2519.7	2526.5	2552.1	2576.0	2584.5
7.5°	2292.6	2297.7	2314.8	2352.4	2398.5	2458.2	2523.1	2538.4	2582.8	2635.7	2657.9
10°	2253.4	2256.8	2279.0	2318.2	2376.3	2458.2	2548.7	2577.7	2646.0	2729.6	2760.4
12.5°	2244.8	2249.9	2272.1	2316.5	2383.1	2482.1	2605.0	2635.7	2734.8	2842.3	2888.4
15°	2260.2	2263.6	2285.8	2333.6	2407.0	2524.8	2680.1	2722.8	2840.6	2965.2	3025.0
17.5°	2314.8	2311.4	2326.8	2366.0	2448.0	2577.7	2770.6	2821.8	2960.1	3130.8	3170.1
20°	2547.0	2524.8	2511.1	2477.0	2509.4	2652.8	2879.9	2955.0	3125.7	3299.8	3327.1
22.5°	3047.2	2997.6	2900.3	2767.2	2664.8	2755.2	3011.3	3098.4	3318.6	3489.3	3489.3
25°	3683.9	3620.7	3523.4	3233.2	2982.3	2924.2	3159.8	3269.1	3528.6	3701.0	3644.6
27.5°	4481.1	4431.6	4242.1	3904.1	3520.0	3219.6	3332.2	3433.0	3714.6	3922.9	3805.1
30°	5129.8	5105.9	4950.6	4648.4	4225.0	3786.3	3653.2	3719.7	3962.2	4202.9	4081.7
32.5°	5677.8	5677.8	5519.0	5237.4	4841.3	4452.1	4197.7	4245.5	4477.7	4756.0	4530.6
35°	6280.4	6259.9	6131.9	5863.9	5420.0	5076.9	4972.8	5037.6	5247.6	5454.2	4899.3
37.5°	6913.7	6906.9	6773.7	6514.3	6152.4	5720.5	5476.3	5493.4	5601.0	5727.3	5331.2
40°	7601.7	7611.9	7437.8	7277.3	6935.9	6493.8	6026.0	5918.5	6019.2	6376.0	6128.5
42.5°	8414.2	8390.3	8315.2	8096.7	7821.9	7557.3	6995.7	6956.4	7045.2	7427.5	7159.5
45°	9358.3	9392.4	9262.7	9141.5	8957.1	8736.9	8267.4	8199.2	8296.5	8890.5	8509.8
47.5°	10304.0	10271.6	10355.2	10333.0	10432.0	10268.1	9853.3	9713.3	9947.2	10510.5	9950.6
50°	11024.4	11060.2	11234.4	11488.7	11913.8	12006.0	11608.2	11560.4	11664.5	12026.4	11239.5
52.5°	11492.1	11611.6	11884.8	12538.6	13305.1	13900.8	13598.7	13573.1	13530.4	13627.7	12472.0
55°	11797.7	11918.9	12275.7	13238.5	14558.1	15526.0	15541.3	15432.1	15150.4	15080.4	13624.3
57.5°	11609.9	11633.8	12142.5	13429.7	15252.8	16685.1	17187.0	17077.7	16557.1	16292.5	14641.7
60°	10435.4	10484.9	11193.4	12705.9	14950.7	17064.1	18277.8	18228.3	17658.1	17359.4	15433.8
62.5°	8354.5	8497.9	9226.8	10913.4	13545.8	16425.6	18719.9	18859.9	18416.1	18004.7	15683.0
63°	7972.1	7926.0	8695.9	10391.1	13173.6	16109.8	18726.8	18904.3	18450.2	18066.1	15614.7
65°	5901.4	6039.7	6539.9	8194.0	10962.9	14640.0	18305.1	18619.2	18323.9	17794.7	14858.5
67.5°	3313.5	3306.6	3859.7	5362.0	7673.4	11483.6	16551.9	17216.0	17154.5	15968.1	12316.7
70°	1621.7	1647.3	1874.4	2779.1	4450.4	7922.6	13754.0	14471.0	14493.2	12542.0	8516.7
72.5°	734.0	746.0	908.2	1353.7	2287.5	4218.2	9477.8	10162.3	10036.0	7992.6	4703.0
75°	387.5	413.1	500.2	681.1	1102.8	1739.5	5155.4	5817.8	5553.2	3651.5	1731.0
77.5°	286.8	295.3	339.7	433.6	590.7	677.7	2224.3	2646.0	2478.7	1321.3	573.6
80°	210.0	216.8	252.6	307.3	372.1	344.8	838.2	961.1	862.1	449.0	175.8
82.5°	128.0	129.7	184.4	228.7	233.9	192.9	276.5	297.0	310.7	252.6	95.6
85°	46.1	58.0	124.6	165.6	138.3	97.3	116.1	128.0	140.0	160.5	56.3
