

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: P455693

Luminaire Tested: **GALN-SA6D-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455693
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-SA6D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33441 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

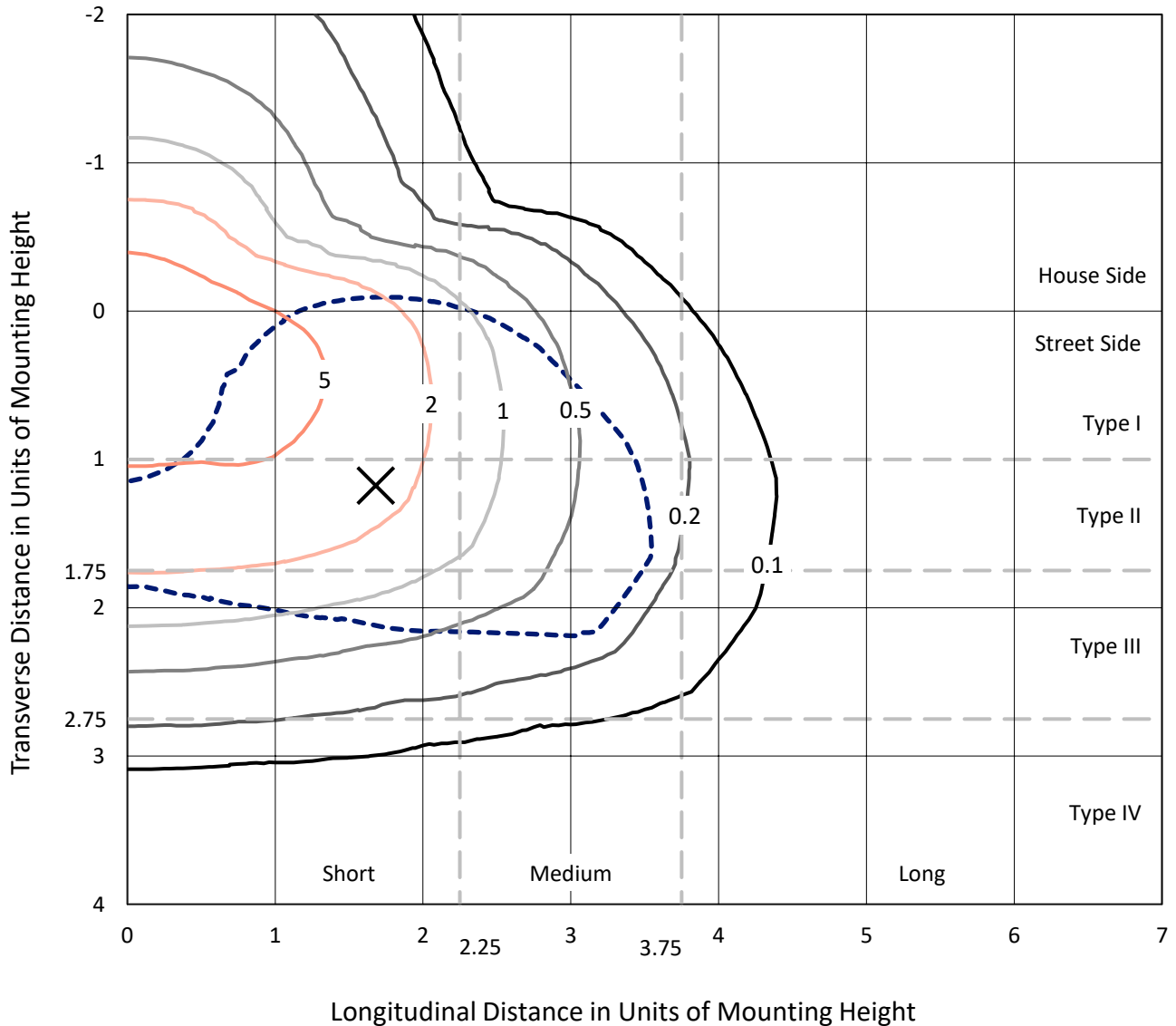
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

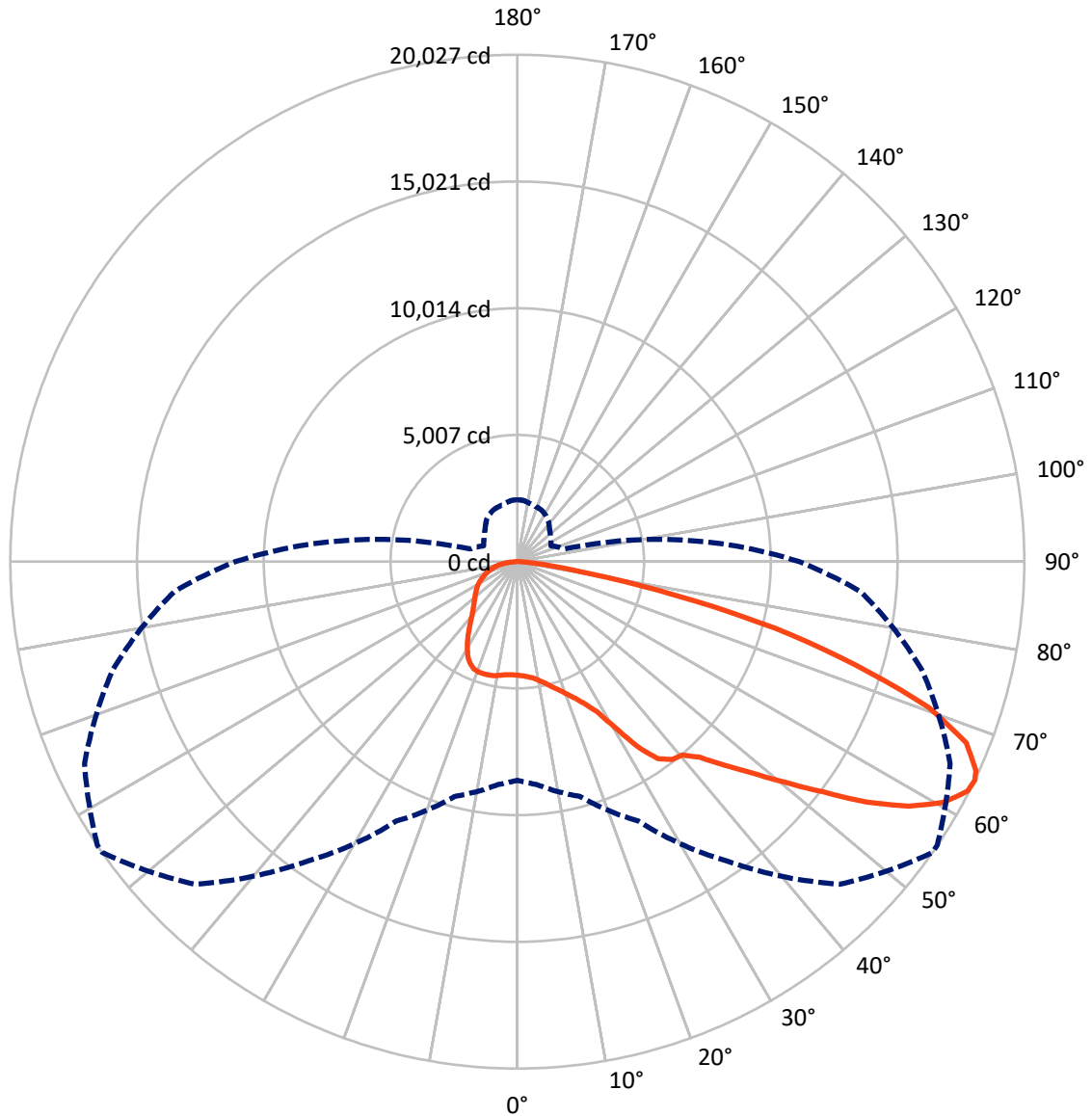
✕ Max cd
 - - - 1/2 Max cd



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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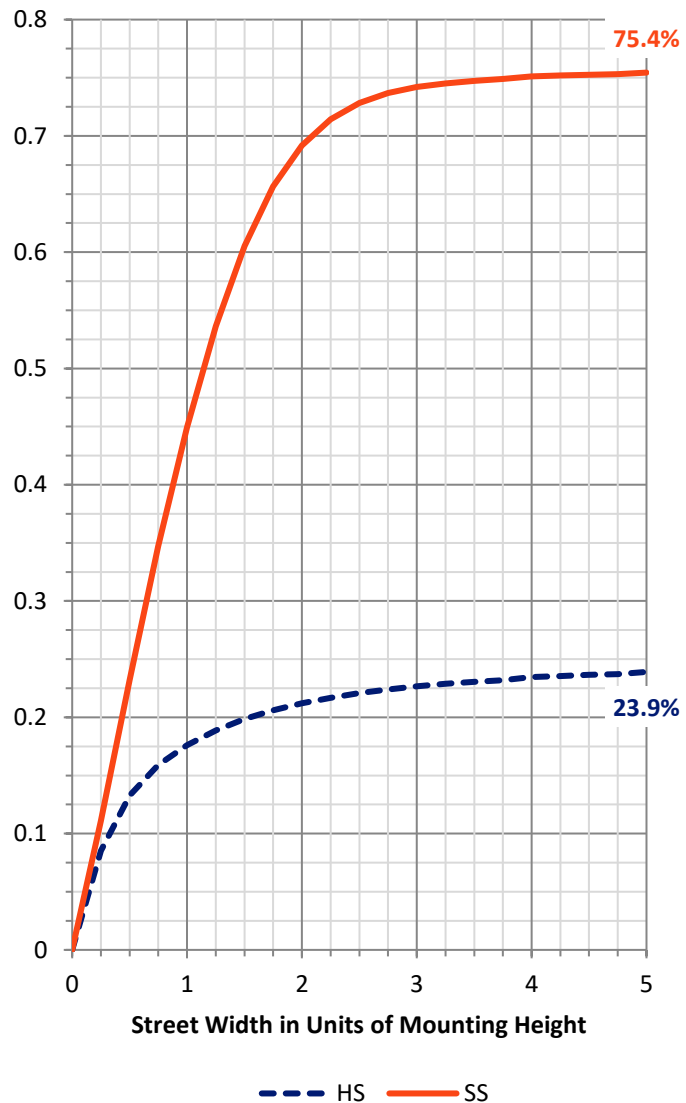
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8123.5	0.0	8123.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	25317.5	0.0	25317.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	33441.0	0.0	33441.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.4	1.3
10°-20°	1377.1	4.1
20°-30°	2451.6	7.3
30°-40°	3772.1	11.3
40°-50°	5347.2	16.0
50°-60°	7740.0	23.1
60°-70°	8010.1	24.0
70°-80°	3751.1	11.2
80°-90°	555.3	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°	33441.0	100.0
0°-180°	33441.0	100.0



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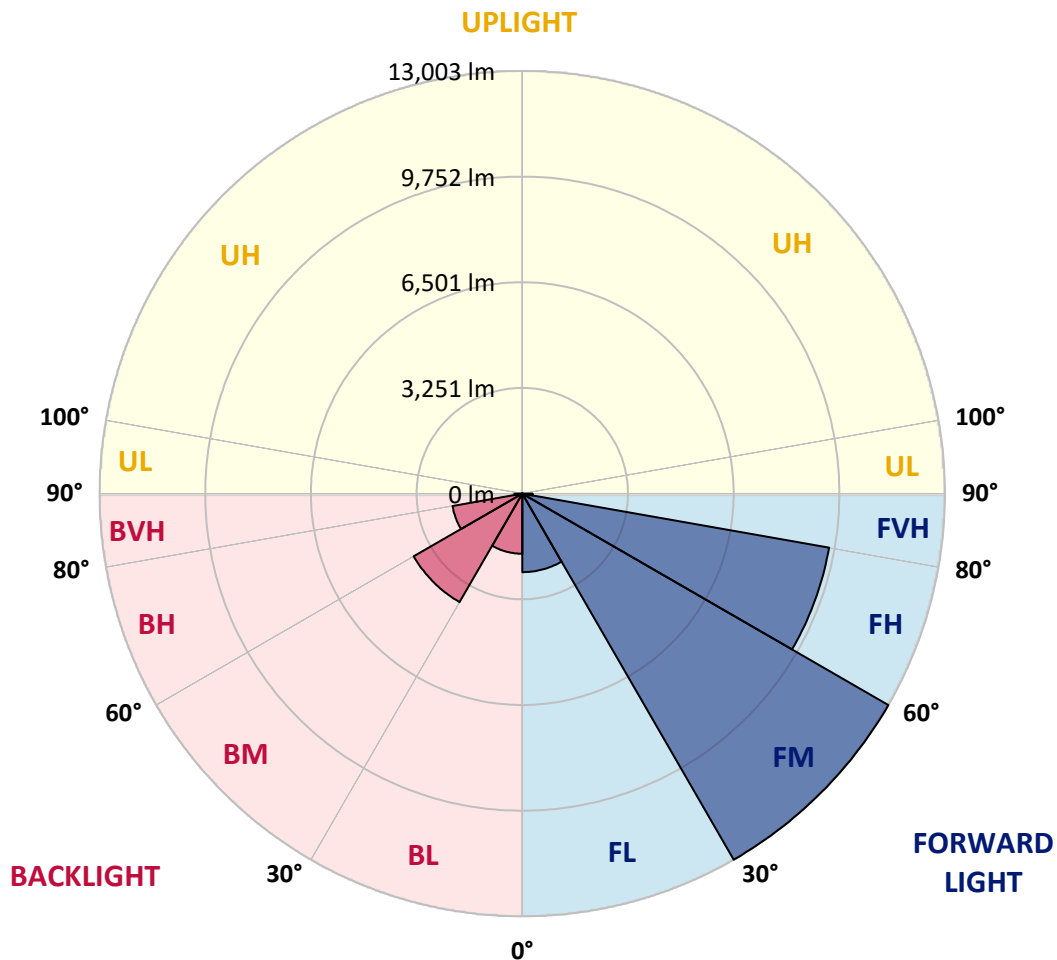
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2415.0	7.2			
