

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: P455166

Luminaire Tested: **GALN-SA6B-750-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25224 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

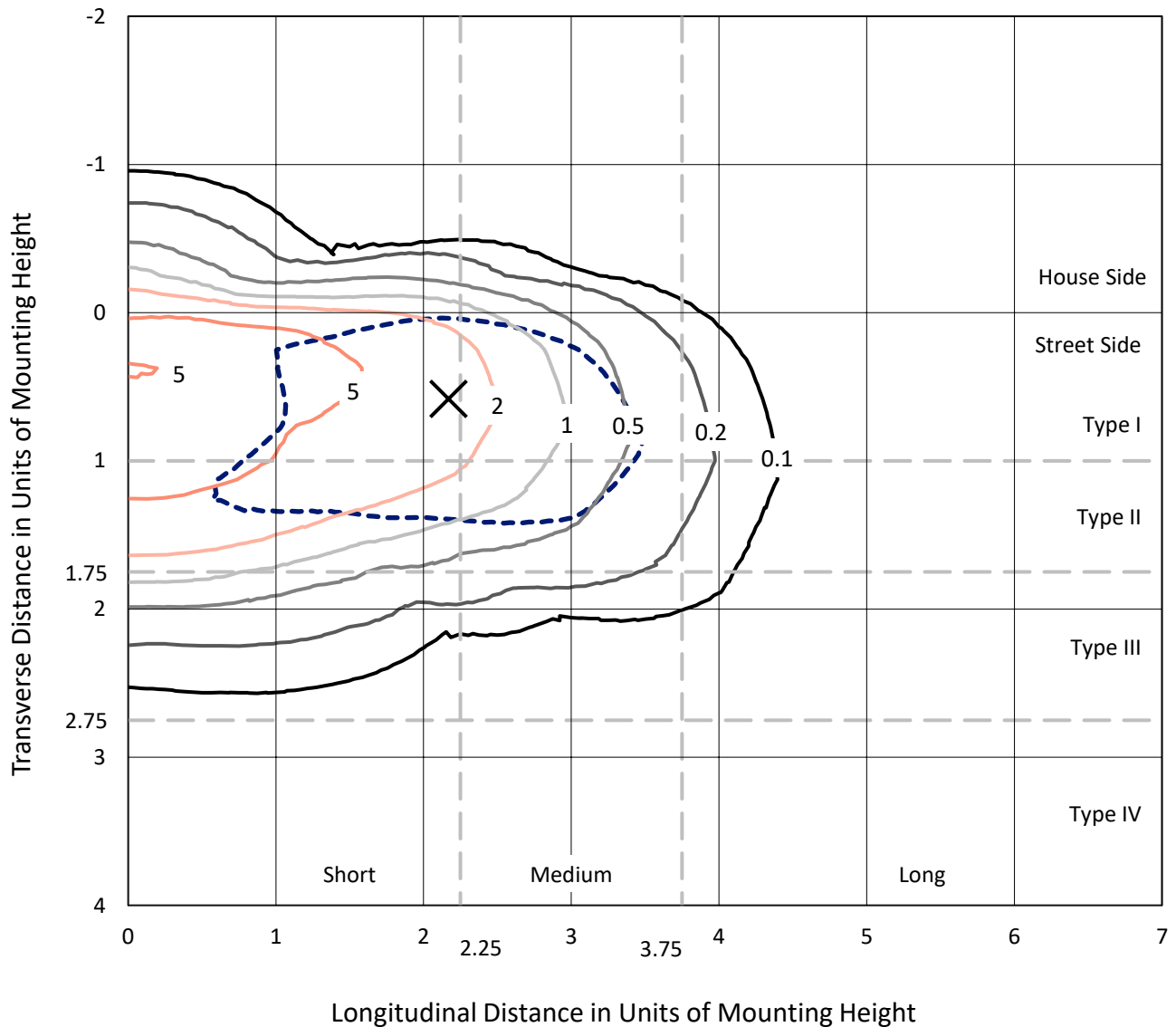
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

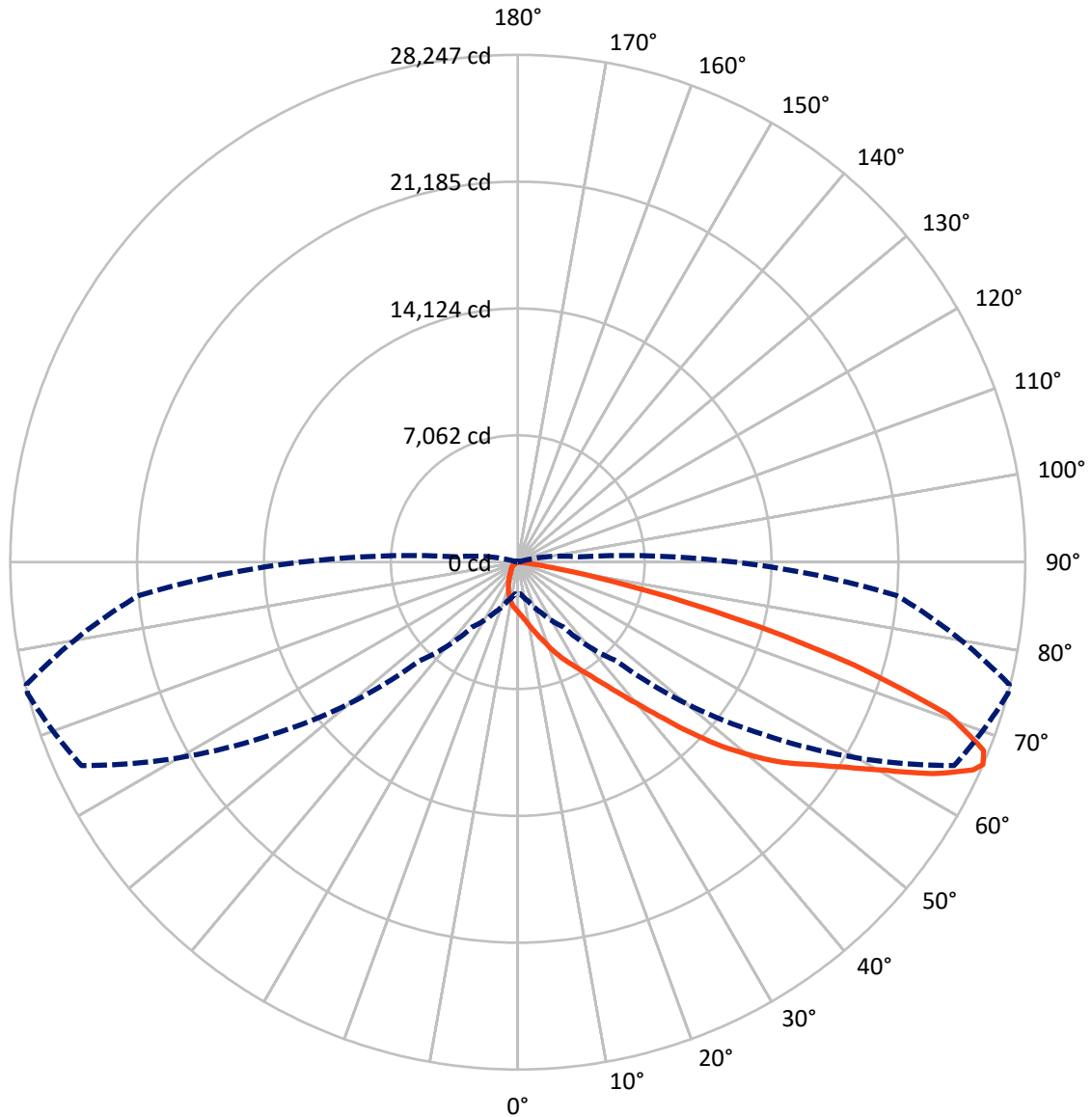
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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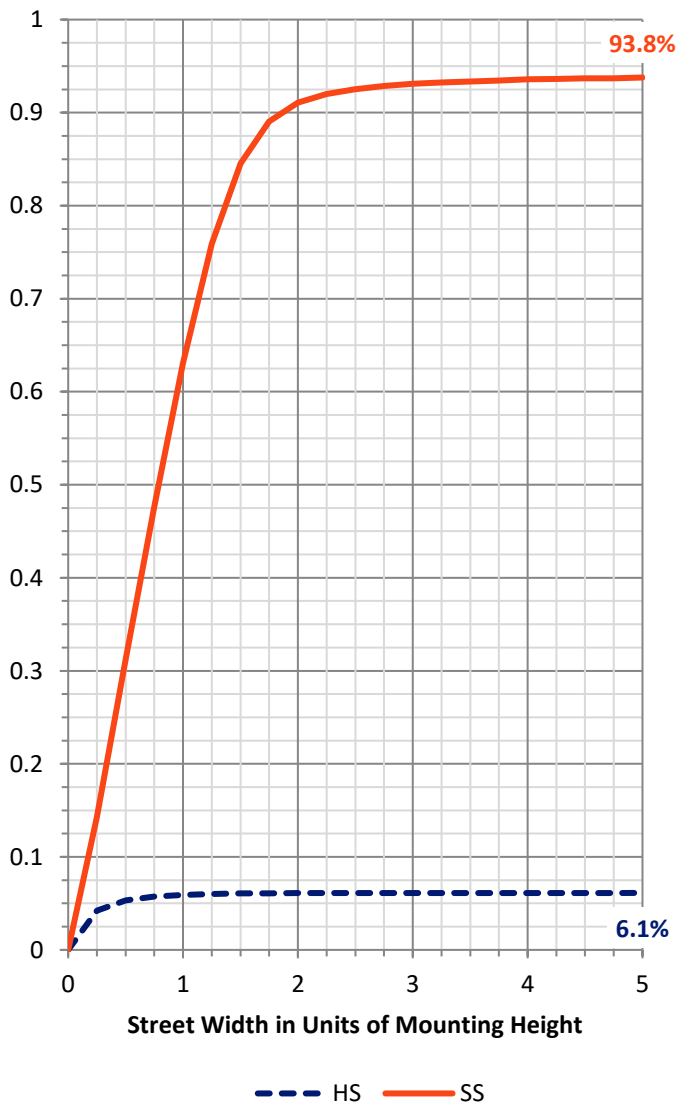
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.2	0.0	1557.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23666.8	0.0	23666.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	25224.0	0.0	25224.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	1.1
10°-20°	783.0	3.1
20°-30°	1352.1	5.4
30°-40°	2438.9	9.7
40°-50°	4406.0	17.5
50°-60°	6869.0	27.2
60°-70°	6525.3	25.9
70°-80°	2445.5	9.7
80°-90°	138.0	0.5
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°	25224.0	100.0
0°-180°	25224.0	100.0



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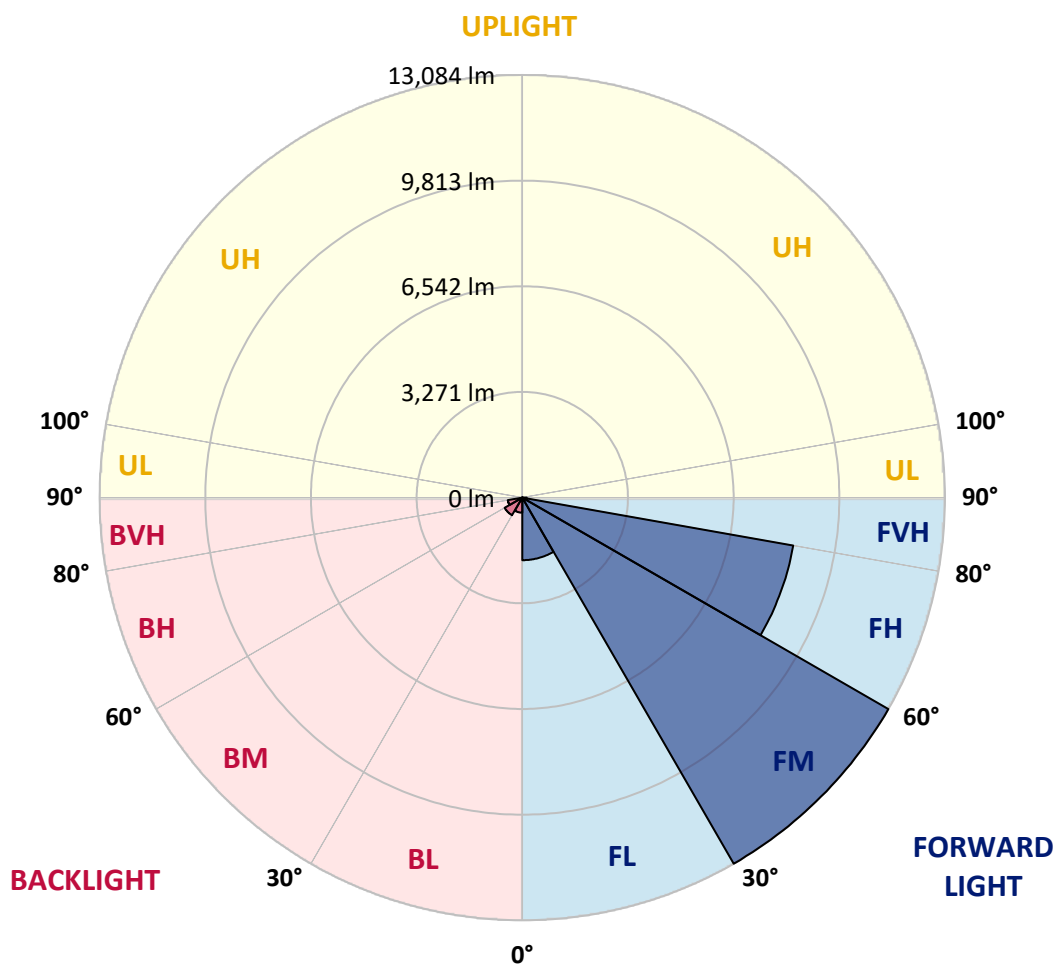
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.2	7.7			
