

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: P531911

Luminaire Tested: **GALN-SA7B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20158 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 286
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

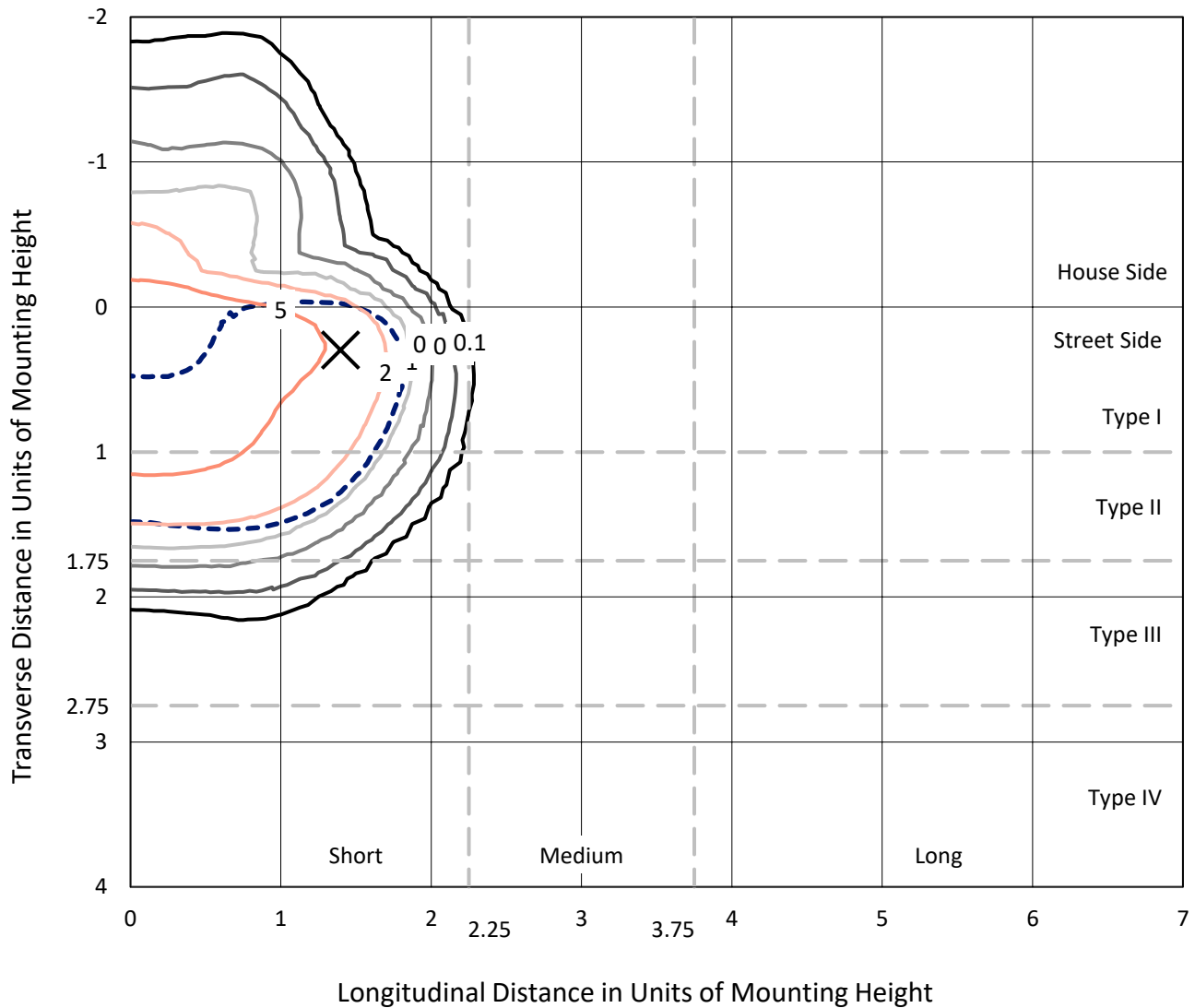


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

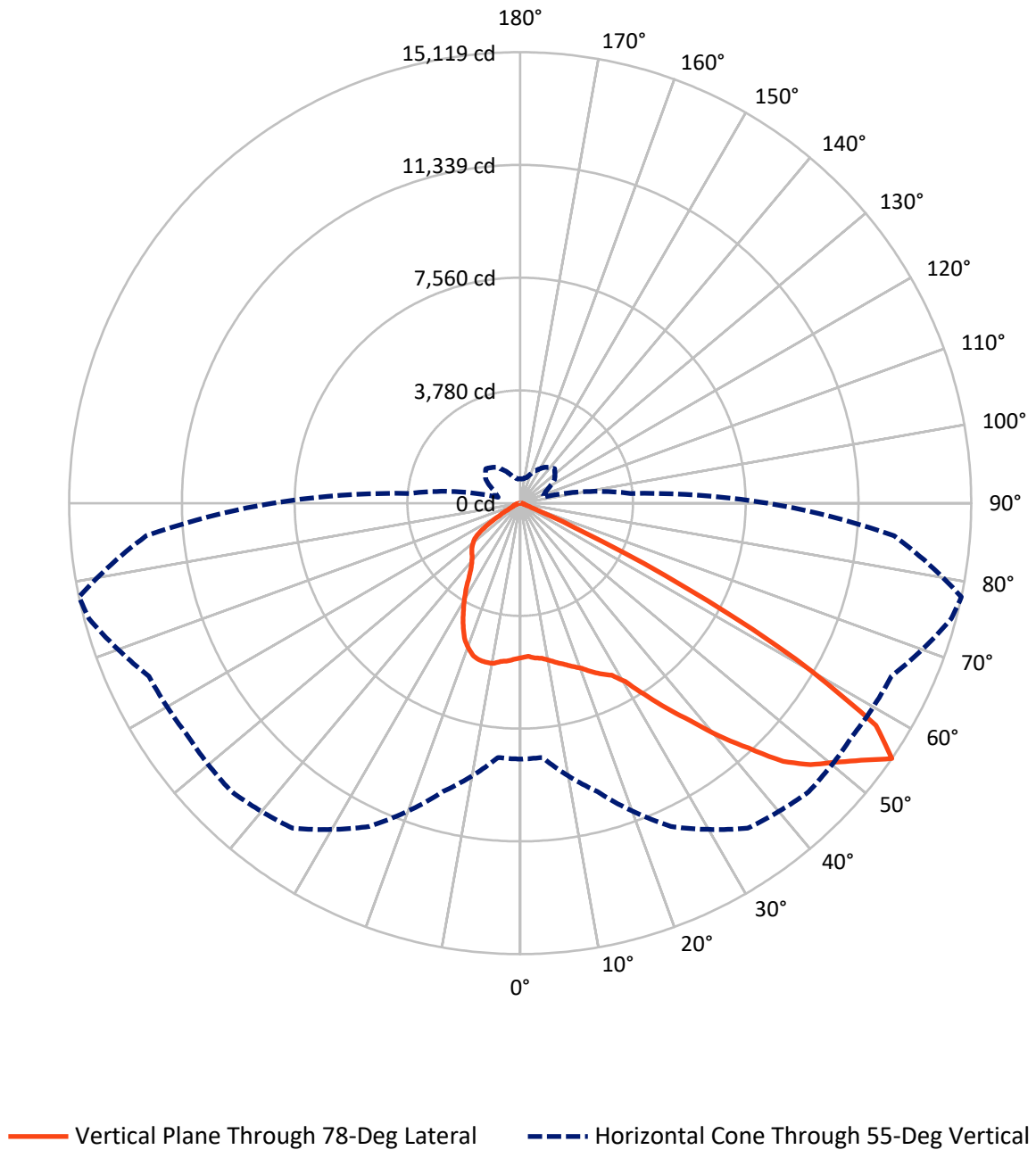


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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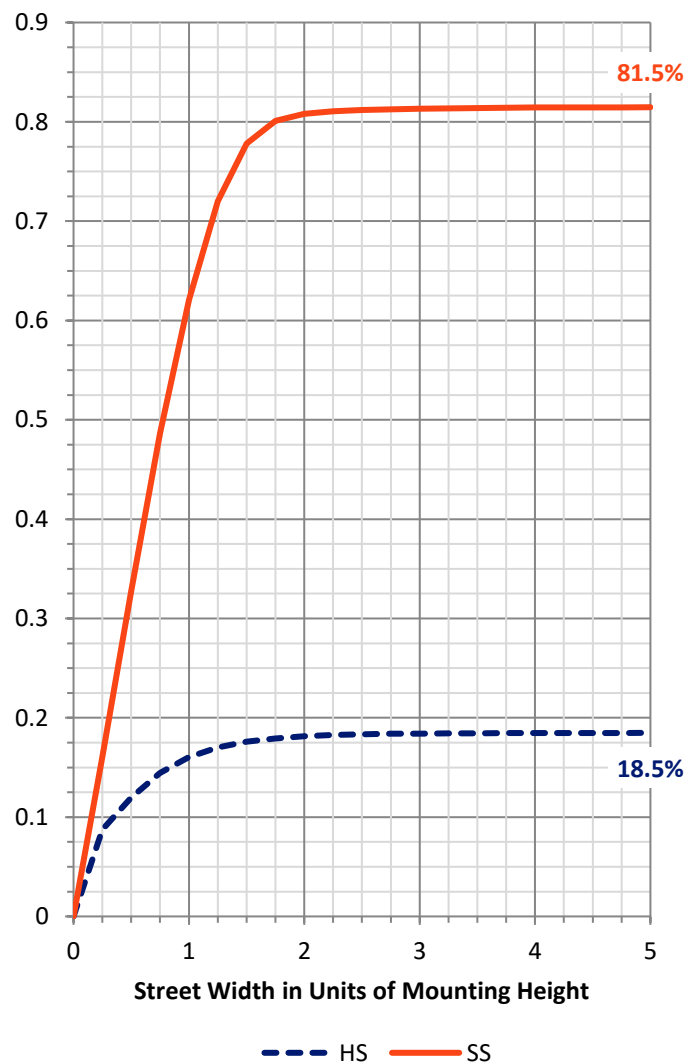
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3744.1	0.0	3744.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16413.9	0.0	16413.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	20158.0	0.0	20158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.1	2.3
10°-20°	1223.0	6.1
20°-30°	2143.7	10.6
30°-40°	3534.8	17.5
40°-50°	5143.5	25.5
50°-60°	5828.1	28.9
60°-70°	1666.4	8.3
70°-80°	129.4	0.6
80°-90°	26.9	0.1
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°	20158.0	100.0
0°-180°	20158.0	100.0

Coefficient of Utilization



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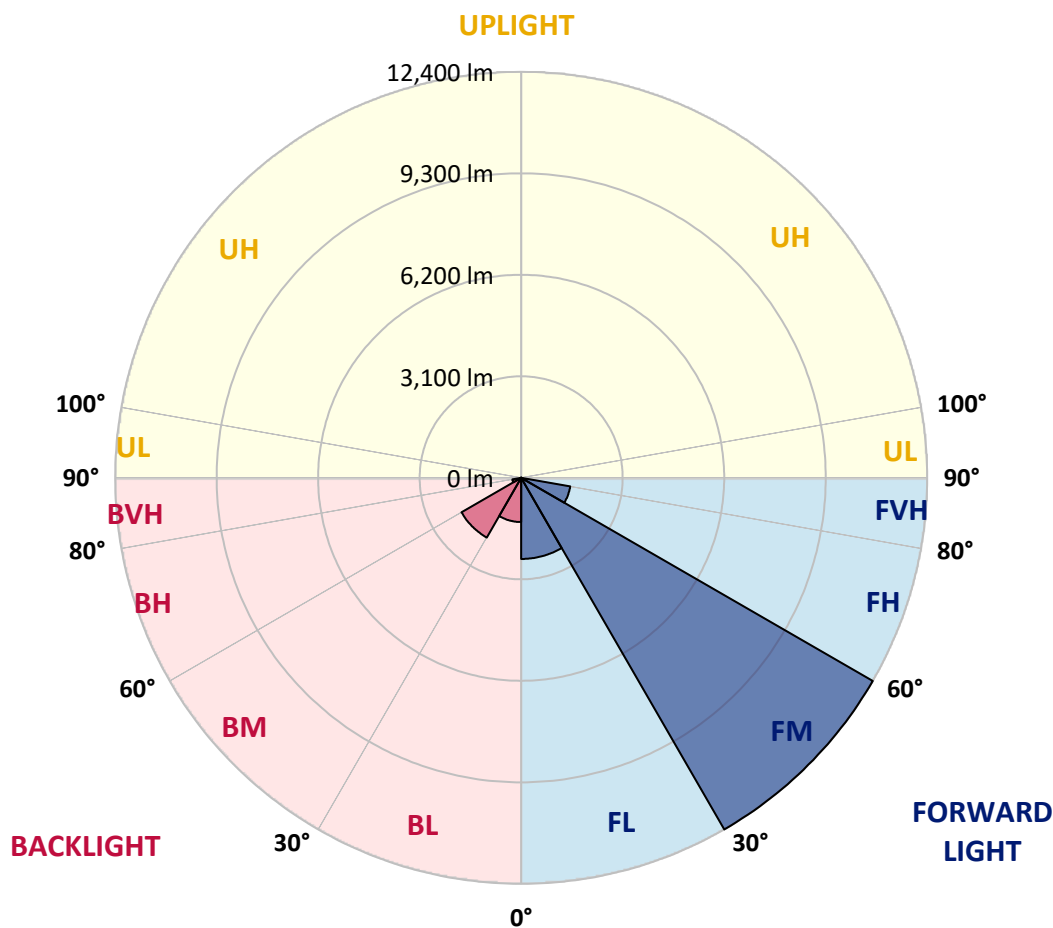
