

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: STREETWORKS

Report Number: P966801

Luminaire Tested: **NVN-SB4C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966801
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: STREETWORKS
Catalog Number: NVN-SB4C-827-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27248.6 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

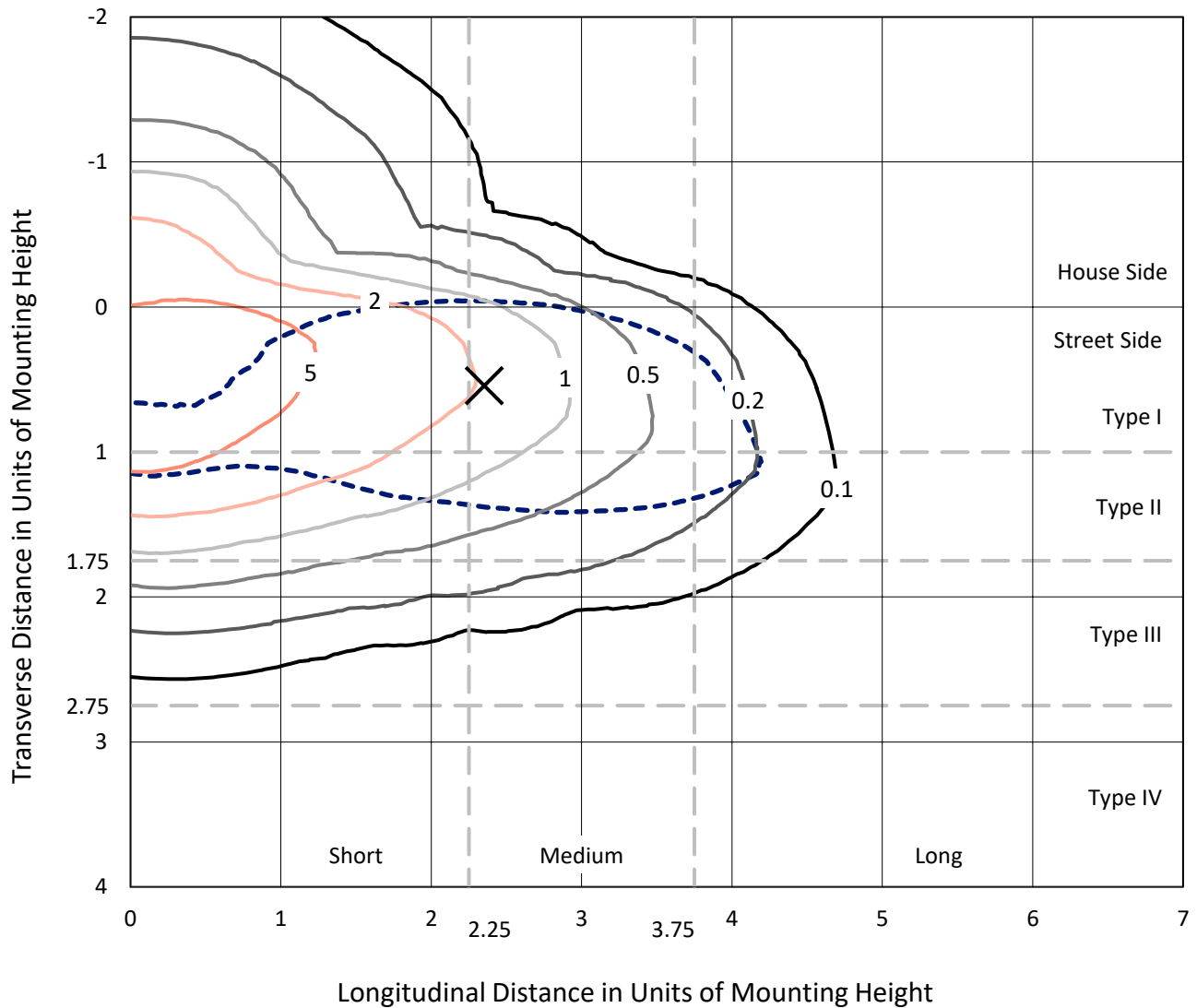
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

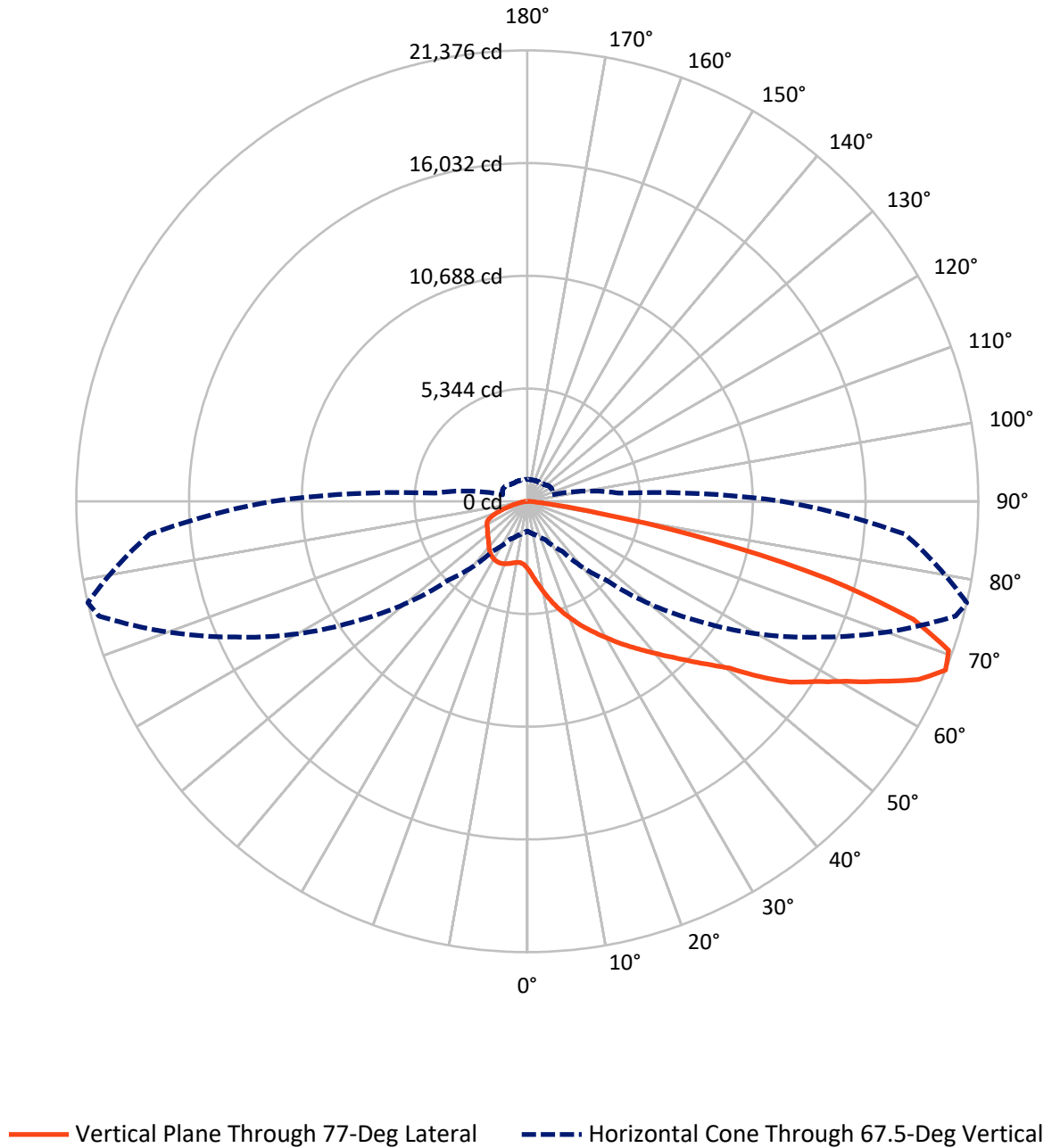
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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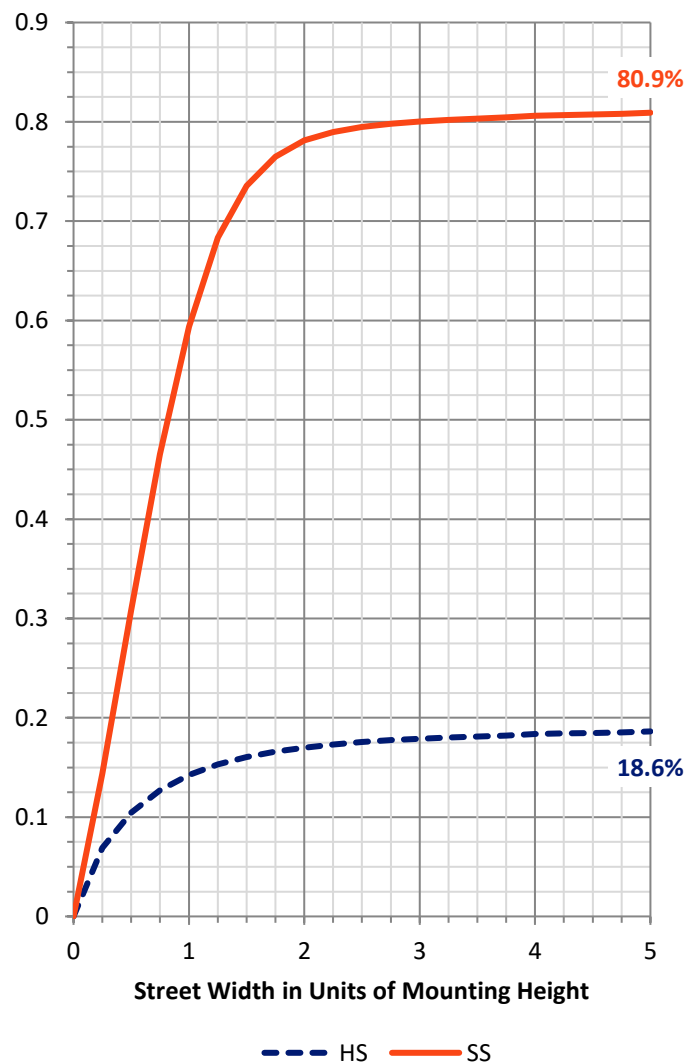
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5154.3	0.0	5154.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22094.3	0.0	22094.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	27248.6	0.0	27248.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.3
10°-20°	1231.1	4.5
20°-30°	2324.5	8.5
30°-40°	3744.7	13.7
40°-50°	5122.1	18.8
50°-60°	5777.8	21.2
60°-70°	5392.8	19.8
70°-80°	2956.2	10.8
80°-90°	356.6	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°	27248.6	100.0
0°-180°	27248.6	100.0

Coefficient of Utilization



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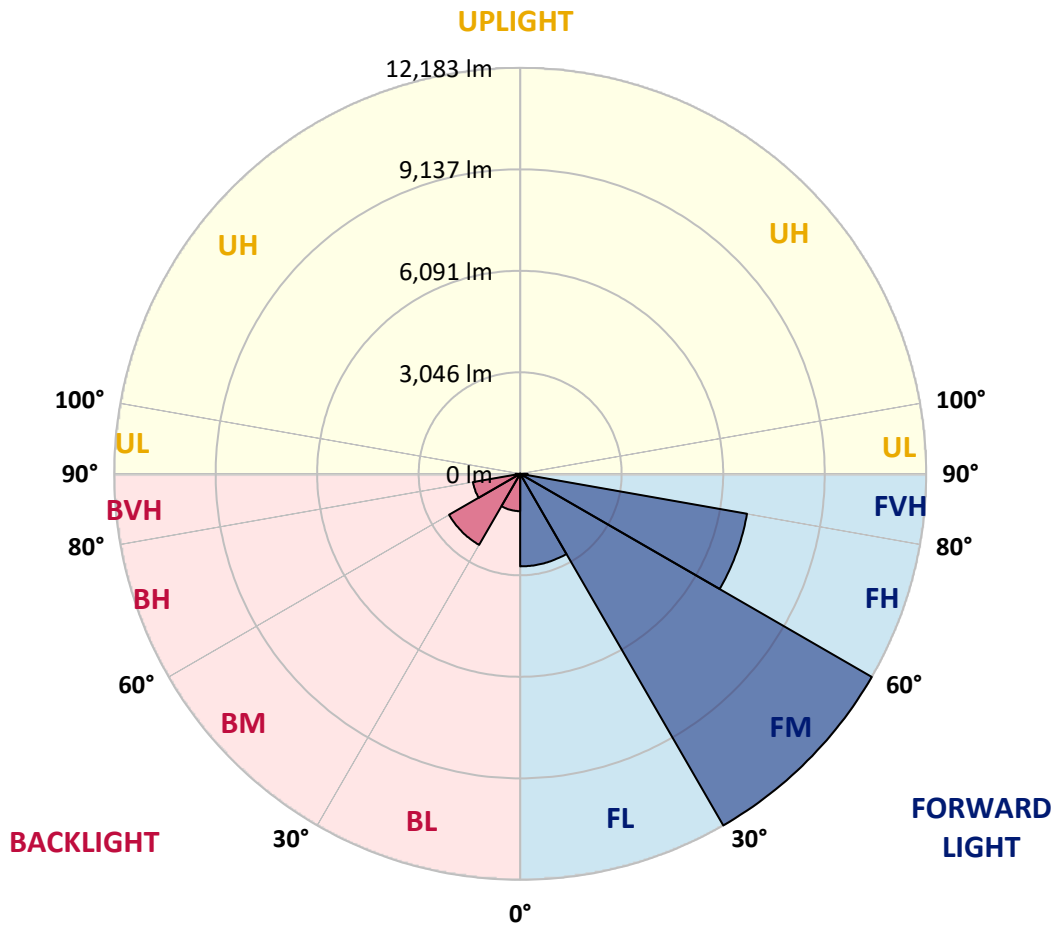