FM (30°-60°)	13002.8	38.9			
FH (60°-80°)	9581.8	28.7			G4/12000
FVH (80°-90°)	318.0	1.0			G3/500
BL (0°-30°)	1850.2	5.5	B3/2500		
BM (30°-60°)	3856.5	11.5	B3/5000		
BH (60°-80°)	2179.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	237.4	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°	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8
2.5°	4537.1	4535.2	4540.8	4535.2	4539.0	4525.9	4520.3	4524.1	4518.5	4509.1	4492.4
5°	4593.0	4591.2	4593.0	4585.6	4589.3	4581.8	4568.8	4572.5	4563.2	4542.7	4518.5
7.5°	4688.1	4680.6	4680.6	4678.8	4671.3	4660.1	4650.8	4647.1	4637.8	4611.7	4574.4
10°	4811.1	4811.1	4813.0	4798.1	4807.4	4786.9	4777.6	4775.7	4744.0	4710.5	4658.3
12.5°	4973.3	4982.6	4977.0	4969.6	4965.8	4958.4	4926.7	4934.1	4898.7	4840.9	4777.6
15°	5174.6	5189.5	5180.2	5176.5	5167.2	5139.2	5126.1	5120.6	5073.9	4990.1	4906.2
17.5°	5441.2	5422.5	5415.1	5405.8	5366.6	5346.1	5323.7	5320.0	5279.0	5180.2	5049.7
20°	5674.2	5700.3	5685.4	5676.0	5636.9	5597.7	5581.0	5575.4	5540.0	5431.8	5223.1
22.5°	5951.9	5957.5	5963.1	5940.7	5922.1	5892.3	5862.4	5853.1	5840.1	5728.2	5472.9
25°	6248.3	6270.7	6252.0	6229.7	6207.3	6205.4	6233.4	6229.7	6224.1	6116.0	5804.7
27.5°	6731.1	6751.6	6757.2	6733.0	6647.2	6654.7	6718.0	6738.5	6824.3	6645.3	6231.5