FM (30°-60°)	13083.7	51.9			
FH (60°-80°)	8516.1	33.8			G4/12000
FVH (80°-90°)	130.9	0.5			G2/225
BL (0°-30°)	465.1	1.8	B1/500		
BM (30°-60°)	630.3	2.5	B1/1000		
BH (60°-80°)	454.7	1.8	B1/500		G1/500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5
2.5°	3295.6	3254.6	3267.7	3249.0	3206.1	3142.7	3086.8	3006.6	2926.4	2913.3	2823.8
5°	3730.2	3719.0	3704.1	3650.0	3620.2	3523.2	3407.6	3269.5	3103.5	3073.7	2911.4
7.5°	4026.8	4021.2	4028.6	4000.7	3974.5	3886.9	3763.8	3575.4	3318.0	3301.2	3030.8
10°	4123.8	4138.7	4166.6	4211.4	4252.4	4224.5	4131.2	3896.2	3595.9	3547.4	3167.0
12.5°	4067.8	4084.6	4151.7	4271.1	4403.5	4480.0	4442.7	4271.1	3890.6	3851.4	3319.9
15°	3924.2	3944.7	4039.8	4224.5	4461.3	4677.7	4770.9	4647.8	4233.8	4170.4	3504.5
17.5°	3711.6	3741.4	3877.6	4121.9	4446.4	4819.4	5082.4	5041.4	4599.4	4539.7	3706.0
20°	3551.2	3573.5	3689.2	3968.9	4383.0	4897.8	5379.0	5494.6	5050.7	4948.1	3942.8
22.5°	3657.5	3664.9	3704.1	3872.0	4269.2	4918.3	5640.1	5966.5	5530.0	5438.7	4189.0
25°	4177.8	4103.2	4064.1	4026.8	4245.0	4899.6	5877.0	6458.9	6007.5	5910.5	4433.4
27.5°	4998.5	4964.9	4767.2	4502.4	4452.0	4923.9	6033.6	6925.1	6457.0	6352.6	4672.1
