

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: P965780

Luminaire Tested: **NVN-SB4A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16780.3 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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



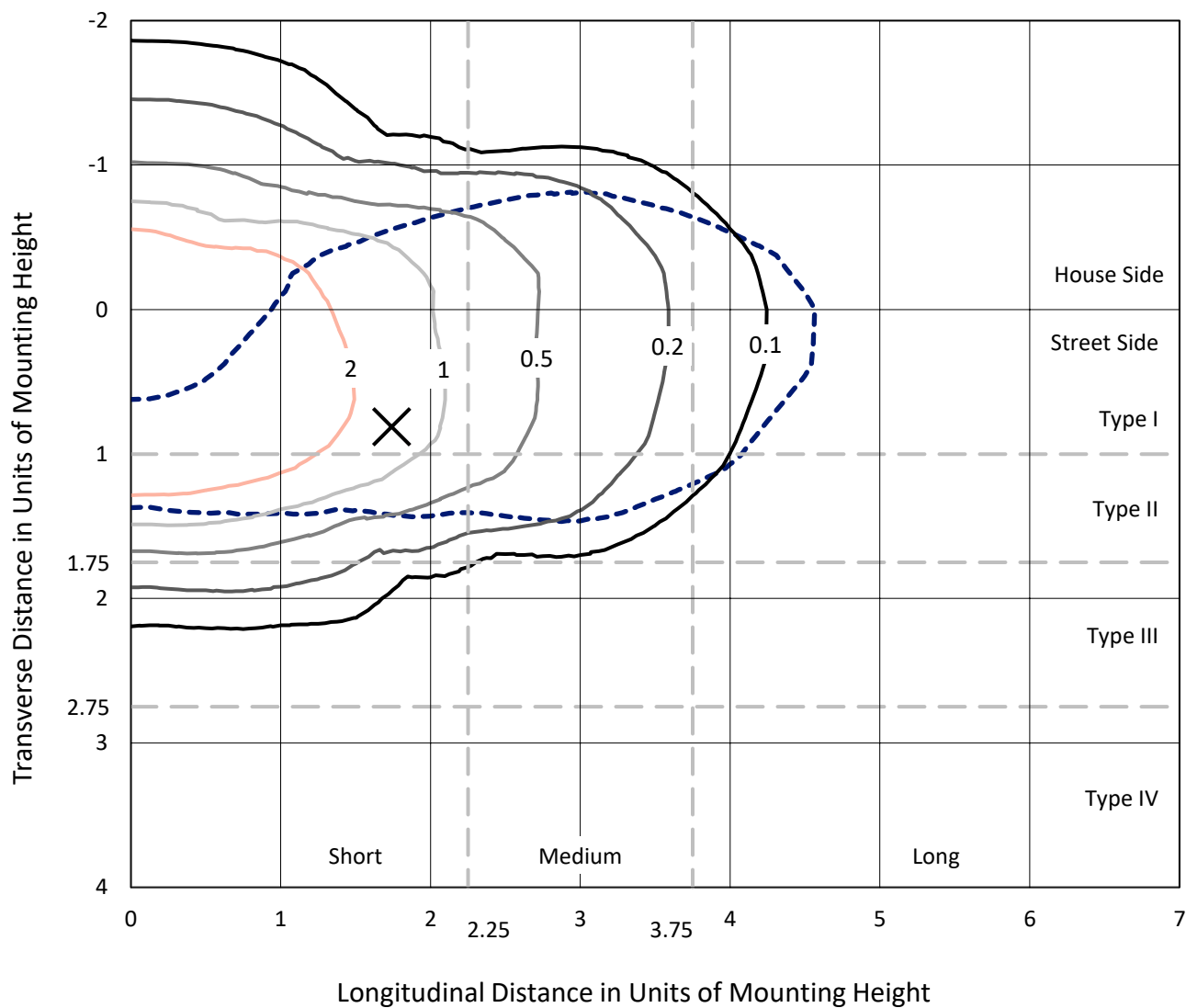
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

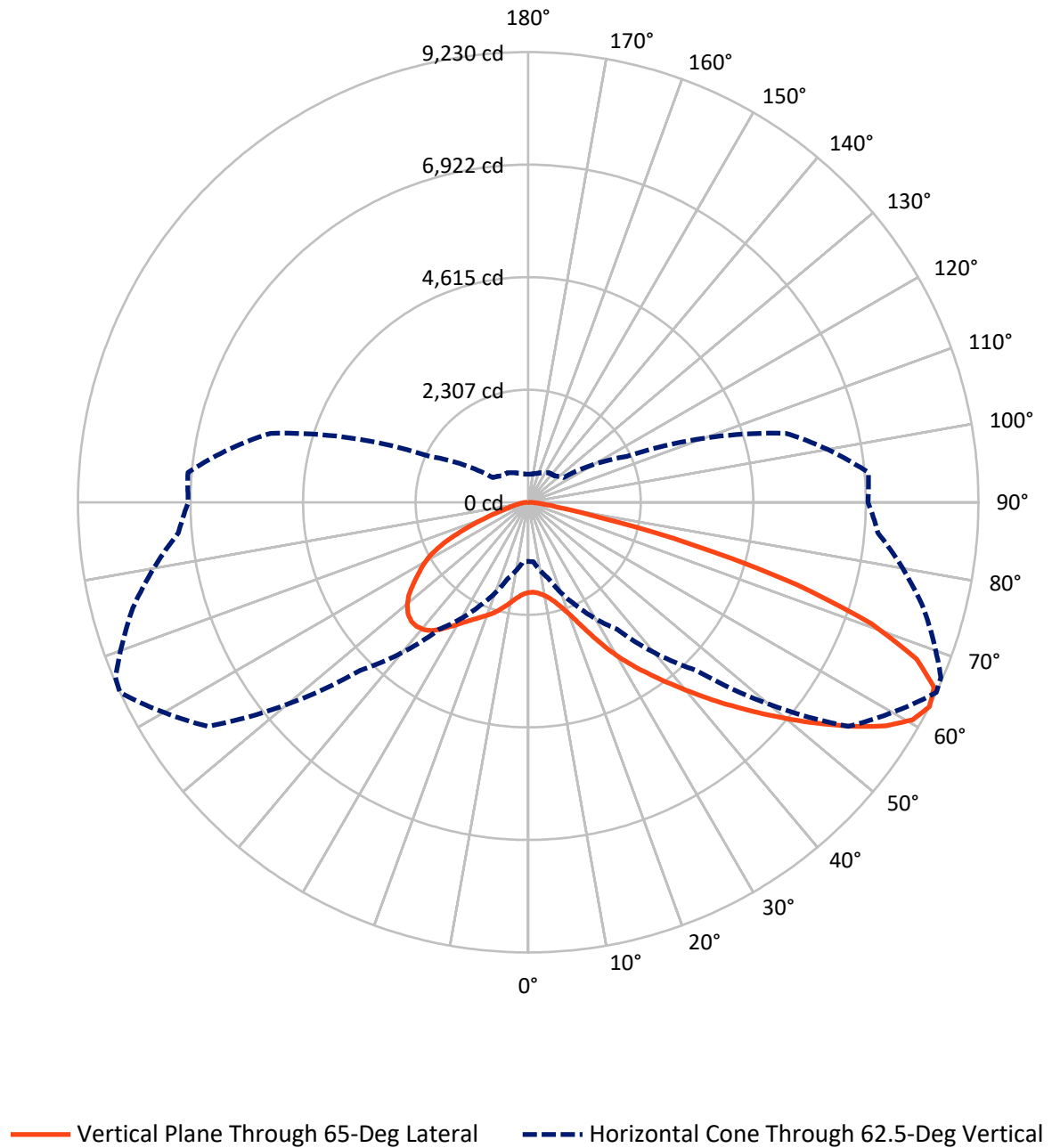


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5295.1	0.0	5295.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11485.2	0.0	11485.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	16780.3	0.0	16780.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	1.1
10°-20°	625.2	3.7
20°-30°	1267.6	7.6
30°-40°	2193.5	13.1
40°-50°	3319.5	19.8
50°-60°	3891.9	23.2
60°-70°	3262.9	19.4
70°-80°	1801.4	10.7
80°-90°	234.0	1.4
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°	16780.3	100.0
0°-180°	16780.3	100.0

Coefficient of Utilization



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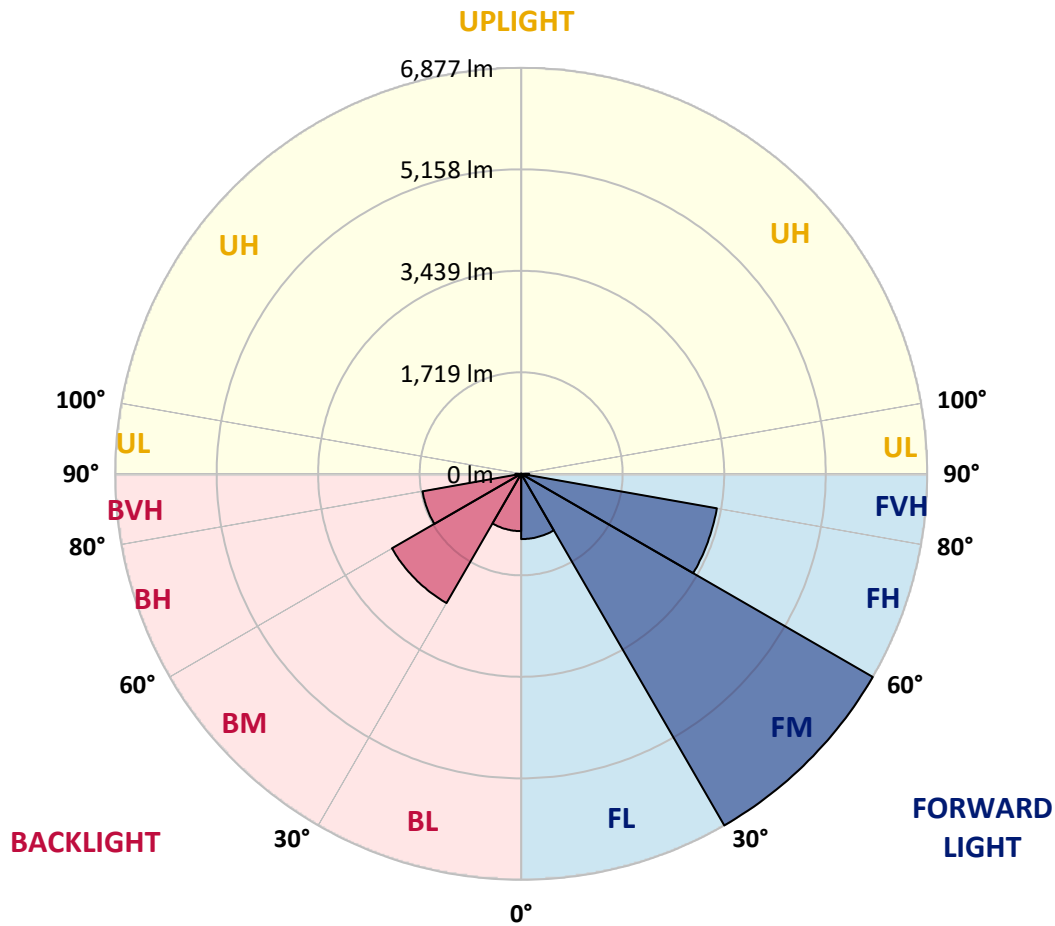
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.0	6.6			
FM	(30°-60°)	6877.1	41.0			
FH	(60°-80°)	3365.6	20.1			G2/5000
FVH	(80°-90°)	136.4	0.8			G2/225
BL	(0°-30°)	971.1	5.8	B2/1000		
BM	(30°-60°)	2527.8	15.1	B3/5000		
BH	(60°-80°)	1698.6	10.1	B3/2500		G3/2500
BVH	(80°-90°)	97.6	0.6			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1
