

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: P953412

Luminaire Tested: **GALN-SB7A-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26842 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 199.1
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



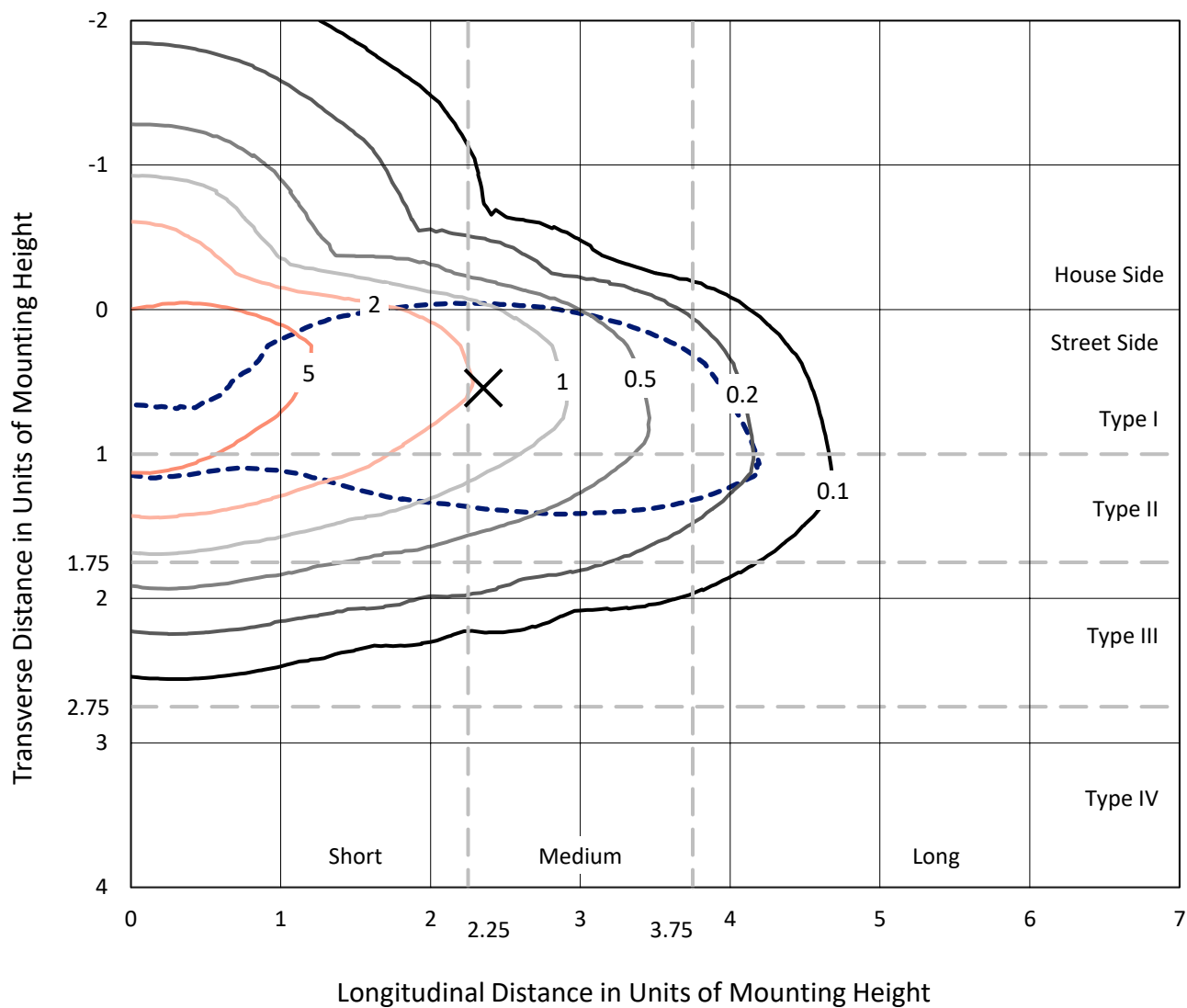
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

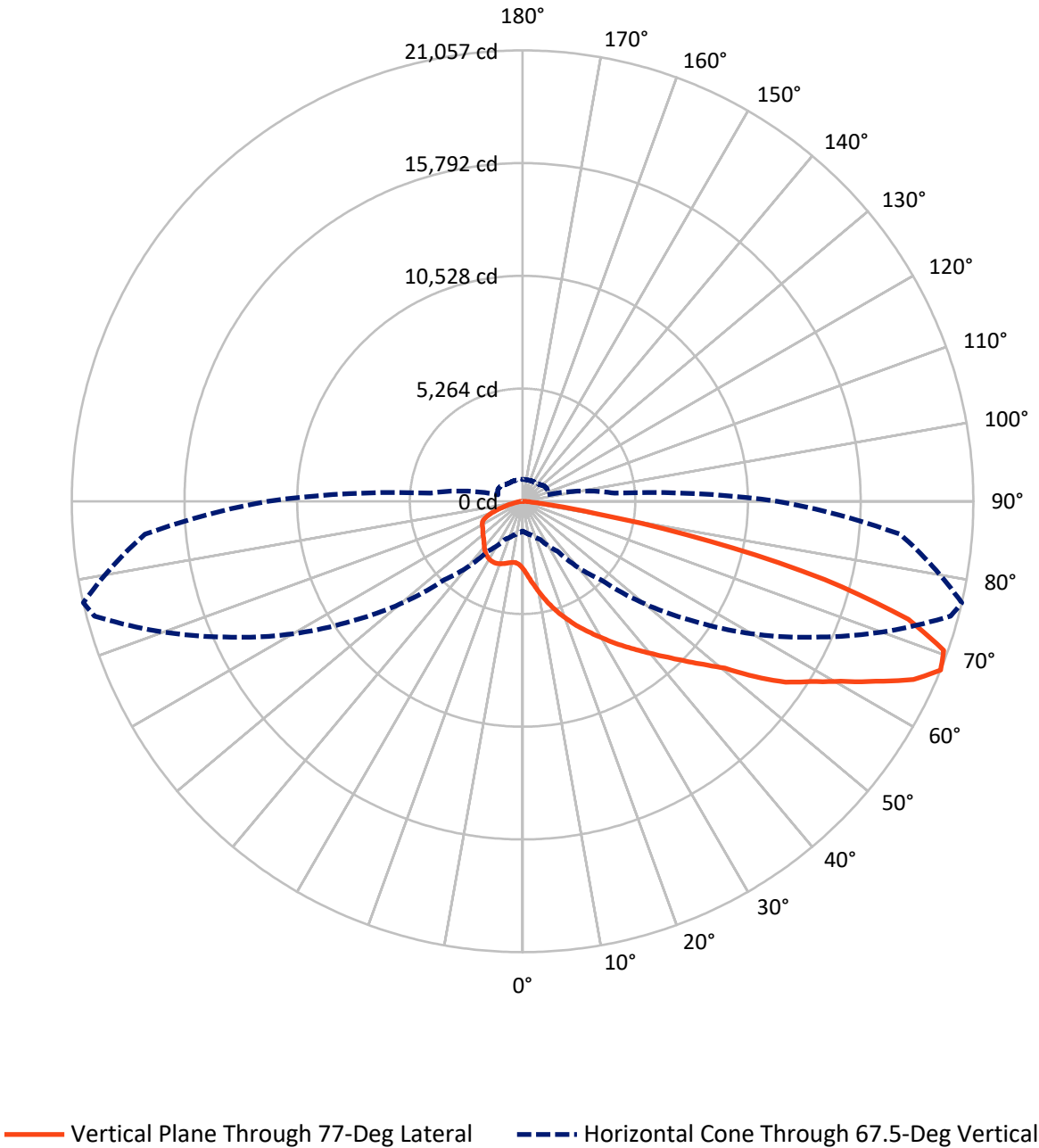
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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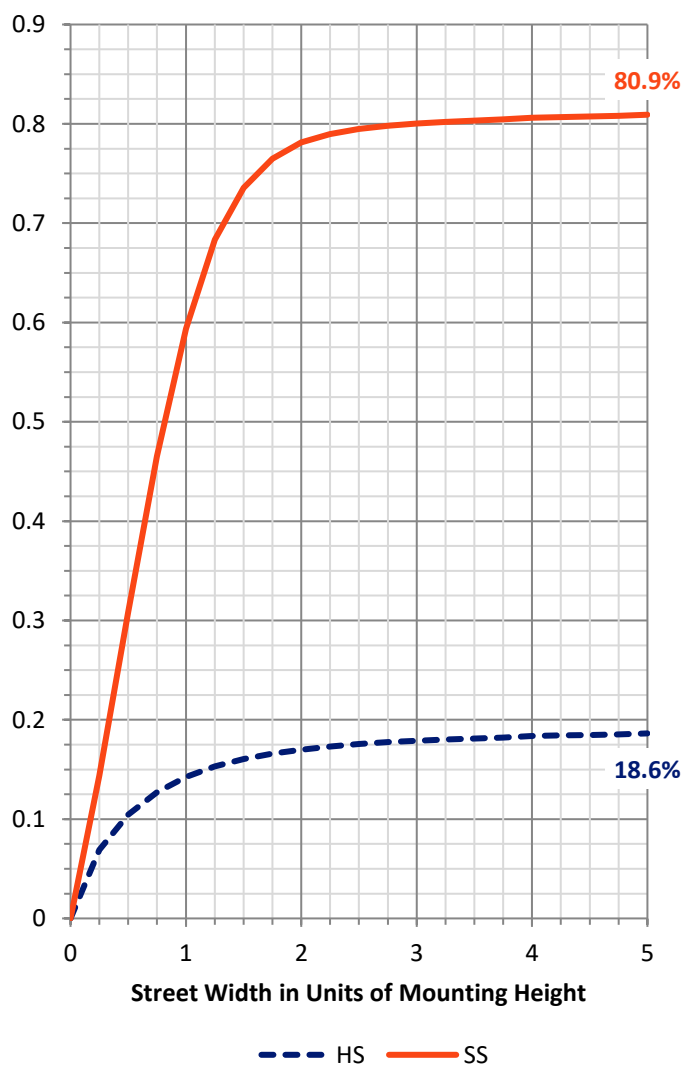
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5077.4	0.0	5077.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	21764.6	0.0	21764.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	26842.0	0.0	26842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.3
10°-20°	1212.8	4.5
20°-30°	2289.8	8.5
30°-40°	3688.9	13.7
40°-50°	5045.7	18.8
50°-60°	5691.6	21.2
60°-70°	5312.4	19.8
70°-80°	2912.1	10.8
80°-90°	351.3	1.3
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°	26842.0	100.0
0°-180°	26842.0	100.0

Coefficient of Utilization



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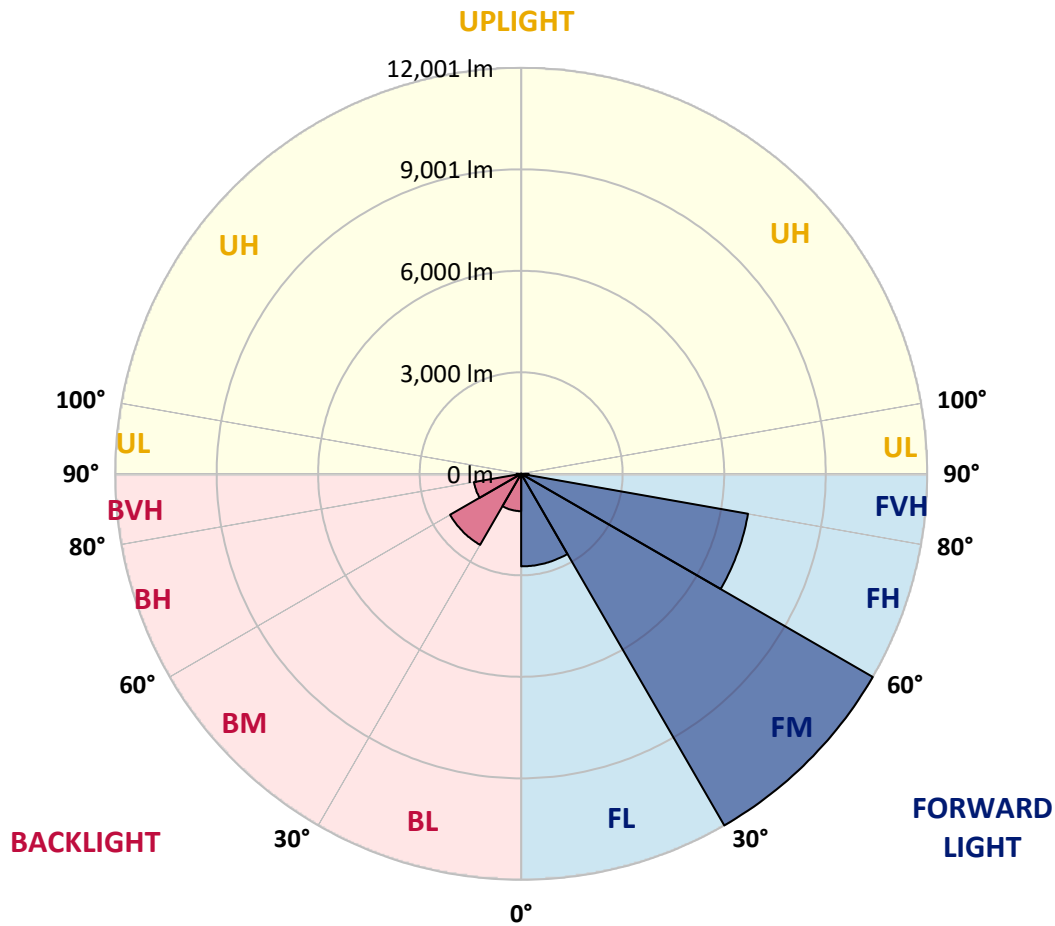
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2736.2	10.2			
