

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: P964199

Luminaire Tested: **NVN-SB3B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964199
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-SB3B-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15769.6 lumens
Efficiency: N/A
Efficacy: 144.4 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): 109.2
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



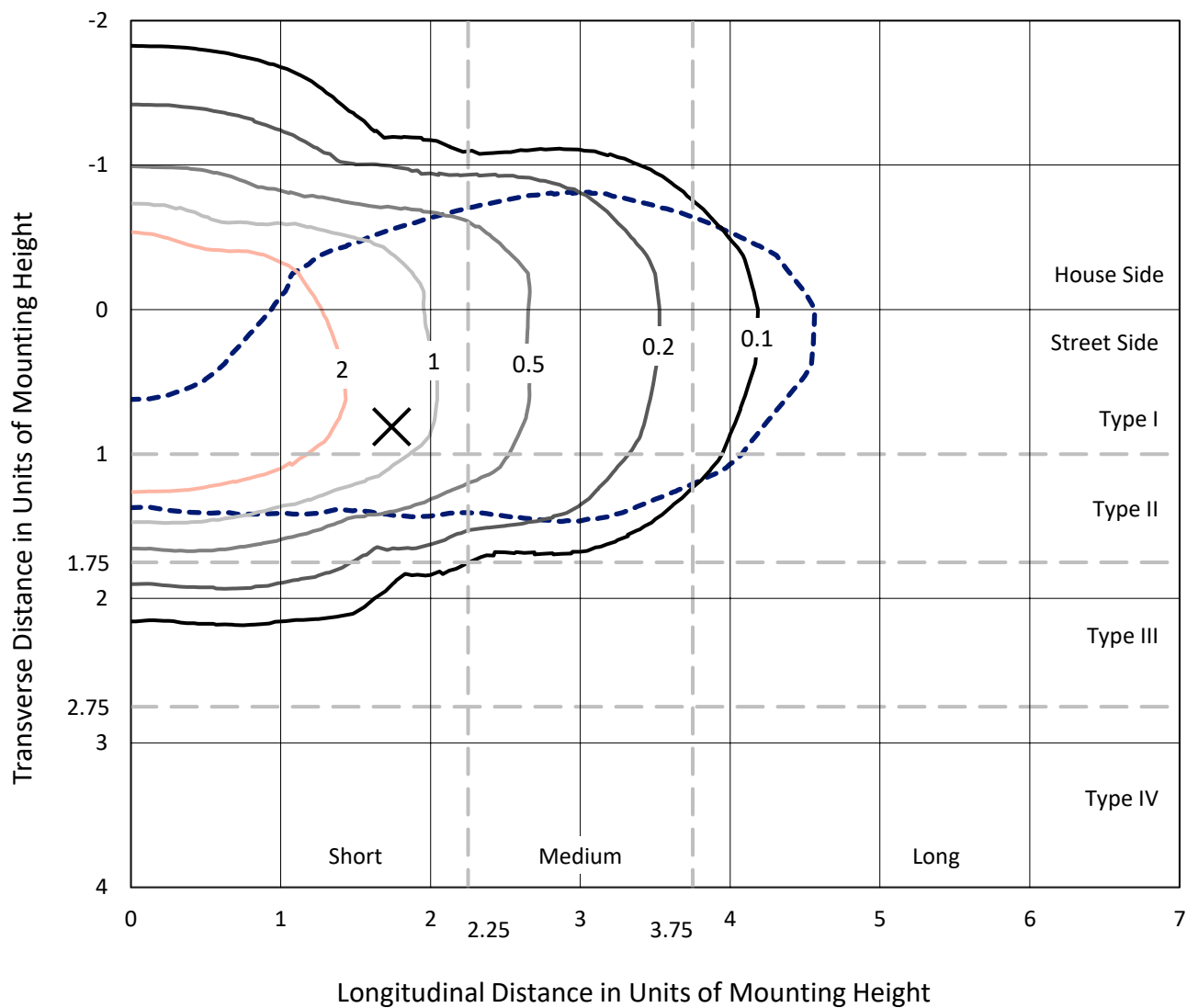
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Iso-Footcandle Lines of Horizontal Illumination

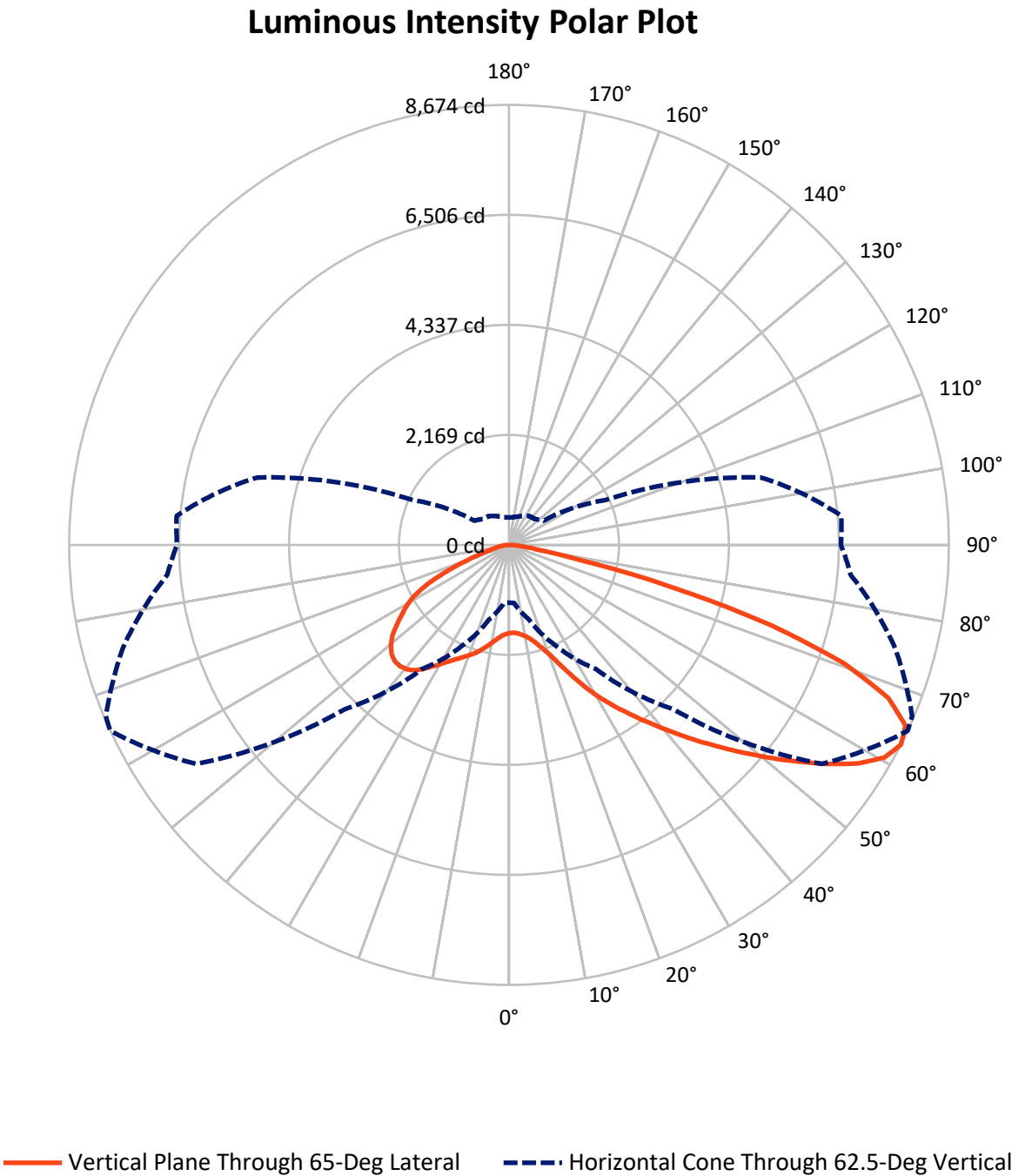
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4976.2	0.0	4976.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	10793.4	0.0	10793.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	15769.6	0.0	15769.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.1
10°-20°	587.5	3.7
20°-30°	1191.2	7.6
30°-40°	2061.4	13.1
40°-50°	3119.6	19.8
50°-60°	3657.5	23.2
60°-70°	3066.4	19.4
70°-80°	1692.9	10.7
80°-90°	219.9	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°	15769.6	100.0
0°-180°	15769.6	100.0

Coefficient of Utilization



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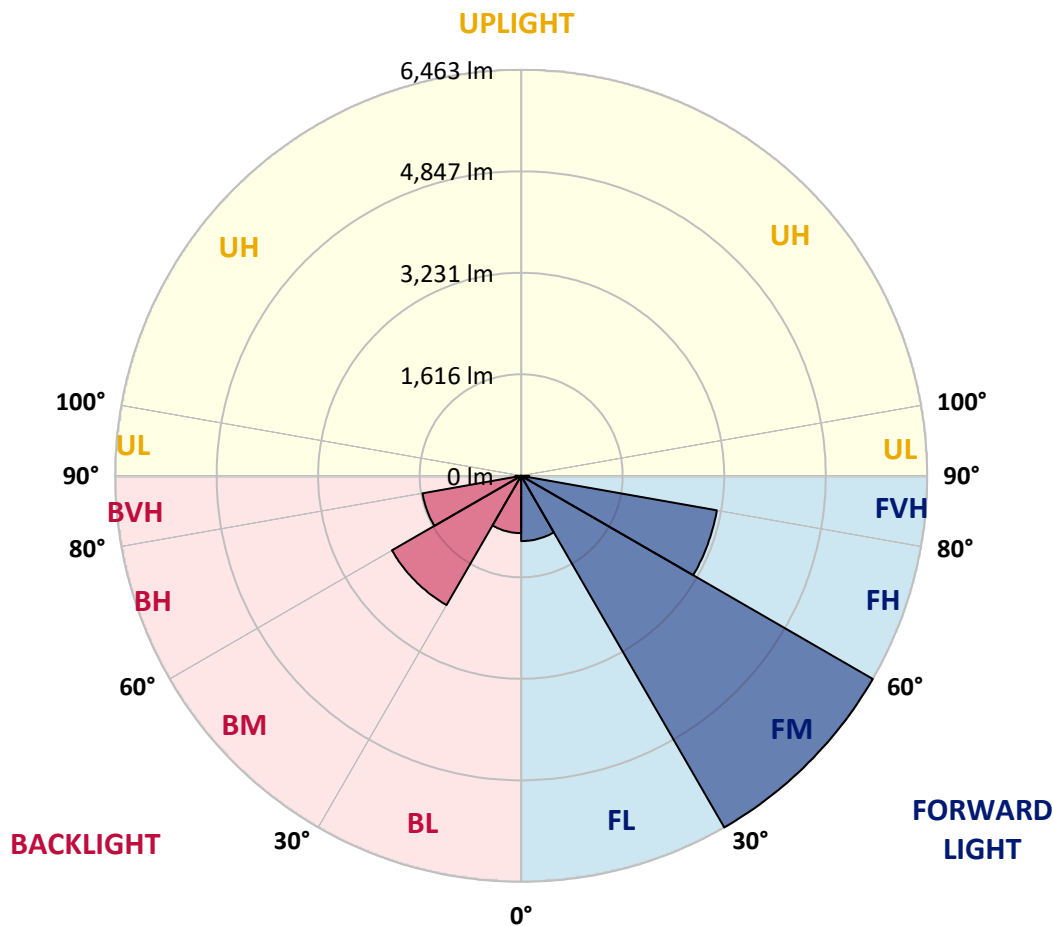
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.4	6.6			
FM	(30°-60°)	6462.9	41.0			
FH	(60°-80°)	3162.9	20.1			G2/5000
FVH	(80°-90°)	128.2	0.8			G2/225
BL	(0°-30°)	912.6	5.8	B2/1000		
BM	(30°-60°)	2375.6	15.1	B2/2500		