30°	7003.2	7023.7	7070.3	7161.7	7297.8	7417.1	7569.9	7616.5	7698.5	7361.1	6738.5
32.5°	7171.0	7178.5	7262.3	7432.0	7840.2	8285.7	8701.4	8718.2	8770.4	8296.9	7202.7
35°	7435.7	7441.3	7508.4	7694.8	8173.9	8915.8	9558.9	9579.4	9536.5	8587.7	7418.9
37.5°	7761.9	7776.8	7819.7	7974.4	8546.7	9443.3	9914.9	9900.0	9519.7	8818.8	7801.1
40°	8237.2	8237.2	8186.9	8395.7	8940.0	9745.3	10039.8	10013.7	9913.0	9488.0	8382.6
42.5°	8656.7	8649.2	8768.5	8910.2	9432.1	10211.3	10563.6	10606.5	10772.4	10328.7	9044.4
45°	9202.8	9236.4	9303.5	9560.7	10269.1	11007.2	11462.1	11503.1	11737.9	11318.5	9818.0
47.5°	9754.6	9765.8	9976.4	10319.4	11305.5	12086.5	12459.3	12526.4	12740.8	12476.1	10651.2
50°	10146.0	10252.3	10589.7	11130.3	12373.6	13402.5	13693.3	13773.5	14151.9	13736.2	11622.4
52.5°	10559.9	10664.2	11076.2	11900.1	13600.1	14748.4	15106.3	15160.3	15553.6	15011.2	12615.9
55°	10914.0	11011.0	11478.8	12582.4	14576.9	16122.2	16770.9	16707.5	16895.8	15993.6	13382.0
57.5°	10971.8	11050.1	11639.1	13018.5	15311.3	17300.3	18230.4	18267.7	18049.6	16728.0	14013.9
60°	10524.4	10684.7	11361.4	12971.9	15641.3	18120.4	19319.0	19345.1	18726.3	17104.5	14265.6
62.5°	9732.2	9715.4	10533.8	12222.6	15179.0	18306.9	19960.3	19932.3	18991.0	16923.7	14021.4
64°	8638.0	8839.3	9603.6	11301.7	14433.4	18019.8	20027.4	20012.5	18864.2	16547.2	13605.7