FM	(30°-60°)	12000.8	44.7			
FH	(60°-80°)	6807.9	25.4			G3/7500
FVH	(80°-90°)	219.7	0.8			G2/225
BL	(0°-30°)	1104.0	4.1	B3/2500		
BM	(30°-60°)	2425.4	9.0	B2/2500		
BH	(60°-80°)	1416.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	131.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4
2.5°	3943.3	3971.0	3936.4	3936.4	3820.0	3759.1	3642.7	3554.0	3394.6	3366.9	3261.6
5°	4661.1	4695.7	4647.2	4626.4	4489.2	4363.2	4167.8	3975.2	3691.2	3662.1	3414.0
7.5°	5216.7	5261.0	5218.1	5195.9	5074.0	4932.6	4704.0	4435.2	4034.8	3978.0	3619.1
10°	5669.8	5676.7	5662.8	5671.1	5575.5	5459.1	5225.0	4911.8	4411.7	4334.1	3867.1
12.5°	5926.1	5958.0	5985.7	6035.5	6018.9	5946.9	5736.3	5362.2	4810.7	4710.9	4137.3
15°	6046.6	6102.1	6164.4	6279.4	6372.2	6390.2	6229.5	5845.7	5216.7	5096.1	4410.3
17.5°	6089.6	6142.2	6240.6	6406.9	6606.4	6740.8	6668.7	6315.4	5618.5	5479.9	4697.1
20°	6307.1	6322.4	6381.9	6539.9	6756.0	6979.1	7033.2	6767.1	6016.1	5859.6	4993.6
22.5°	6772.7	6742.2	6758.8	6830.9	6986.0	7202.2	7325.5	7166.2	6424.9	6244.8	5292.9
25°	7541.7	7453.0	7364.3	7281.2	7360.1	7482.1	7622.0	7565.2	6853.0	6624.4	5594.9
27.5°	8512.9	8404.9	8209.5	7936.5	7840.9	7883.9	7946.2	7935.2	7249.3	7017.9	5906.7
