

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: P963152

Luminaire Tested: **NVN-SB2D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18524.8 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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



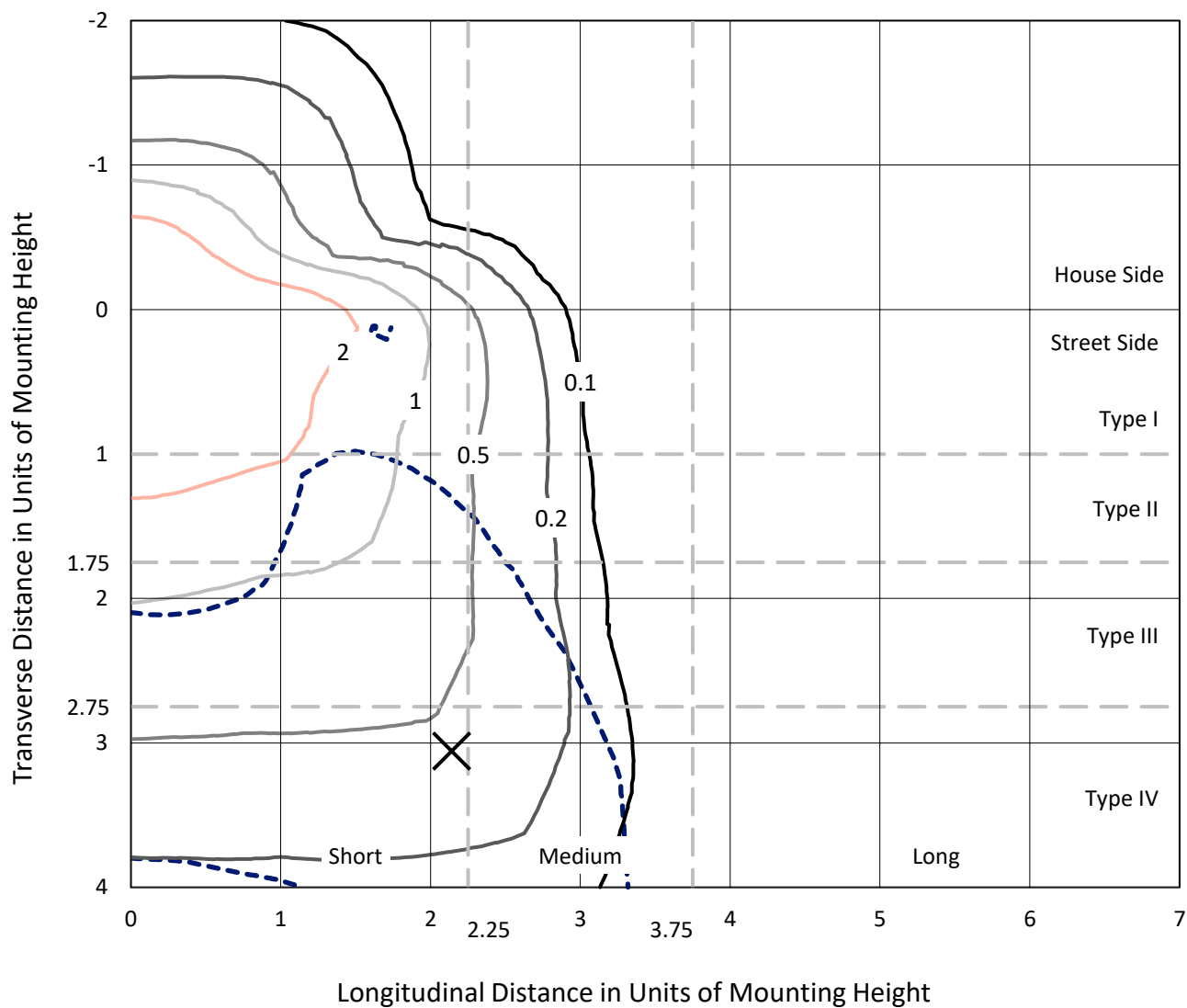
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

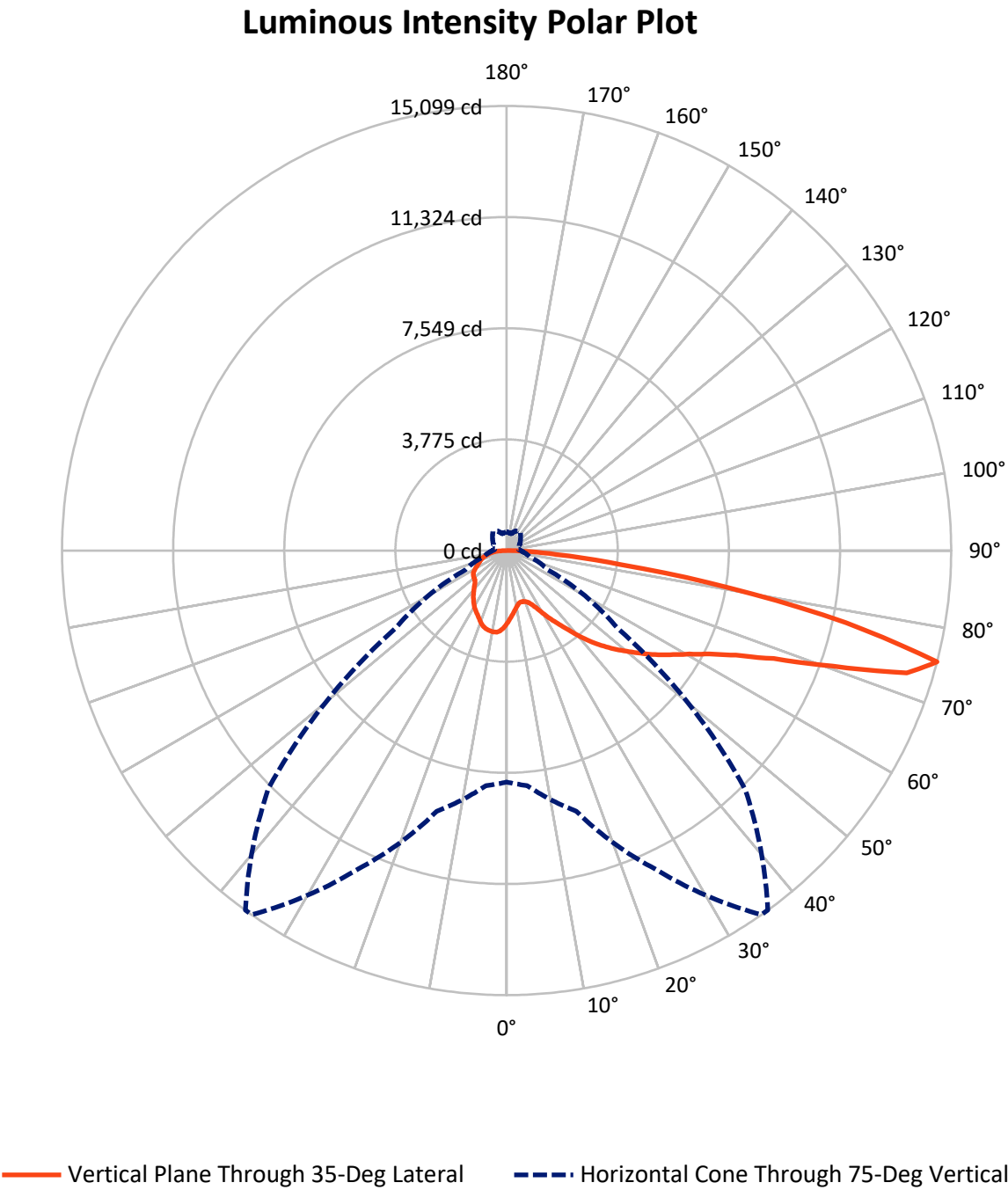
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type IV - Short - N/A

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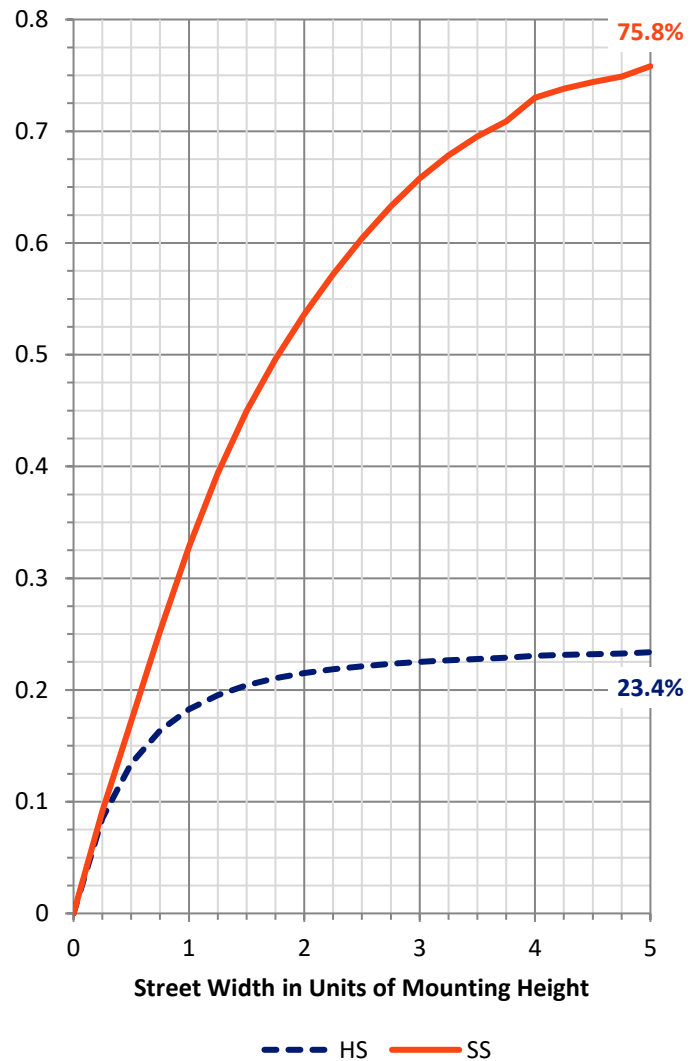
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4408.4	0.0	4408.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14116.4	0.0	14116.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	18524.8	0.0	18524.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	1.3
10°-20°	674.2	3.6
20°-30°	1132.1	6.1
30°-40°	1759.4	9.5
40°-50°	2611.5	14.1
50°-60°	3605.3	19.5
60°-70°	4374.0	23.6
70°-80°	3614.8	19.5
80°-90°	519.9	2.8
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°	18524.8	100.0
0°-180°	18524.8	100.0

Coefficient of Utilization



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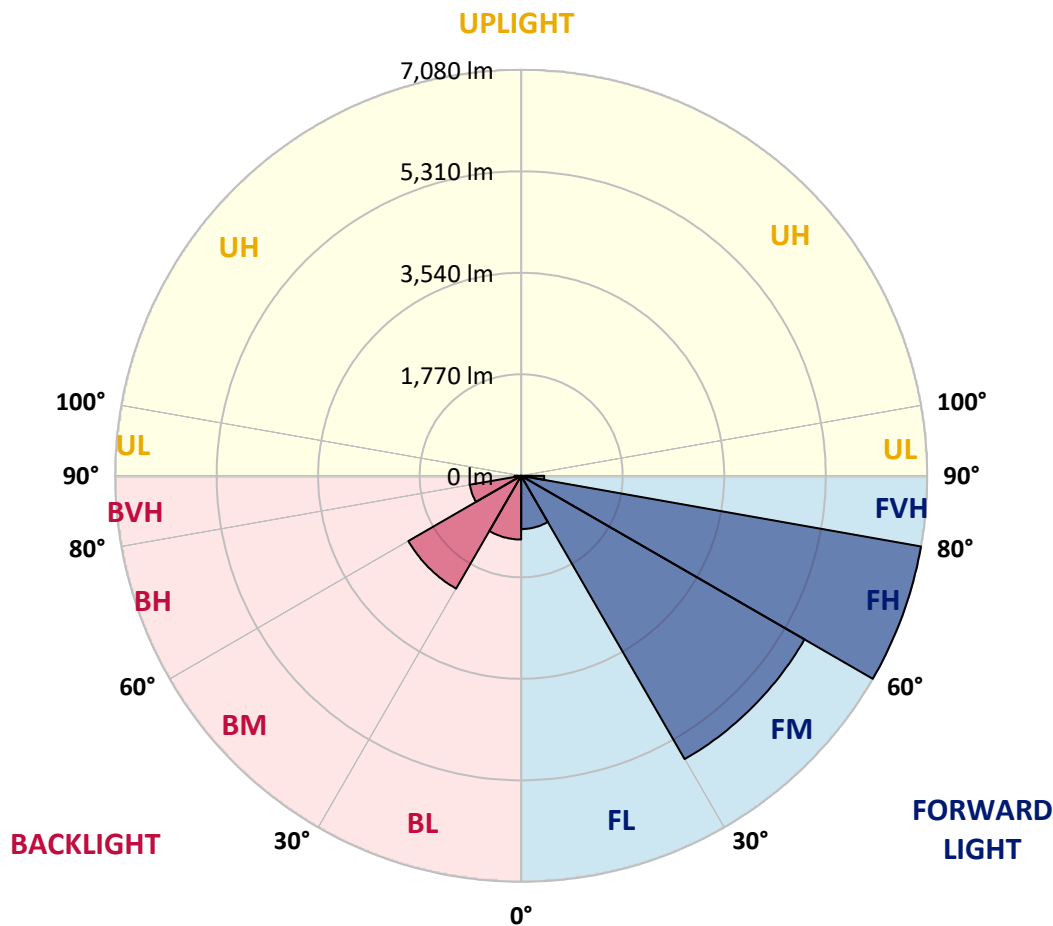