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.7	10.2			
FM (30°-60°)	12182.6	44.7			
FH (60°-80°)	6911.1	25.4			G3/7500
FVH (80°-90°)	223.0	0.8			G2/225
BL (0°-30°)	1120.7	4.1	B3/2500		
BM (30°-60°)	2462.1	9.0	B2/2500		
BH (60°-80°)	1438.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	133.6	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°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	4003.0	4031.2	3996.1	3996.1	3877.9	3816.0	3697.9	3607.8	3446.0	3418.0	3311.1
5°	4731.7	4766.9	4717.6	4696.4	4557.3	4429.2	4230.9	4035.4	3747.1	3717.6	3465.7
7.5°	5295.7	5340.7	5297.1	5274.5	5150.8	5007.3	4775.3	4502.4	4095.9	4038.2	3673.9
10°	5755.7	5762.7	5748.6	5757.0	5659.9	5541.9	5304.2	4986.2	4478.5	4399.7	3925.7
12.5°	6015.8	6048.2	6076.3	6126.9	6110.1	6036.9	5823.1	5443.4	4883.6	4782.3	4199.9
15°	6138.2	6194.5	6257.7	6374.5	6468.8	6487.0	6323.8	5934.2	5295.7	5173.3	4477.1
17.5°	6181.8	6235.3	6335.1	6503.9	6706.5	6842.9	6769.7	6411.1	5703.6	5563.0	4768.2
20°	6402.7	6418.1	6478.6	6638.9	6858.4	7084.8	7139.7	6869.7	6107.3	5948.4	5069.2
22.5°	6875.3	6844.3	6861.1	6934.3	7091.9	7311.3	7436.5	7274.7	6522.2	6339.3	5373.0
25°	7655.9	7565.8	7475.8	7391.5	7471.6	7595.5	7737.5	7679.8	6956.9	6724.7	5679.7