30°	9469.0	9342.9	9110.1	8715.2	8463.1	8349.4	8302.3	8270.5	7680.2	7433.6	6221.2
32.5°	10232.4	10132.7	9904.1	9462.1	9096.3	8902.3	8745.7	8632.1	8130.5	7883.9	6553.7
35°	10900.3	10807.4	10545.6	10063.4	9665.7	9459.3	9254.2	9011.7	8598.8	8349.4	6911.2
37.5°	11509.9	11417.1	11058.2	10556.7	10156.2	10013.5	9830.6	9419.1	9068.6	8833.0	7289.5
40°	11895.1	11874.3	11539.0	10970.9	10555.3	10484.6	10423.6	9891.6	9589.5	9370.6	7705.2
42.5°	11993.5	12039.2	11773.2	11306.3	10910.0	10853.2	10995.9	10426.4	10174.2	9965.0	8176.2
45°	11756.6	11888.2	11713.6	11396.3	11162.2	11131.7	11503.0	11011.1	10821.3	10630.1	8744.3
47.5°	11156.6	11379.7	11307.6	11263.3	11230.0	11361.7	11949.2	11631.9	11554.3	11388.0	9392.8
50°	9945.6	10368.2	10494.3	10774.2	11095.6	11540.4	12355.1	12309.4	12410.6	12242.9	10182.6
52.5°	7852.0	8434.0	9165.5	9866.6	10682.7	11480.8	12801.3	13282.1	13708.8	13617.4	11437.9
55°	6481.7	6743.6	7306.1	8591.9	9881.9	11230.0	13002.2	14067.7	14997.4	14915.7	12389.8
57.5°	5428.7	5662.8	6009.2	7083.0	8670.9	10660.6	13126.9	14547.1	15880.0	15871.7	13329.2
60°	4299.4	4547.4	4902.1	5662.8	7256.2	9676.8	13099.2	15093.0	17006.5	17075.8	14475.0
62.5°	3024.7	3297.7	3691.2	4400.6	5811.1	8402.1	12533.9	15487.9	18332.5	18520.9	15853.7