87.5°	5.1	6.8	59.7	80.2	39.3	35.8	42.7	47.8	51.2	59.7	27.3
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°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2553.8	2560.6	2555.5	2547.0	2545.3	2540.1	2529.9	2529.9	2529.9	2533.3	2529.9
5°	2591.4	2596.5	2584.5	2567.5	2548.7	2524.8	2499.2	2483.8	2482.1	2478.7	2470.2
7.5°	2663.1	2669.9	2642.6	2601.6	2550.4	2492.4	2437.7	2386.5	2362.6	2343.8	2343.8
10°	2767.2	2774.0	2719.4	2646.0	2543.6	2425.8	2296.0	2178.2	2086.1	2043.4	2033.1
12.5°	2891.8	2895.2	2804.7	2676.7	2507.7	2280.7	2004.1	1746.4	1567.1	1485.2	1476.6
15°	3028.4	3004.5	2885.0	2688.7	2405.3	1981.9	1503.9	1188.1	1002.1	947.4	967.9
17.5°	3166.7	3122.3	2946.4	2669.9	2174.8	1503.9	1010.6	810.9	752.8	737.5	737.5
20°	3296.4	3234.9	2990.8	2587.9	1775.4	1036.2	749.4	701.6	691.4	681.1	682.8
22.5°	3426.1	3332.2	3030.1	2405.3	1323.0	740.9	670.9	655.5	641.9	628.2	626.5
25°	3552.5	3422.7	3045.4	2067.3	901.3	636.7	612.8	592.4	565.0	549.7	546.3
27.5°	3683.9	3532.0	3035.2	1640.5	657.2	570.2	546.3	517.2	484.8	457.5	457.5
30°	3936.5	3740.2	2999.4	1179.6	553.1	501.9	471.2	425.1	389.2	361.9	360.2
32.5°	4281.4	4011.7	2876.4	829.6	491.6	442.1	396.0	344.8	307.3	286.8	286.8
35°	4588.7	4284.8	2646.0	611.1	442.1	384.1	327.8	278.3	249.2	235.6	230.5
37.5°	5056.4	4684.3	2328.5	496.8	394.3	332.9	274.8	228.7	204.9	194.6	194.6
40°	5758.0	5172.5	1939.3	435.3	348.2	283.4	228.7	192.9	174.1	162.2	162.2
42.5°	6628.6	5770.0	1544.9	390.9	305.6	244.1	191.2	163.9	146.8	138.3	136.6
45°	7724.6	6399.9	1189.8	350.0	271.4	208.3	162.2	138.3	121.2	116.1	117.8
47.5°	8868.3	6954.7	921.8	314.1	235.6	175.8	138.3	119.5	107.5	100.7	100.7
50°	9844.8	7337.1	699.9	273.1	208.3	148.5	121.2	107.5	97.3	93.9	92.2
52.5°	10660.8	7448.0	536.0	237.3	182.7	128.0	107.5	97.3	88.8	83.6	83.6
55°	11355.6	7350.7	419.9	199.7	153.6	111.0	95.6	87.1	76.8	71.7	70.0
57.5°	11761.8	7038.3	320.9	165.6	124.6	92.2	83.6	73.4	61.5	52.9	52.9
60°	11966.7	6584.2	245.8	136.6	95.6	73.4	68.3	54.6	42.7	35.8	34.1
62.5°	11720.9	5981.6	186.1	107.5	71.7	54.6	46.1	39.3	27.3	20.5	20.5
63°	11568.9	5807.5	179.2	102.4	66.6	51.2	42.7	35.8	23.9	18.8	17.1
65°	10546.4	5047.9	146.8	81.9	52.9	35.8	29.0	25.6	17.1	8.5	6.8
67.5°	8375.0	3861.4	116.1	61.5	37.6	25.6	17.1	15.4	5.1	0.0	0.0
70°	5662.4	2494.1	90.5	44.4	25.6	15.4	8.5	6.8	1.7	0.0	0.0
72.5°	2953.3	1278.6	70.0	32.4	15.4	10.2	5.1	1.7	0.0	0.0	0.0
75°	1044.7	435.3	51.2	20.5	10.2	5.1	1.7	0.0	0.0	0.0	0.0
77.5°	315.8	162.2	32.4	15.4	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	111.0	59.7	18.8	10.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	54.6	29.0	11.9	8.5	5.1	1.7	0.0	0.0	0.0	0.0	0.0
85°	30.7	18.8	10.2	8.5	5.1	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.2	13.7	10.2	8.5	6.8	3.4	1.7	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)