2.5°	1836.9	1831.7	1836.1	1836.1	1837.8	1836.9	1843.1	1844.8	1847.4	1852.6	1852.6
5°	1818.7	1817.7	1825.6	1832.6	1839.6	1845.6	1853.5	1864.8	1866.5	1872.6	1880.5
7.5°	1812.5	1807.3	1819.5	1828.2	1844.8	1859.6	1880.5	1899.6	1907.4	1910.1	1924.8
10°	1859.6	1850.8	1862.2	1867.3	1881.3	1896.1	1920.5	1951.0	1959.7	1970.2	1986.7
12.5°	1939.6	1930.1	1946.6	1954.5	1967.5	1980.6	1997.1	2026.7	2031.0	2050.2	2065.9
15°	2049.4	2038.0	2048.5	2058.1	2079.8	2092.0	2108.5	2137.2	2137.2	2152.1	2163.4
17.5°	2198.2	2183.5	2191.2	2194.7	2208.7	2226.9	2254.8	2280.0	2293.1	2287.9	2272.2
20°	2420.2	2401.9	2401.9	2384.6	2379.3	2394.1	2430.7	2465.5	2479.4	2452.4	2414.1
22.5°	2753.7	2727.5	2712.8	2653.5	2630.0	2631.8	2668.3	2711.0	2722.3	2674.4	2588.2
25°	3177.6	3136.7	3116.7	3029.6	2976.5	2930.4	2959.1	3013.9	3029.6	2970.4	2831.2
27.5°	3601.5	3604.2	3585.0	3480.6	3392.6	3308.2	3293.4	3350.8	3367.4	3300.4	3128.0
30°	4196.2	4134.3	4097.8	3972.5	3847.1	3728.7	3667.8	3691.2	3695.6	3615.5	3415.3
32.5°	4709.0	4693.3	4615.0	4505.3	4344.2	4158.7	4057.0	4019.4	4012.5	3898.5	3660.8
35°	5293.1	5284.4	5201.7	5071.1	4897.0	4639.4	4455.7	4348.6	4339.8	4179.6	3903.7
37.5°	5886.9	5886.9	5805.9	5663.1	5482.9	5160.8	4881.4	4711.6	4683.7	4474.7	4150.9
40°	6360.4	6331.7	6346.5	6286.4	6080.1	5738.0	5354.1	5107.7	5070.3	4819.5	4413.9
42.5°	6629.5	6619.9	6708.7	6775.8	6691.3	6417.9	5874.7	5536.8	5484.7	5199.1	4716.8
45°	6689.6	6679.1	6837.6	7083.1	7201.4	7089.1	6440.6	5988.8	5925.2	5596.1	5041.6