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2478.0	12.3			
FM	(30°-60°)	12400.3	61.5			
FH	(60°-80°)	1522.5	7.6			G1/1800
FVH	(80°-90°)	13.1	0.1			G1/100
BL	(0°-30°)	1350.9	6.7	B3/2500		
BM	(30°-60°)	2106.1	10.4	B2/2500		
BH	(60°-80°)	273.3	1.4	B1/500		G1/500
BVH	(80°-90°)	13.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6
2.5°	4872.7	4919.5	4926.7	4984.4	4980.8	5078.1	5106.9	5110.6	5175.4	5143.0	5225.9
5°	4735.7	4710.5	4699.7	4800.6	4829.4	4915.9	4988.0	5031.3	5164.6	5211.5	5298.0
7.5°	4613.2	4613.2	4620.4	4710.5	4699.7	4811.4	4887.1	5020.5	5215.1	5254.7	5359.2
10°	4494.3	4451.0	4505.1	4598.8	4678.1	4728.5	4887.1	5013.2	5240.3	5355.6	5499.8
12.5°	4433.0	4454.6	4461.8	4530.3	4616.8	4768.2	4854.7	5063.7	5420.5	5489.0	5644.0
15°	4818.6	4775.4	4670.9	4609.6	4681.7	4753.8	4970.0	5182.6	5514.2	5611.5	5784.5
17.5°	5265.5	5229.5	5143.0	4977.2	4815.0	4948.4	5117.8	5312.4	5615.1	5759.3	6015.2
20°	5849.4	5791.7	5705.2	5380.9	5240.3	5096.1	5276.3	5507.0	5780.9	5910.7	6173.7
22.5°	6545.0	6545.0	6350.3	5957.5	5665.6	5528.6	5604.3	5737.7	5964.7	6141.3	6400.8
25°	7269.4	7247.8	7071.2	6663.9	6170.1	6008.0	6094.5	6188.2	6249.4	6346.7	6519.7