65°	1988.3	2168.4	2464.9	3077.4	4329.9	6763.0	11454.5	15539.2	19751.3	20070.0	17147.8
67.5°	1393.9	1463.2	1637.7	1970.3	2854.3	5186.2	9735.0	15008.5	20697.6	21056.5	17709.0
70°	1087.7	1122.3	1211.0	1344.0	1792.9	3487.5	7459.9	13628.5	20495.4	20869.5	17122.9
72.5°	939.4	972.7	1005.9	1022.6	1202.7	2153.2	5053.2	11394.9	18590.2	18843.8	14887.9
75°	852.1	860.4	888.2	882.6	917.2	1396.7	2916.6	8302.3	14667.6	14580.4	10990.3
77.5°	716.3	727.4	773.1	766.2	814.7	954.7	1514.4	5358.0	9509.2	8916.1	6117.3
80°	606.9	612.4	662.3	654.0	708.0	691.4	773.1	2731.0	4033.4	3416.8	1763.8
82.5°	210.6	260.5	505.7	521.0	540.4	418.4	446.2	1114.0	1231.8	943.6	369.9
85°	102.5	109.5	257.7	365.8	364.4	210.6	217.5	397.7	388.0	304.8	123.3
87.5°	16.6	20.8	30.5	142.7	113.6	55.4	74.8	77.6	80.4	69.3	27.7
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°	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4	3149.4
2.5°	3184.0	3114.8	2969.3	2834.9	2729.6	2628.4	2571.6	2523.1	2495.4	2489.9	2489.9
5°	3269.9	3127.2	2862.6	2639.5	2494.0	2386.0	2329.1	2293.1	2275.1	2264.0	2262.6
7.5°	3393.3	3184.0	2807.2	2553.6	2401.2	2323.6	2294.5	2289.0	2287.6	2289.0	2293.1
10°	3563.7	3276.9	2801.6	2532.8	2405.3	2362.4	2361.0	2362.4	2367.9	2369.3	2370.7
12.5°	3748.0	3372.5	2823.8	2550.8	2458.0	2434.4	2430.3	2428.9	2433.1	2435.8	2437.2