30°	5891.9	5834.1	5712.8	5324.9	4935.1	5095.5	6147.4	7378.4	6988.6	6850.5	4890.3
32.5°	6712.5	6749.8	6568.9	6169.8	5718.4	5461.0	6294.7	7872.6	7598.8	7426.9	5144.0
35°	7669.3	7743.9	7466.0	7083.7	6555.9	6121.3	6582.0	8430.3	8372.5	8156.1	5535.6
37.5°	8641.0	8685.8	8516.1	7978.9	7503.3	6960.6	7122.8	9118.5	9325.5	9140.9	6003.8
40°	9458.0	9519.5	9394.5	8917.1	8409.8	7932.3	7908.1	9868.3	10459.5	10269.3	6701.3
42.5°	10082.8	10129.4	10133.1	9795.5	9338.6	9122.2	8909.6	10825.1	11880.7	11660.7	7510.8
45°	10871.7	10938.9	10899.7	10670.3	10329.0	10289.8	10179.8	11981.4	13581.7	13303.8	8560.8
47.5°	12091.5	12136.3	12039.3	11768.8	11421.9	11483.5	11418.2	13277.7	15316.3	15077.5	9648.2
50°	12938.2	13012.9	13150.9	13259.0	13007.3	12779.7	12585.7	14488.2	16963.2	16748.7	10759.8
52.5°	12928.9	13052.0	13488.5	14033.1	14583.3	14514.3	13956.6	15825.4	18535.4	18270.6	11804.3
55°	12057.9	12296.7	12938.2	13904.4	15428.2	16187.3	15933.6	17373.5	19893.2	19714.2	13014.7
57.5°	10260.0	10405.4	11297.0	12647.3	14956.3	16974.3	18224.0	19471.7	21521.5	21437.5	14894.7
60°	6900.9	6966.2	8113.2	9782.5	12733.1	16189.1	19902.6	22010.1	23526.5	23485.4	17090.0
62.5°	3954.0	3982.0	4813.8	6222.0	9060.7	13719.7	20044.3	25141.6	25930.6	25953.0	19630.3