BH	(60°-80°)	1596.3	10.1	B3/2500		G3/2500
BVH	(80°-90°)	91.7	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°	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8
2.5°	1726.3	1721.4	1725.5	1725.5	1727.1	1726.3	1732.0	1733.7	1736.1	1741.1	1741.1
5°	1709.1	1708.3	1715.6	1722.2	1728.8	1734.5	1741.9	1752.4	1754.1	1759.8	1767.2
7.5°	1703.3	1698.4	1709.9	1718.1	1733.7	1747.5	1767.2	1785.2	1792.5	1795.0	1808.9
10°	1747.5	1739.4	1750.0	1754.9	1768.0	1782.0	1804.8	1833.4	1841.6	1851.5	1867.0
12.5°	1822.9	1813.8	1829.4	1836.7	1849.0	1861.3	1876.9	1904.7	1908.8	1926.7	1941.5
15°	1925.9	1915.3	1925.1	1934.1	1954.6	1966.1	1981.5	2008.6	2008.6	2022.4	2033.1
17.5°	2065.8	2051.9	2059.2	2062.5	2075.6	2092.8	2119.0	2142.8	2155.0	2150.0	2135.4
20°	2274.5	2257.3	2257.3	2240.9	2236.0	2249.9	2284.3	2317.0	2330.1	2304.7	2268.7
22.5°	2587.8	2563.2	2549.4	2493.7	2471.6	2473.2	2507.7	2547.7	2558.3	2513.3	2432.3
25°	2986.2	2947.8	2928.9	2847.1	2797.2	2753.9	2780.9	2832.4	2847.1	2791.5	2660.6
27.5°	3384.7	3387.1	3369.2	3271.0	3188.4	3108.9	3095.1	3149.0	3164.6	3101.5	2939.6
30°	3943.5	3885.4	3851.0	3733.3	3615.4	3504.2	3446.9	3468.9	3473.0	3397.8	3209.6
32.5°	4425.3	4410.7	4337.0	4233.9	4082.6	3908.3	3812.6	3777.4	3770.9	3663.7	3440.3
35°	4974.3	4966.1	4888.4	4765.7	4602.0	4359.9	4187.2	4086.7	4078.5	3927.9	3668.6
37.5°	5532.3	5532.3	5456.2	5322.0	5152.7	4850.0	4587.4	4427.8	4401.7	4205.3	3900.9
40°	5977.4	5950.4	5964.3	5907.8	5714.0	5392.4	5031.6	4800.1	4764.9	4529.3	4148.0