15°	3948.9	3498.6	2861.2	2589.6	2516.2	2491.3	2487.1	2478.8	2477.4	2476.0	2474.6
17.5°	4155.3	3623.3	2902.8	2631.2	2553.6	2519.0	2503.7	2484.3	2469.1	2464.9	2469.1
20°	4364.5	3746.6	2931.9	2652.0	2556.4	2507.9	2477.4	2444.1	2417.8	2402.6	2408.1
22.5°	4587.6	3875.4	2949.9	2646.4	2531.4	2464.9	2409.5	2370.7	2330.5	2304.2	2305.6
25°	4805.2	3987.7	2948.5	2617.3	2482.9	2398.4	2327.8	2277.9	2222.5	2194.7	2194.7
27.5°	5014.4	4088.8	2913.9	2566.1	2413.7	2319.4	2234.9	2175.3	2121.3	2095.0	2093.6
30°	5230.5	4173.3	2859.8	2491.3	2331.9	2228.0	2135.2	2083.9	2035.4	2010.5	2009.1
32.5°	5445.3	4250.9	2783.6	2398.4	2237.7	2137.9	2046.5	1999.4	1970.3	1970.3	1971.7
35°	5672.5	4305.0	2682.5	2290.3	2137.9	2042.3	1970.3	1942.6	1939.8	1923.2	1919.0
37.5°	5912.2	4339.6	2559.1	2179.5	2039.6	1949.5	1927.3	1894.1	1866.4	1830.3	1824.8
40°	6164.4	4374.2	2410.9	2064.5	1935.6	1885.8	1876.1	1831.7	1752.7	1664.1	1651.6
42.5°	6470.6	4397.8	2257.1	1949.5	1826.2	1809.6	1823.4	1747.2	1621.1	1554.6	1556.0
45°	6825.3	4436.6	2115.8	1835.9	1714.0	1714.0	1772.1	1672.4	1568.5	1526.9	1533.8
47.5°	7285.3	4526.7	1984.1	1711.2	1610.0	1637.7	1658.5	1582.3	1524.1	1472.9	1471.5
50°	7950.4	4742.8	1848.4	1585.1	1531.1	1586.5	1557.4	1513.0	1445.1	1403.6	1399.4