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	929.0	5.0			
FM	(30°-60°)	5704.6	30.8			
FH	(60°-80°)	7079.9	38.2			G3/7500
FVH	(80°-90°)	402.8	2.2			G3/500
BL	(0°-30°)	1111.0	6.0	B3/2500		
BM	(30°-60°)	2271.5	12.3	B2/2500		
BH	(60°-80°)	908.9	4.9	B2/1000		G2/1000
BVH	(80°-90°)	117.1	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5
2.5°	2276.3	2290.3	2296.3	2293.3	2308.3	2306.4	2327.4	2353.4	2389.5	2424.5	2475.6
5°	2101.0	2116.0	2129.0	2141.1	2170.1	2179.1	2212.2	2262.3	2328.4	2395.4	2479.6
7.5°	1937.8	1950.8	1970.9	1992.9	2041.9	2050.9	2106.1	2184.2	2276.3	2374.4	2490.5
10°	1804.6	1817.6	1838.6	1863.7	1924.7	1935.8	2005.9	2110.1	2230.2	2354.4	2502.6
12.5°	1747.5	1751.5	1763.5	1788.6	1841.6	1848.7	1925.8	2045.0	2185.2	2339.4	2520.7
15°	1744.6	1752.5	1753.6	1766.6	1810.6	1813.6	1884.7	2002.8	2157.1	2336.4	2547.6
17.5°	1774.6	1780.5	1771.5	1779.6	1816.6	1821.6	1877.7	1982.9	2148.1	2349.4	2593.8
20°	1854.6	1859.7	1832.6	1821.6	1848.7	1852.7	1907.7	1995.9	2157.1	2376.5	2656.8
22.5°	2024.9	2028.0	1961.8	1916.7	1918.8	1920.7	1968.8	2049.0	2192.2	2425.5	2737.0
25°	2290.3	2288.3	2183.1	2096.0	2045.9	2034.9	2067.0	2135.1	2251.2	2490.5	2840.1
27.5°	2600.7	2585.8	2480.6	2350.4	2241.3	2225.2	2218.2	2247.2	2335.4	2576.7	2966.2