47.5°	6551.1	6530.3	6762.6	7150.1	7529.6	7727.3	7053.4	6478.8	6386.6	5982.6	5375.0
50°	6134.9	6114.9	6466.7	6981.2	7640.2	8160.8	7718.6	6998.6	6857.6	6397.0	5711.9
52.5°	5230.5	5240.0	5791.1	6498.0	7494.8	8430.7	8291.4	7546.2	7376.4	6821.0	6027.9
55°	4074.3	4095.2	4772.5	5550.8	6913.3	8389.8	8682.3	8110.3	7941.4	7219.7	6354.4
57.5°	2917.4	3009.6	3644.3	4414.7	5796.4	7741.2	8767.6	8646.6	8482.9	7655.0	6673.9
60°	1890.9	1907.4	2560.3	3336.9	4413.9	6588.6	8594.4	9053.2	8925.2	8099.0	6941.1
62.5°	1211.9	1223.1	1621.0	2334.0	3176.8	4874.4	8011.1	9229.9	9190.8	8392.4	7198.0
65°	890.6	881.9	1089.1	1542.6	2139.9	3006.1	6878.5	9144.5	9222.0	8576.1	7410.3
67.5°	743.4	731.3	833.1	1068.2	1576.7	1707.2	5089.4	8590.0	8873.8	8555.2	7566.2
70°	677.3	666.9	728.7	793.1	1230.1	1143.1	2565.6	7467.8	7904.9	8317.6	7540.9
72.5°	573.7	555.4	639.9	704.3	956.7	876.7	1060.4	5736.2	6269.0	7555.8	7185.8
75°	444.8	432.7	504.9	619.8	719.1	684.3	670.3	3483.2	4064.7	5843.3	6286.4
77.5°	352.6	336.0	402.2	483.2	646.9	516.3	488.4	1500.0	2076.3	3730.5	4703.7
80°	265.6	250.7	305.6	382.2	497.1	389.2	316.0	612.0	782.7	1890.0	2365.4
82.5°	188.9	175.9	213.3	280.3	334.3	349.1	194.1	343.0	385.7	728.7	528.5
85°	121.1	113.2	142.8	175.9	212.4	224.6	118.4	179.4	196.8	300.3	220.3
87.5°	66.2	54.0	76.6	81.8	98.4	89.7	56.6	65.3	70.5	108.9	93.2
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°	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1	1849.1