42.5°	6230.2	6221.2	6304.7	6367.6	6288.3	6031.4	5520.9	5203.4	5154.3	4886.0	4432.7
45°	6286.6	6276.8	6425.7	6656.5	6767.7	6662.2	6052.6	5628.1	5568.3	5259.1	4737.9
47.5°	6156.6	6136.9	6355.4	6719.5	7076.2	7261.9	6628.7	6088.6	6001.9	5622.3	5051.2
50°	5765.5	5746.7	6077.2	6560.7	7180.0	7669.4	7253.7	6577.1	6444.6	6011.7	5367.8
52.5°	4915.4	4924.4	5442.3	6106.6	7043.4	7922.9	7792.0	7091.7	6932.2	6410.1	5664.9
55°	3828.9	3848.6	4485.1	5216.5	6496.9	7884.5	8159.4	7621.9	7463.1	6784.9	5971.6
57.5°	2741.6	2828.4	3424.7	4148.8	5447.3	7274.9	8239.6	8125.8	7972.0	7194.0	6271.9
60°	1777.0	1792.5	2406.2	3136.0	4148.0	6191.7	8076.8	8507.9	8387.7	7611.2	6523.1
62.5°	1138.9	1149.5	1523.4	2193.5	2985.4	4580.8	7528.6	8674.0	8637.2	7887.0	6764.5
65°	837.0	828.8	1023.5	1449.8	2011.0	2825.1	6464.2	8593.8	8666.7	8059.6	6964.1
67.5°	698.7	687.3	783.0	1003.9	1481.6	1604.4	4782.9	8072.7	8339.4	8039.9	7110.5
70°	636.5	626.7	684.8	745.4	1156.0	1074.2	2411.1	7018.1	7428.8	7816.5	7086.7
72.5°	539.2	521.9	601.4	661.8	899.1	823.9	996.5	5390.8	5891.5	7100.7	6753.0
75°	418.1	406.6	474.6	582.5	675.8	643.1	630.0	3273.4	3820.0	5491.4	5907.8
77.5°	331.4	315.8	378.0	454.1	607.9	485.1	459.0	1409.7	1951.3	3505.8	4420.4
80°	249.5	235.6	287.2	359.2	467.2	365.7	296.9	575.1	735.5	1776.2	2222.9
82.5°	177.5	165.2	200.5	263.4	314.2	328.1	182.4	322.4	362.4	684.8	496.6
85°	113.7	106.4	134.2	165.2	199.7	211.0	111.3	168.5	184.9	282.3	206.9