30°	2951.3	2937.2	2824.1	2653.8	2502.6	2476.6	2410.5	2395.4	2460.5	2693.9	3141.5
32.5°	3335.8	3326.8	3191.6	2985.3	2783.0	2752.9	2641.8	2601.8	2652.8	2871.1	3385.9
35°	3658.2	3650.2	3538.1	3325.8	3078.5	3041.4	2928.2	2883.1	2909.2	3098.5	3705.4
37.5°	3949.7	3945.7	3849.6	3682.3	3427.0	3381.9	3254.7	3239.7	3234.7	3397.9	4092.9
40°	4220.1	4210.1	4109.9	4021.8	3832.5	3791.5	3679.3	3666.3	3628.2	3766.5	4531.5
42.5°	4519.5	4493.5	4348.3	4307.3	4256.1	4222.1	4154.9	4157.0	4072.8	4182.0	4996.2
45°	4763.9	4748.8	4599.6	4575.6	4630.6	4616.7	4674.7	4689.8	4526.5	4617.6	5478.9
47.5°	5026.3	5012.2	4886.1	4869.1	5018.2	5022.2	5227.5	5232.5	4969.2	5070.3	5962.6
50°	5349.7	5329.7	5204.5	5225.6	5392.7	5407.8	5783.4	5749.3	5376.7	5530.0	6442.3
52.5°	5563.0	5575.1	5548.0	5582.0	5810.4	5824.4	6330.1	6243.0	5780.3	5983.6	6913.0
55°	5720.2	5744.3	5828.4	5906.6	6251.0	6265.0	6845.9	6712.7	6114.8	6404.2	7355.6
57.5°	5922.6	5888.5	6045.8	6198.0	6669.6	6706.7	7347.6	7165.4	6411.3	6766.7	7659.0
60°	6212.9	6189.0	6311.1	6536.4	7138.3	7197.3	7878.4	7572.9	6628.6	7054.2	7718.1
62.5°	6801.8	6741.7	6760.7	6960.1	7729.1	7807.2	8477.3	7928.5	6736.7	7166.3	7401.6
65°	7682.1	7579.0	7482.8	7621.0	8561.3	8638.5	9153.1	8207.8	6696.6	6949.0	6561.4