27.5°	8098.3	7972.2	7748.7	7298.2	6862.1	6548.6	6642.3	6559.4	6483.7	6534.2	6782.8
30°	8660.5	8739.8	8455.1	8022.6	7611.8	7262.2	7280.2	7208.1	6862.1	6934.2	7082.0
32.5°	9244.4	9294.9	9136.3	8898.4	8487.6	8080.3	7932.5	7871.3	7611.8	7644.2	7500.0
35°	9731.0	9828.3	9687.7	9583.2	9464.3	9136.3	8729.0	8927.2	8509.2	8429.9	8055.1
37.5°	10177.9	10149.0	10314.8	10206.7	10181.5	9950.8	9503.9	9543.5	9262.4	9244.4	8811.9
40°	10577.9	10585.1	10812.2	10862.6	10761.7	10350.9	9702.1	10015.7	10242.7	10264.4	9709.3
42.5°	10909.5	11006.8	11201.4	11608.7	11457.3	10772.5	9907.6	10249.9	11093.3	11226.6	10559.9
45°	11197.8	11396.0	11637.5	12001.5	11915.0	11370.8	10419.3	10732.9	12001.5	12351.1	11360.0
47.5°	11215.8	11475.3	11738.4	12279.0	12387.1	11691.6	10949.1	11496.9	12722.3	13100.7	11943.8
50°	11143.7	11280.7	11806.9	12394.4	12639.4	12214.1	11691.6	12138.5	13421.5	13659.4	12239.4
52.5°	10289.6	10394.1	11450.1	12502.5	13093.5	12805.2	12675.5	13032.3	14135.1	14311.7	12516.9
55°	8577.7	8559.6	10012.1	11958.3	13302.6	13681.0	13601.7	13727.9	14960.4	15119.0	12585.4
57.5°	5867.4	6195.4	7449.6	9958.0	12023.1	13475.6	13558.5	13349.4	13998.2	14059.4	10970.7
60°	3164.4	3301.3	4310.5	6645.9	9154.3	10981.6	11197.8	10819.4	10768.9	10595.9	7831.6
