

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: P964200

Luminaire Tested: **NVN-SB3B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15418 lumens
Efficiency: N/A
Efficacy: 141.2 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): 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



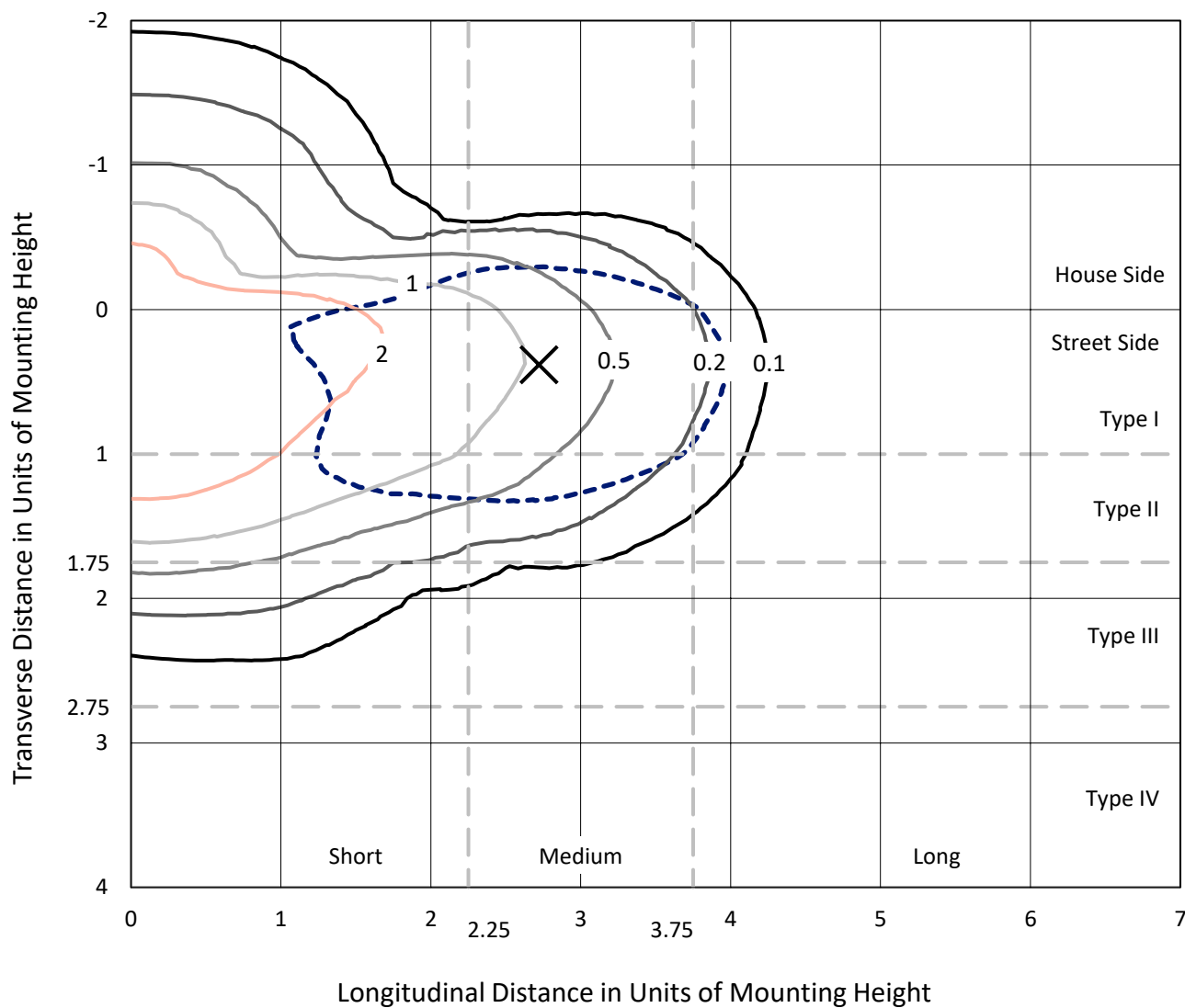
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Iso-Footcandle Lines of Horizontal Illumination