67.5°	8790.7	8688.5	8570.3	8700.5	9787.1	9848.2	9987.4	8365.0	6381.2	6111.8	5076.3
70°	9705.0	9667.0	9808.1	10343.9	11745.0	11746.9	11057.0	8234.8	5517.0	4333.3	2937.2
72.5°	9583.9	9560.8	10304.8	11961.2	14212.4	14159.5	12069.4	7249.4	3716.3	1954.8	1100.5
75°	7862.4	8011.5	9164.2	11932.2	15098.8	15091.8	11449.5	4608.6	1537.2	810.2	568.8
77.5°	4216.0	4452.4	5949.6	8809.7	11787.0	11964.2	8049.6	1612.3	660.0	518.8	393.6
80°	1374.9	1581.3	2371.4	4485.5	7659.0	7626.0	3449.9	632.9	451.6	367.6	272.3
82.5°	583.8	607.8	1059.5	2118.1	3930.7	3869.6	1098.6	363.6	317.4	251.3	168.2
85°	228.4	255.3	467.7	979.4	1702.4	1665.4	396.6	180.3	203.3	164.2	100.1
87.5°	75.1	91.1	167.3	335.5	529.7	510.8	97.2	62.1	88.1	75.1	36.1
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°	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5
2.5°	2489.6	2505.6	2524.7	2552.7	2576.7	2596.7	2617.7	2630.8	2635.8	2650.9	2649.8
5°	2507.7	2542.6	2589.8	2635.8	2680.9	2707.9	2731.9	2743.9	2755.0	2763.0	2764.9
7.5°	2537.7	2582.7	2656.8	2716.9	2755.0	2777.0	2793.0	2789.0	2793.0	2795.1	2798.0
10°	2563.7	2626.8	2714.9	2772.0	2801.0	2802.0	2798.0	2784.0	2777.0	2778.0	2780.0