62.5°	1257.8	1326.3	1899.3	3290.5	4988.0	6674.7	7139.6	6984.7	6653.1	6199.0	4054.6
65°	598.3	641.5	944.3	1538.9	2212.9	2782.3	3247.3	3391.4	2501.2	2252.5	1337.1
67.5°	407.3	439.7	688.4	879.4	789.3	825.3	1074.0	998.3	587.5	501.0	371.2
70°	309.9	331.6	551.4	598.3	353.2	248.7	277.5	259.5	241.5	245.1	241.5
72.5°	219.8	237.9	403.7	353.2	155.0	115.3	147.8	176.6	176.6	176.6	173.0
75°	133.4	151.4	234.3	137.0	61.3	61.3	93.7	118.9	126.1	129.7	122.5
77.5°	68.5	86.5	79.3	39.6	39.6	46.9	68.5	82.9	90.1	90.1	86.5
80°	14.4	14.4	14.4	21.6	39.6	50.5	68.5	75.7	86.5	86.5	79.3
82.5°	0.0	3.6	10.8	21.6	36.0	46.9	64.9	75.7	86.5	90.1	82.9
85°	0.0	3.6	7.2	14.4	25.2	28.8	25.2	21.6	21.6	21.6	21.6
87.5°	0.0	0.0	3.6	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2
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°	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6	5182.6
2.5°	5233.1	5243.9	5225.9	5222.3	5207.9	5251.1	5146.6	5121.4	5186.2	5125.0	5139.4
5°	5301.6	5326.8	5294.4	5240.3	5161.0	5038.5	4934.0	4797.0	4732.1	4685.3	4678.1
7.5°	5352.0	5370.0	5337.6	5164.6	4926.7	4616.8	4386.1	4216.7	4083.4	4043.8	3978.9
10°	5557.5	5561.1	5398.9	5016.8	4551.9	4144.7	3791.5	3532.0	3398.6	3315.7	3279.7