87.5°	62.2	50.7	72.0	76.9	92.5	84.3	53.2	61.4	66.3	102.3	87.5
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°	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8	1737.8
2.5°	1744.2	1746.7	1754.9	1757.4	1763.1	1770.5	1775.4	1780.3	1780.3	1785.2	1785.2
5°	1768.0	1773.8	1790.9	1799.9	1814.7	1829.4	1838.3	1849.0	1855.6	1858.8	1860.5
7.5°	1813.8	1822.9	1847.4	1862.9	1888.3	1908.8	1922.7	1937.4	1940.6	1949.7	1946.4
10°	1876.1	1886.6	1914.5	1943.9	1974.2	1999.6	2012.7	2023.2	2027.3	2029.0	2024.9
12.5°	1947.2	1962.8	1998.7	2034.7	2066.6	2088.7	2092.0	2089.6	2078.1	2068.2	2068.2
15°	2034.7	2048.7	2088.7	2128.0	2159.1	2163.2	2142.8	2129.6	2115.7	2113.2	2113.2
17.5°	2139.5	2146.9	2183.7	2222.1	2224.6	2210.6	2180.4	2168.1	2155.0	2146.0	2146.9
20°	2261.4	2258.9	2285.1	2301.4	2284.3	2241.7	2195.9	2175.5	2162.3	2151.7	2152.5
22.5°	2407.0	2388.1	2384.9	2380.8	2335.0	2245.8	2183.7	2157.4	2137.0	2122.3	2127.2
25°	2618.9	2546.9	2497.0	2469.1	2366.1	2223.7	2144.4	2086.3	2047.8	2022.4	2032.3
27.5°	2883.9	2762.9	2636.9	2569.0	2366.1	2178.7	2049.5	1955.4	1892.4	1866.2	1879.2
30°	3136.8	3009.9	2824.3	2689.3	2360.4	2105.0	1896.5	1765.6	1692.0	1665.7	1681.3
32.5°	3352.8	3214.5	3023.0	2821.0	2346.4	1985.6	1706.6	1561.8	1490.7	1459.6	1475.1
35°	3553.2	3406.0	3222.7	2965.7	2309.6	1810.6	1498.0	1387.5	1308.2	1258.3	1274.7
37.5°	3758.6	3583.5	3411.7	3096.7	2243.3	1606.1	1337.6	1243.6	1150.4	1083.2	1101.3
40°	3981.9	3772.5	3613.7	3174.4	2134.6	1411.3	1213.3	1127.4	1028.4	957.2	971.2