12.5°	2594.8	2664.8	2760.0	2808.1	2816.1	2794.0	2777.0	2752.9	2743.9	2739.9	2738.0
15°	2636.8	2716.9	2809.0	2827.1	2807.1	2779.0	2750.0	2710.9	2690.8	2674.8	2679.9
17.5°	2687.9	2776.0	2847.1	2834.1	2791.0	2745.0	2697.9	2638.8	2597.8	2580.7	2581.8
20°	2759.0	2838.1	2876.1	2819.1	2754.0	2683.9	2603.7	2531.6	2493.6	2476.6	2474.6
22.5°	2845.1	2921.2	2904.2	2793.0	2700.9	2588.7	2488.6	2435.5	2416.4	2404.4	2406.5
25°	2948.2	3013.3	2924.2	2755.0	2613.8	2462.6	2385.5	2368.4	2359.4	2350.4	2350.4
27.5°	3082.5	3117.5	2939.2	2698.9	2477.5	2328.4	2300.3	2303.3	2300.3	2285.3	2288.3
30°	3259.7	3252.7	2953.2	2607.8	2321.3	2207.1	2209.2	2222.2	2224.2	2214.2	2219.2
32.5°	3493.0	3422.0	2960.3	2489.6	2172.2	2101.0	2103.0	2117.0	2127.1	2110.1	2118.1
35°	3775.5	3619.2	2949.2	2341.4	2057.0	1999.9	1984.8	1988.9	1991.9	1975.9	1986.9
37.5°	4104.9	3840.6	2900.1	2177.1	1961.8	1900.8	1868.7	1841.6	1825.6	1810.6	1820.6
40°	4466.4	4081.9	2810.0	2016.9	1855.7	1795.6	1747.5	1696.5	1642.4	1622.4	1631.4
42.5°	4845.0	4330.2	2700.9	1863.7	1733.5	1684.4	1633.3	1559.2	1478.2	1437.0	1442.1
45°	5237.5	4584.6	2593.8	1712.5	1608.3	1587.3	1528.2	1439.1	1350.9	1298.9	1294.9
47.5°	5622.1	4825.0	2436.5	1560.3	1491.2	1514.2	1468.1	1386.0	1287.8	1205.7	1196.7