12.5°	5694.4	5687.2	5359.2	4724.9	4105.0	3564.4	3160.8	2847.2	2724.7	2685.0	2659.8
15°	5867.4	5827.8	5265.5	4425.8	3528.4	2944.5	2580.5	2364.3	2353.4	2328.2	2353.4
17.5°	6004.4	5892.6	5128.6	3881.6	2977.0	2425.5	2187.7	2202.1	2230.9	2256.1	2259.7
20°	6227.8	5997.2	4815.0	3405.8	2465.2	2079.5	2075.9	2140.8	2212.9	2241.7	2270.6
22.5°	6397.2	6040.4	4479.8	2897.7	2047.1	1939.0	2000.3	2097.6	2151.6	2180.5	2223.7
25°	6458.5	5921.5	4032.9	2389.5	1845.3	1874.1	1967.8	2032.7	2101.2	2133.6	2115.6
27.5°	6519.7	5860.2	3499.5	1967.8	1737.2	1830.9	1910.2	1975.0	1996.6	2039.9	2068.7
30°	6667.5	5647.6	3020.2	1701.1	1683.1	1802.0	1859.7	1881.3	1939.0	1964.2	1964.2
32.5°	6786.4	5564.7	2512.0	1575.0	1675.9	1816.4	1823.7	1823.7	1830.9	1812.8	1805.6
35°	7031.5	5279.9	2057.9	1499.3	1672.3	1820.0	1838.1	1776.8	1611.0	1546.1	1528.1
37.5°	7334.3	5096.1	1722.7	1481.3	1697.5	1863.3	1892.1	1661.5	1445.2	1340.7	1322.7
40°	7701.9	4966.4	1502.9	1474.1	1755.2	1964.2	1877.7	1571.4	1290.3	1138.9	1131.7
42.5°	8130.8	4847.5	1355.1	1470.5	1827.3	2068.7	1863.3	1495.7	1131.7	1030.8	1045.2
45°	8473.1	4782.6	1254.2	1445.2	1852.5	2130.0	1874.1	1362.3	1066.8	1001.9	1009.1