2.5°	1856.1	1858.7	1867.3	1870.0	1876.1	1884.0	1889.2	1894.4	1894.4	1899.6	1899.6
5°	1881.3	1887.4	1905.7	1915.3	1931.0	1946.6	1956.2	1967.5	1974.5	1977.9	1979.7
7.5°	1930.1	1939.6	1965.7	1982.4	2009.3	2031.0	2045.9	2061.6	2065.1	2074.6	2071.1
10°	1996.3	2007.6	2037.2	2068.4	2100.7	2127.7	2141.6	2152.9	2157.3	2159.1	2154.7
12.5°	2071.9	2088.5	2126.9	2165.1	2199.1	2222.6	2226.1	2223.4	2211.2	2200.8	2200.8
15°	2165.1	2180.0	2222.6	2264.4	2297.4	2301.8	2280.0	2266.2	2251.3	2248.7	2248.7
17.5°	2276.5	2284.4	2323.6	2364.5	2367.1	2352.3	2320.1	2307.1	2293.1	2283.5	2284.4
20°	2406.3	2403.6	2431.5	2448.9	2430.7	2385.4	2336.6	2314.9	2300.9	2289.6	2290.5
22.5°	2561.3	2541.2	2537.7	2533.4	2484.6	2389.8	2323.6	2295.7	2274.0	2258.3	2263.5
25°	2786.8	2710.1	2657.0	2627.4	2517.7	2366.2	2281.8	2219.9	2179.0	2152.1	2162.5
27.5°	3068.7	2939.9	2805.8	2733.6	2517.7	2318.3	2180.8	2080.6	2013.6	1985.8	1999.8
30°	3337.8	3202.8	3005.2	2861.6	2511.7	2240.0	2018.0	1878.7	1800.3	1772.5	1789.0
32.5°	3567.6	3420.5	3216.8	3001.7	2496.8	2112.9	1816.0	1661.9	1586.2	1553.1	1569.7
35°	3780.9	3624.2	3429.2	3155.9	2457.6	1926.6	1594.1	1476.5	1392.1	1339.0	1356.4
37.5°	3999.4	3813.1	3630.3	3295.2	2387.1	1709.0	1423.4	1323.3	1224.1	1152.6	1171.8
40°	4237.1	4014.2	3845.4	3377.9	2271.3	1501.7	1291.1	1199.7	1094.3	1018.5	1033.4
42.5°	4514.8	4255.4	4084.7	3420.5	2112.9	1354.6	1204.9	1115.2	1016.0	954.2	966.4