52.5°	8776.2	4870.3	1727.8	1471.5	1463.2	1518.6	1477.0	1435.5	1384.2	1328.8	1317.7
55°	9338.7	4893.8	1626.7	1388.3	1417.4	1411.9	1396.7	1359.2	1331.5	1258.1	1259.5
57.5°	9967.8	4940.9	1543.5	1338.5	1388.3	1327.4	1321.8	1290.0	1253.9	1204.1	1187.4
60°	10720.2	5014.4	1471.5	1319.1	1363.4	1272.0	1244.2	1231.8	1195.7	1170.8	1177.7
62.5°	11540.4	5080.9	1398.0	1321.8	1334.3	1217.9	1176.3	1172.2	1150.0	1141.7	1141.7
65°	12100.2	4899.4	1306.6	1319.1	1288.6	1162.5	1109.8	1108.5	1090.4	1087.7	1086.3
67.5°	11904.8	4324.4	1183.3	1280.3	1241.5	1107.1	1048.9	1043.3	1019.8	1021.2	1021.2
70°	10926.6	3504.1	1012.9	1184.7	1183.3	1057.2	985.1	967.1	935.3	940.8	946.3
72.5°	9092.1	2596.6	784.2	1025.3	1090.4	1011.5	911.7	882.6	842.4	848.0	846.6
75°	6566.2	1765.2	570.9	780.1	949.1	957.4	839.7	789.8	741.3	749.6	752.4
77.5°	3360.0	1000.4	419.8	537.6	745.4	870.1	774.5	708.0	696.9	774.5	763.4
80°	1096.0	501.6	291.0	376.9	489.1	712.2	678.9	602.7	600.0	618.0	530.7
82.5°	327.0	212.0	187.1	248.0	270.2	545.9	586.1	455.9	392.1	412.9	426.8
85°	112.2	102.5	106.7	123.3	128.9	320.1	410.1	302.1	285.4	314.5	310.4
87.5°	26.3	36.0	30.5	27.7	27.7	77.6	159.3	126.1	174.6	116.4	112.2
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)