27.5°	8641.9	8532.2	8333.9	8056.8	7959.7	8003.3	8066.6	8055.4	7359.1	7124.3	5996.1
30°	9612.4	9484.4	9248.2	8847.3	8591.2	8475.9	8428.1	8395.8	7796.6	7546.2	6315.4
32.5°	10387.5	10286.2	10054.1	9605.4	9234.0	9037.1	8878.2	8762.8	8253.7	8003.3	6653.1
35°	11065.4	10971.2	10705.3	10215.9	9812.1	9602.6	9394.4	9148.2	8729.1	8475.9	7015.9
37.5°	11684.3	11590.1	11225.7	10716.6	10310.1	10165.2	9979.5	9561.8	9205.9	8966.8	7399.9
40°	12075.3	12054.2	11713.8	11137.1	10715.1	10643.4	10581.6	10041.4	9734.8	9512.5	7821.9
42.5°	12175.2	12221.6	11951.5	11477.5	11075.2	11017.6	11162.5	10584.4	10328.3	10115.9	8300.1
45°	11934.7	12068.2	11891.0	11569.0	11331.3	11300.3	11677.2	11177.9	10985.2	10791.1	8876.8
47.5°	11325.6	11552.1	11478.9	11433.9	11400.2	11533.8	12130.2	11808.1	11729.3	11560.5	9535.1
50°	10096.2	10525.3	10653.2	10937.4	11263.7	11715.2	12542.3	12495.9	12598.6	12428.3	10336.8
52.5°	7971.0	8561.7	9304.3	10016.1	10844.6	11654.8	12995.2	13483.3	13916.5	13823.7	11611.1
55°	6579.9	6845.8	7416.8	8722.0	10031.6	11400.2	13199.1	14280.8	15224.6	15141.6	12577.5
57.5°	5510.9	5748.6	6100.3	7190.4	8802.3	10822.1	13325.7	14767.5	16120.6	16112.1	13531.1
60°	4364.6	4616.3	4976.4	5748.6	7366.2	9823.4	13297.6	15321.6	17264.1	17334.4	14694.3