65°	2128.1	2143.0	2814.4	3651.9	5513.3	9778.8	18024.4	26857.5	27874.0	27916.9	21204.4
66°	1837.1	1766.3	2240.0	3112.9	4386.7	7783.1	16746.8	26796.0	28247.1	28200.4	21148.5
67.5°	1397.0	1460.4	1788.6	2392.9	3250.9	5533.8	13826.0	25604.2	27963.6	27818.1	20288.6
70°	999.7	1025.8	1273.9	1706.6	2213.9	3036.4	8835.0	21266.0	25415.8	25220.0	17675.6
72.5°	645.3	673.3	902.7	1234.7	1600.3	1658.1	4946.3	15364.8	19594.8	19566.8	13311.3
75°	460.7	486.8	596.8	884.1	1203.0	1025.8	2381.7	10355.1	12457.1	12373.1	8234.4
77.5°	333.9	346.9	399.1	578.2	859.8	734.9	1104.1	5530.0	6201.5	6494.3	3638.8
80°	192.1	203.3	277.9	352.5	581.9	501.7	527.8	2219.5	2288.5	2178.4	1137.7
82.5°	95.1	108.2	166.0	240.6	363.7	337.6	242.5	667.7	705.0	686.4	287.2
85°	22.4	28.0	93.3	158.5	177.2	151.1	117.5	195.8	242.5	236.9	110.0
87.5°	1.9	3.7	33.6	28.0	29.8	50.4	41.0	50.4	78.3	72.7	39.2
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°	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5	2758.5
2.5°	2782.7	2747.3	2644.7	2544.0	2460.1	2372.4	2292.2	2245.6	2226.9	2206.4	2215.7
5°	2821.9	2736.1	2529.1	2350.0	2174.7	2025.5	1906.1	1829.7	1792.4	1786.8	1777.4