65°	7970.7	7959.5	8714.4	10548.7	13691.5	17587.3	19908.1	19887.6	18599.5	16209.8	13283.2
67.5°	5754.3	5780.4	6526.0	8140.3	11130.3	15896.6	19130.8	19054.3	17555.6	15091.4	12056.7
70°	3485.8	3500.7	4086.0	5400.2	7989.3	12850.8	17244.3	17248.1	15958.1	13421.2	10261.6
72.5°	1836.1	1875.2	2110.1	3066.4	4852.1	9016.4	13989.7	14321.5	13700.8	11454.6	8106.8
75°	1021.5	1027.1	1193.0	1511.7	2475.5	5046.0	10515.1	10610.2	10846.9	9219.6	5994.8
77.5°	779.2	790.4	842.6	976.8	1347.7	2339.4	6363.9	6841.1	7644.5	6499.9	3420.5
80°	631.9	643.1	687.8	768.0	896.6	1109.1	2956.4	3213.6	4091.6	2885.6	1334.7
82.5°	492.1	484.7	542.4	594.6	652.4	656.1	1213.5	1342.1	1666.5	1241.5	577.9
85°	365.4	365.4	412.0	400.8	421.3	384.0	535.0	590.9	667.3	527.5	268.4
87.5°	145.4	160.3	270.3	242.3	188.3	151.0	197.6	208.8	231.1	206.9	111.8
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°	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8	4486.8
2.5°	4494.2	4499.8	4486.8	4477.5	4473.7	4468.1	4462.5	4464.4	4471.9	4479.3	4477.5
5°	4516.6	4518.5	4496.1	4484.9	4477.5	4470.0	4470.0	4475.6	4490.5	4501.7	4501.7
7.5°	4572.5	4572.5	4540.8	4520.3	4509.1	4496.1	4492.4	4494.2	4505.4	4520.3	4522.2
10°	4660.1	4652.7	4611.7	4580.0	4559.5	4527.8	4499.8	4484.9	4490.5	4499.8	4499.8