62.5°	3070.5	3347.6	3747.1	4467.3	5899.1	8529.3	12723.7	15722.5	18610.2	18801.5	16093.8
65°	2018.4	2201.3	2502.2	3124.0	4395.5	6865.4	11628.0	15774.5	20050.5	20374.0	17407.6
67.5°	1415.0	1485.3	1662.6	2000.1	2897.5	5264.7	9882.4	15235.8	21011.2	21375.5	17977.3
70°	1104.1	1139.3	1229.3	1364.4	1820.1	3540.4	7572.9	13834.9	20805.9	21185.6	17382.3
72.5°	953.7	987.4	1021.2	1038.0	1220.9	2185.8	5129.7	11567.5	18871.8	19129.2	15113.4
75°	865.0	873.5	901.6	896.0	931.1	1417.8	2960.8	8428.1	14889.9	14801.2	11156.8
77.5°	727.2	738.4	784.8	777.9	827.1	969.1	1537.4	5439.2	9653.2	9051.2	6210.0
80°	616.0	621.7	672.3	663.9	718.7	701.9	784.8	2772.3	4094.5	3468.6	1790.6
82.5°	213.8	264.4	513.4	528.9	548.6	424.8	452.9	1130.9	1250.4	957.9	375.6
85°	104.0	111.1	261.6	371.4	369.9	213.8	220.8	403.6	393.8	309.4	125.2
87.5°	16.9	21.1	31.0	144.8	115.3	56.3	76.0	78.7	81.6	70.3	28.1
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°	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1	3197.1
2.5°	3232.2	3161.9	3014.2	2877.8	2770.9	2668.3	2610.6	2561.4	2533.2	2527.5	2527.5
5°	3319.5	3174.6	2906.0	2679.5	2531.9	2422.1	2364.5	2327.9	2309.5	2298.4	2296.9
7.5°	3444.6	3232.2	2849.7	2592.3	2437.6	2358.8	2329.2	2323.7	2322.2	2323.7	2327.9
10°	3617.6	3326.5	2844.1	2571.2	2441.8	2398.2	2396.8	2398.2	2403.8	2405.3	2406.6