45°	4804.7	4521.0	4303.3	3419.6	1936.1	1285.9	1177.0	1088.2	978.6	914.1	924.6
47.5°	5108.6	4798.6	4492.2	3363.9	1783.0	1295.4	1161.3	1029.9	908.9	846.2	855.0
50°	5413.2	5102.4	4675.0	3259.5	1717.7	1274.5	1103.0	948.0	805.2	748.7	752.1
52.5°	5715.4	5425.4	4832.6	3110.6	1651.5	1197.1	1028.2	841.8	762.6	723.4	723.4
55°	6019.2	5744.9	5004.0	2893.8	1486.0	1106.5	902.8	801.8	728.7	693.0	689.5
57.5°	6323.9	6114.1	5166.9	2677.0	1278.0	995.1	834.0	753.1	694.7	664.3	659.1
60°	6640.8	6536.3	5334.9	2477.6	1072.6	852.3	783.5	713.9	654.7	620.7	618.1
62.5°	6967.2	7001.2	5466.4	2220.9	883.7	765.3	738.2	666.9	609.4	577.2	576.4
65°	7296.4	7449.6	5552.5	1864.8	716.5	682.5	689.5	615.5	557.2	529.3	528.5
67.5°	7544.4	7772.6	5528.2	1411.2	587.6	604.1	628.5	561.5	506.7	484.9	485.7
70°	7572.3	7734.2	5287.9	966.4	491.9	527.6	560.7	508.4	451.8	436.1	437.1
72.5°	7201.4	7211.9	4618.4	631.2	416.2	463.2	489.2	454.5	399.6	384.0	383.0
75°	6229.0	5964.4	3390.9	416.2	348.2	397.9	422.2	397.9	344.7	348.2	336.0
77.5°	4719.4	4224.0	2058.9	296.0	290.8	334.3	367.4	349.9	304.7	342.1	301.2
80°	2431.5	2285.2	918.5	221.1	229.8	267.2	302.1	279.4	241.2	229.8	209.8
82.5°	557.2	647.7	362.1	158.5	166.3	192.4	230.7	209.8	173.2	146.3	144.5
85°	195.1	213.3	160.2	99.2	97.5	120.1	156.7	140.1	117.6	94.0	99.2
87.5°	61.8	81.0	60.1	40.1	41.8	54.0	72.3	66.2	54.8	35.7	37.4
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)