12.5°	4766.4	4745.9	4693.7	4650.8	4600.5	4540.8	4483.0	4453.2	4451.4	4460.7	4456.9
15°	4880.1	4857.7	4785.0	4706.7	4619.1	4531.5	4462.5	4419.7	4386.1	4376.8	4397.3
17.5°	5012.4	4965.8	4865.2	4757.1	4626.6	4512.9	4404.8	4317.1	4257.5	4240.7	4246.3
20°	5172.7	5111.2	4975.2	4805.5	4621.0	4445.8	4278.0	4160.6	4063.6	4033.8	4037.5
22.5°	5394.6	5288.3	5088.9	4829.8	4574.4	4319.0	4086.0	3933.1	3815.7	3769.1	3797.1
25°	5646.2	5530.6	5197.0	4824.2	4453.2	4115.8	3858.6	3659.1	3552.9	3483.9	3498.8
27.5°	5992.9	5787.9	5312.5	4773.8	4279.9	3867.9	3569.7	3381.4	3284.5	3249.0	3265.8
30°	6436.6	6121.5	5437.4	4637.8	4005.8	3554.7	3278.9	3155.8	3098.1	3053.3	3068.2
32.5°	6757.2	6356.4	5465.4	4408.5	3709.5	3269.5	3081.3	2989.9	2926.6	2883.7	2893.0
35°	6986.5	6555.9	5452.4	4127.0	3400.0	3034.7	2924.7	2850.1	2747.6	2654.4	2637.6
37.5°	7294.0	6805.7	5357.3	3819.4	3094.3	2876.2	2797.9	2660.0	2512.7	2387.9	2382.3
40°	7765.6	7098.3	5154.1	3457.8	2833.4	2758.8	2663.7	2484.8	2326.3	2225.7	2218.2
42.5°	8252.2	7368.6	4878.2	3077.5	2619.0	2635.8	2520.2	2343.1	2246.2	2180.9	2173.5
45°	8846.8	7661.3	4580.0	2747.6	2460.5	2520.2	2395.3	2292.8	2235.0	2192.1	2180.9
47.5°	9489.9	7961.4	4244.4	2451.2	2326.3	2413.9	2343.1	2296.5	2264.8	2235.0	2221.9
50°	10183.3	8296.9	3929.4	2212.6	2205.2	2304.0	2337.5	2320.7	2302.1	2292.8	2281.6