47.5°	8739.8	4645.6	1171.3	1402.0	1848.9	2151.6	1776.8	1308.3	1034.4	1052.4	1070.4
50°	8747.0	4461.8	1066.8	1308.3	1794.8	2112.0	1665.1	1257.8	1027.2	1102.8	1138.9
52.5°	8649.7	4202.3	955.1	1174.9	1668.7	1975.0	1564.2	1236.2	994.7	987.5	1030.8
55°	8303.7	3715.8	767.7	951.5	1409.2	1629.0	1474.1	1196.5	897.4	814.5	821.7
57.5°	6710.8	2663.4	565.8	681.2	998.3	1192.9	1329.9	1178.5	807.3	692.0	695.6
60°	4155.5	1510.1	414.5	464.9	616.3	724.4	1077.6	1095.6	720.8	583.9	576.6
62.5°	2133.6	746.0	320.8	328.0	378.4	425.3	738.8	919.0	652.3	555.0	555.0
65°	713.6	367.6	281.1	252.3	252.3	263.1	446.9	637.9	551.4	464.9	464.9
67.5°	306.3	273.9	245.1	219.8	201.8	191.0	252.3	371.2	410.9	353.2	338.8
70°	237.9	230.7	212.6	183.8	158.6	144.2	147.8	191.0	234.3	227.1	219.8
72.5°	176.6	176.6	169.4	144.2	122.5	104.5	97.3	100.9	111.7	115.3	118.9
75°	122.5	126.1	126.1	111.7	90.1	75.7	64.9	54.1	43.2	36.0	32.4
77.5°	82.9	86.5	93.7	82.9	68.5	50.5	39.6	28.8	18.0	7.2	7.2
80°	72.1	82.9	90.1	82.9	72.1	54.1	39.6	21.6	10.8	0.0	0.0
82.5°	75.7	82.9	93.7	79.3	68.5	50.5	39.6	25.2	10.8	3.6	0.0
85°	18.0	18.0	21.6	25.2	32.4	36.0	28.8	18.0	10.8	3.6	0.0
87.5°	7.2	7.2	7.2	7.2	7.2	3.6	3.6	3.6	3.6	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)