7.5°	2874.1	2726.8	2406.0	2126.2	1896.8	1730.8	1594.7	1484.6	1451.1	1421.2	1397.0
10°	2937.5	2710.0	2253.0	1891.2	1646.9	1438.0	1258.9	1128.4	1061.2	1042.6	1055.7
12.5°	3004.7	2678.3	2092.7	1674.9	1393.2	1126.5	960.5	895.3	876.6	869.1	871.0
15°	3071.8	2639.1	1924.8	1466.0	1109.7	899.0	822.5	805.7	798.3	794.5	790.8
17.5°	3133.4	2575.7	1736.4	1262.7	899.0	768.4	740.4	725.5	710.6	705.0	695.7
20°	3206.1	2503.0	1566.7	1035.1	761.0	695.7	662.1	634.1	611.8	596.8	595.0
22.5°	3275.1	2409.7	1389.5	857.9	693.8	624.8	570.7	540.9	514.8	496.1	501.7
25°	3312.4	2295.9	1231.0	747.9	632.3	553.9	494.3	457.0	429.0	419.6	417.8
27.5°	3312.4	2156.1	1076.2	684.5	576.3	490.5	429.0	393.5	374.9	361.8	363.7
30°	3286.3	2001.3	932.6	636.0	527.8	434.6	376.8	345.0	330.1	320.8	318.9
32.5°	3265.8	1853.9	809.5	589.4	477.5	386.1	335.7	311.5	296.6	287.2	287.2
35°	3297.5	1727.1	714.3	542.7	430.8	348.8	304.0	281.6	266.7	259.2	257.4
37.5°	3381.4	1611.5	641.6	492.4	387.9	317.1	281.6	255.5	240.6	231.3	227.5
40°	3588.5	1546.2	587.5	445.8	346.9	291.0	255.5	231.3	212.6	203.3	201.4
42.5°	3920.5	1548.0	535.3	402.9	315.2	268.6	233.1	205.2	184.6	175.3	173.5
45°	4420.3	1618.9	494.3	361.8	287.2	244.3	208.9	179.1	160.4	151.1	151.1