12.5°	3804.7	3423.6	2866.5	2589.5	2495.3	2471.3	2467.1	2465.7	2469.9	2472.7	2474.1
15°	4008.7	3551.5	2904.5	2628.8	2554.3	2529.0	2524.8	2516.4	2514.9	2513.5	2512.1
17.5°	4218.3	3678.1	2946.8	2671.0	2592.3	2557.2	2541.7	2521.9	2506.5	2502.2	2506.5
20°	4430.7	3803.4	2976.3	2692.2	2595.1	2545.9	2514.9	2481.2	2454.5	2439.0	2444.6
22.5°	4657.1	3934.2	2994.5	2686.5	2569.8	2502.2	2446.0	2406.6	2365.8	2339.2	2340.5
25°	4878.0	4048.0	2993.2	2657.0	2520.6	2434.8	2363.0	2312.4	2256.1	2227.9	2227.9
27.5°	5090.4	4150.7	2957.9	2604.9	2450.3	2354.6	2268.7	2208.3	2153.4	2126.7	2125.3
30°	5309.8	4236.5	2903.1	2529.0	2367.2	2261.8	2167.5	2115.5	2066.2	2040.9	2039.5
32.5°	5527.8	4315.4	2825.8	2434.8	2271.6	2170.3	2077.5	2029.7	2000.1	2000.1	2001.5
35°	5758.4	4370.2	2723.1	2325.0	2170.3	2073.3	2000.1	1972.0	1969.2	1952.3	1948.1
37.5°	6001.8	4405.3	2597.9	2212.6	2070.5	1979.1	1956.5	1922.8	1894.6	1858.0	1852.5
40°	6257.7	4440.5	2447.4	2095.8	1964.9	1914.3	1904.4	1859.5	1779.3	1689.3	1676.6
42.5°	6568.6	4464.4	2291.3	1979.1	1853.8	1837.0	1851.0	1773.7	1645.6	1578.2	1579.5
45°	6928.7	4503.8	2147.8	1863.7	1739.9	1739.9	1799.0	1697.7	1592.2	1550.0	1557.1
47.5°	7395.7	4595.2	2014.2	1737.1	1634.5	1662.6	1683.7	1606.3	1547.2	1495.2	1493.7