52.5°	10943.8	8639.9	3664.7	2044.9	2098.9	2225.7	2339.4	2352.4	2352.4	2346.8	2339.4
55°	11458.3	8878.5	3396.3	1908.8	1990.8	2162.3	2335.7	2386.0	2404.6	2397.2	2389.7
57.5°	11838.6	9009.0	3058.9	1791.4	1899.5	2100.8	2315.2	2389.7	2408.4	2417.7	2413.9
60°	11916.9	8887.8	2617.1	1668.3	1800.7	2011.3	2240.6	2333.8	2358.0	2415.8	2421.4
62.5°	11564.6	8515.0	2177.2	1547.2	1679.5	1875.2	2139.9	2270.4	2318.9	2408.4	2417.7
64°	11132.1	8097.4	1933.0	1470.7	1601.2	1798.8	2089.6	2253.6	2317.0	2436.3	2443.8
65°	10815.2	7793.6	1780.2	1422.3	1550.9	1748.5	2061.6	2259.2	2333.8	2479.2	2490.4
67.5°	9648.3	6747.9	1472.6	1308.6	1431.6	1662.7	2067.2	2305.8	2330.1	2496.0	2494.1
70°	7983.7	5372.2	1234.0	1204.2	1316.0	1593.8	2044.9	2231.3	2233.1	2343.1	2317.0
72.5°	5978.0	3970.4	1070.0	1096.1	1187.4	1429.7	1931.2	2130.6	2098.9	2113.8	2087.7
75°	4106.5	2626.4	920.8	980.5	1053.2	1263.8	1770.8	1934.9	1884.6	1865.9	1847.3
77.5°	2192.1	1452.1	766.1	866.8	915.2	1092.3	1545.3	1703.7	1651.5	1578.9	1554.6
80°	887.3	684.1	617.0	717.7	745.6	879.8	1286.2	1385.0	1345.8	1219.1	1178.1
82.5°	445.5	410.1	484.7	564.8	566.7	628.2	956.3	1049.5	961.9	807.1	771.7
85°	233.0	240.5	333.7	397.0	350.4	339.3	574.1	635.6	583.4	507.0	456.7
87.5°	83.9	96.9	175.2	173.4	123.0	65.2	126.8	61.5	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)