47.5°	5019.0	1756.9	458.8	326.4	261.1	221.9	184.6	154.8	136.2	128.7	128.7
50°	5668.1	1936.0	423.4	289.1	238.7	197.7	158.5	134.3	119.4	113.8	113.8
52.5°	6330.2	2152.3	387.9	259.2	214.5	171.6	136.2	119.4	106.3	102.6	100.7
55°	7199.3	2428.4	350.6	227.5	188.4	147.3	121.2	104.4	89.5	83.9	82.1
57.5°	8536.6	2844.3	309.6	199.6	154.8	123.1	104.4	87.7	70.9	61.5	59.7
60°	10149.9	3351.6	266.7	175.3	125.0	100.7	83.9	67.1	52.2	41.0	39.2
62.5°	11660.7	3674.3	225.7	147.3	98.9	76.5	59.7	50.4	37.3	26.1	24.2
65°	12328.4	3566.1	186.5	119.4	78.3	54.1	39.2	35.4	22.4	11.2	9.3
66°	12106.4	3405.7	171.6	108.2	70.9	46.6	33.6	29.8	16.8	5.6	5.6
67.5°	11451.8	3027.1	149.2	93.3	61.5	37.3	26.1	22.4	9.3	1.9	0.0
70°	9812.3	2448.9	117.5	69.0	44.8	26.1	14.9	11.2	5.6	0.0	0.0
72.5°	7536.9	1824.1	93.3	52.2	31.7	14.9	7.5	3.7	5.6	0.0	0.0
75°	4618.0	1042.6	72.7	39.2	20.5	9.3	5.6	0.0	5.6	1.9	0.0
77.5°	2049.8	468.1	48.5	26.1	14.9	7.5	3.7	0.0	3.7	1.9	0.0
80°	518.5	152.9	28.0	18.7	11.2	5.6	1.9	0.0	3.7	3.7	1.9
82.5°	141.7	56.0	20.5	14.9	9.3	5.6	1.9	0.0	3.7	3.7	3.7
85°	56.0	26.1	18.7	14.9	11.2	5.6	1.9	0.0	3.7	3.7	3.7
87.5°	26.1	18.7	18.7	16.8	13.1	5.6	1.9	0.0	3.7	1.9	3.7
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)