50°	8070.8	4814.6	1876.4	1609.1	1554.2	1610.5	1581.0	1536.0	1467.1	1424.9	1420.6
52.5°	8909.1	4944.1	1754.0	1493.7	1485.3	1541.6	1499.4	1457.2	1405.2	1348.9	1337.6
55°	9480.2	4968.0	1651.3	1409.4	1438.9	1433.3	1417.8	1379.9	1351.7	1277.1	1278.6
57.5°	10118.8	5015.8	1566.9	1358.7	1409.4	1347.5	1341.8	1309.5	1272.9	1222.3	1205.4
60°	10882.5	5090.4	1493.7	1339.1	1384.1	1291.2	1263.1	1250.4	1213.9	1188.6	1195.6
62.5°	11715.2	5157.8	1419.2	1341.8	1354.5	1236.4	1194.1	1189.9	1167.5	1159.0	1159.0
65°	12283.5	4973.6	1326.4	1339.1	1308.1	1180.1	1126.7	1125.2	1107.0	1104.1	1102.7
67.5°	12085.2	4389.9	1201.2	1299.7	1260.2	1123.8	1064.8	1059.1	1035.2	1036.6	1036.6
70°	11092.1	3557.2	1028.2	1202.6	1201.2	1073.2	1000.1	981.7	949.5	955.1	960.6
72.5°	9229.8	2635.9	796.1	1040.9	1107.0	1026.7	925.5	896.0	855.2	860.8	859.4
75°	6665.7	1791.9	579.5	791.9	963.5	971.9	852.4	801.8	752.6	761.0	763.7
77.5°	3410.9	1015.6	426.2	545.7	756.8	883.3	786.3	718.7	707.5	786.3	775.0
80°	1112.6	509.2	295.4	382.6	496.5	722.9	689.2	611.8	609.1	627.3	538.7
82.5°	332.0	215.2	189.9	251.7	274.3	554.2	595.0	462.8	398.0	419.1	433.3
85°	114.0	104.0	108.3	125.2	130.8	324.9	416.4	306.7	289.8	319.3	315.1
87.5°	26.8	36.6	31.0	28.1	28.1	78.7	161.7	128.0	177.2	118.2	114.0
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)