42.5°	4242.9	3999.1	3838.7	3214.5	1985.6	1273.0	1132.3	1048.1	954.8	896.7	908.2
45°	4515.3	4248.6	4044.1	3213.7	1819.6	1208.4	1106.2	1022.6	919.6	859.1	868.9
47.5°	4800.9	4509.6	4221.7	3161.3	1675.6	1217.4	1091.4	967.9	854.1	795.2	803.4
50°	5087.3	4795.2	4393.5	3063.1	1614.2	1197.8	1036.6	890.9	756.8	703.6	706.8
52.5°	5371.1	5098.7	4541.6	2923.2	1552.1	1124.9	966.3	791.2	716.7	679.9	679.9
55°	5656.7	5399.0	4702.7	2719.5	1396.6	1039.9	848.4	753.5	684.8	651.3	648.0
57.5°	5943.1	5745.8	4855.7	2515.8	1201.0	935.1	783.8	707.7	652.9	624.2	619.3
60°	6240.8	6142.6	5013.6	2328.5	1008.0	800.9	736.4	670.9	615.2	583.3	580.9
62.5°	6547.6	6579.6	5137.1	2087.1	830.5	719.1	693.8	626.7	572.7	542.4	541.6
65°	6856.8	7000.9	5218.2	1752.4	673.3	641.4	648.0	578.4	523.6	497.4	496.6
67.5°	7090.0	7304.5	5195.2	1326.2	552.3	567.7	590.7	527.7	476.1	455.7	456.5
70°	7116.3	7268.4	4969.4	908.2	462.3	495.8	526.8	477.8	424.7	409.9	410.7
72.5°	6767.7	6777.5	4340.3	593.2	391.0	435.2	459.8	427.1	375.6	360.8	360.0
75°	5853.9	5605.1	3186.7	391.0	327.3	373.9	396.8	373.9	324.0	327.3	315.8
77.5°	4435.2	3969.6	1934.9	278.2	273.3	314.2	345.2	328.9	286.4	321.5	283.1
80°	2285.1	2147.7	863.2	207.8	216.0	251.1	283.9	262.6	226.6	216.0	197.2
82.5°	523.6	608.7	340.3	148.9	156.3	180.8	216.8	197.2	162.8	137.5	135.8
85°	183.3	200.5	150.6	93.3	91.6	113.0	147.3	131.7	110.5	88.4	93.3
87.5°	58.1	76.1	56.5	37.6	39.3	50.7	67.9	62.2	51.6	33.5	35.2
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)