50°	5989.6	5050.3	2179.1	1406.0	1396.0	1492.2	1448.1	1329.9	1217.8	1112.6	1103.6
52.5°	6354.2	5232.5	1849.7	1265.9	1344.9	1486.1	1422.1	1291.9	1154.7	1044.5	1032.5
55°	6663.6	5326.7	1532.2	1145.6	1270.8	1435.1	1391.0	1246.8	1065.5	948.3	938.4
57.5°	6839.8	5250.6	1267.8	1027.5	1168.7	1350.9	1337.9	1150.7	959.4	869.3	857.2
60°	6763.8	4942.1	1051.5	924.3	1071.5	1259.8	1245.8	1055.5	878.2	793.1	781.2
62.5°	6344.1	4354.3	880.3	834.2	983.4	1166.7	1153.6	982.5	816.2	734.1	721.1
65°	5498.9	3542.1	747.1	759.1	894.3	1054.5	1073.6	921.4	767.1	687.0	673.9
67.5°	4194.1	2565.7	642.9	694.0	807.2	944.3	999.5	877.3	726.0	650.0	638.0
70°	2390.4	1457.1	554.8	630.9	730.0	842.2	942.4	842.2	681.9	618.9	610.9
72.5°	906.3	668.9	479.7	567.8	655.9	756.0	879.2	787.1	630.9	583.8	575.8
75°	483.7	407.5	403.5	493.7	570.8	672.0	800.1	733.1	592.9	616.8	636.9
77.5°	329.4	288.4	337.5	422.6	477.6	578.8	716.1	651.0	513.7	511.8	471.7
80°	228.4	204.3	274.4	340.5	369.5	486.7	624.9	558.8	418.6	390.5	373.5
82.5°	137.2	133.1	205.3	254.4	261.4	375.6	517.7	468.6	342.5	298.5	300.4
85°	75.1	79.1	131.2	149.2	152.2	262.4	405.6	362.5	263.4	221.3	223.3
87.5°	21.0	27.1	48.1	59.0	73.1	136.2	241.4	215.4	132.2	92.1	92.1
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)