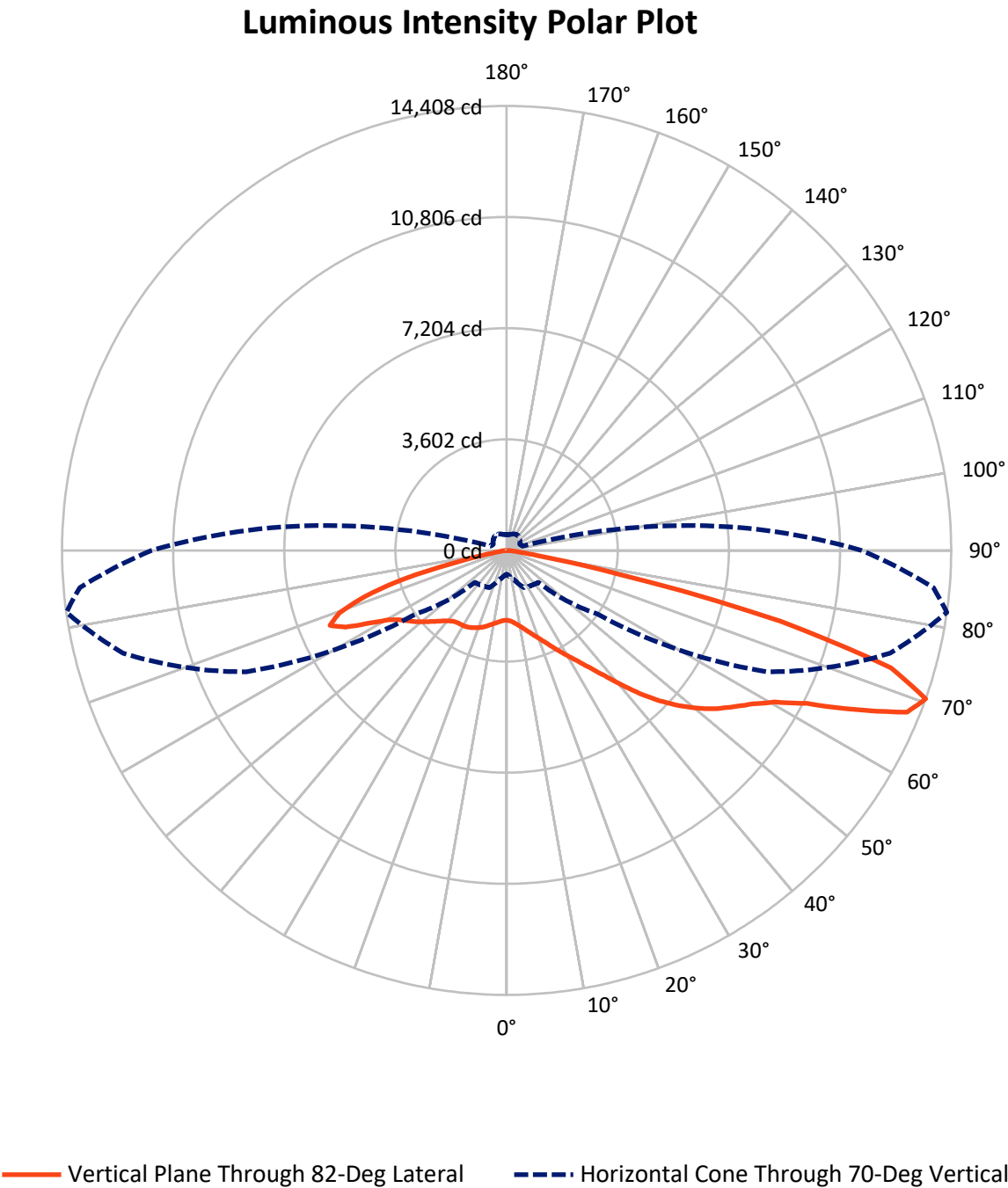
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3800.9	0.0	3800.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11617.1	0.0	11617.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	15418.0	0.0	15418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.4
10°-20°	613.2	4.0
20°-30°	1025.8	6.7
30°-40°	1602.6	10.4
40°-50°	2552.3	16.6
50°-60°	3551.8	23.0
60°-70°	3715.4	24.1
70°-80°	1941.9	12.6
80°-90°	201.6	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°	15418.0	100.0
0°-180°	15418.0	100.0

Coefficient of Utilization



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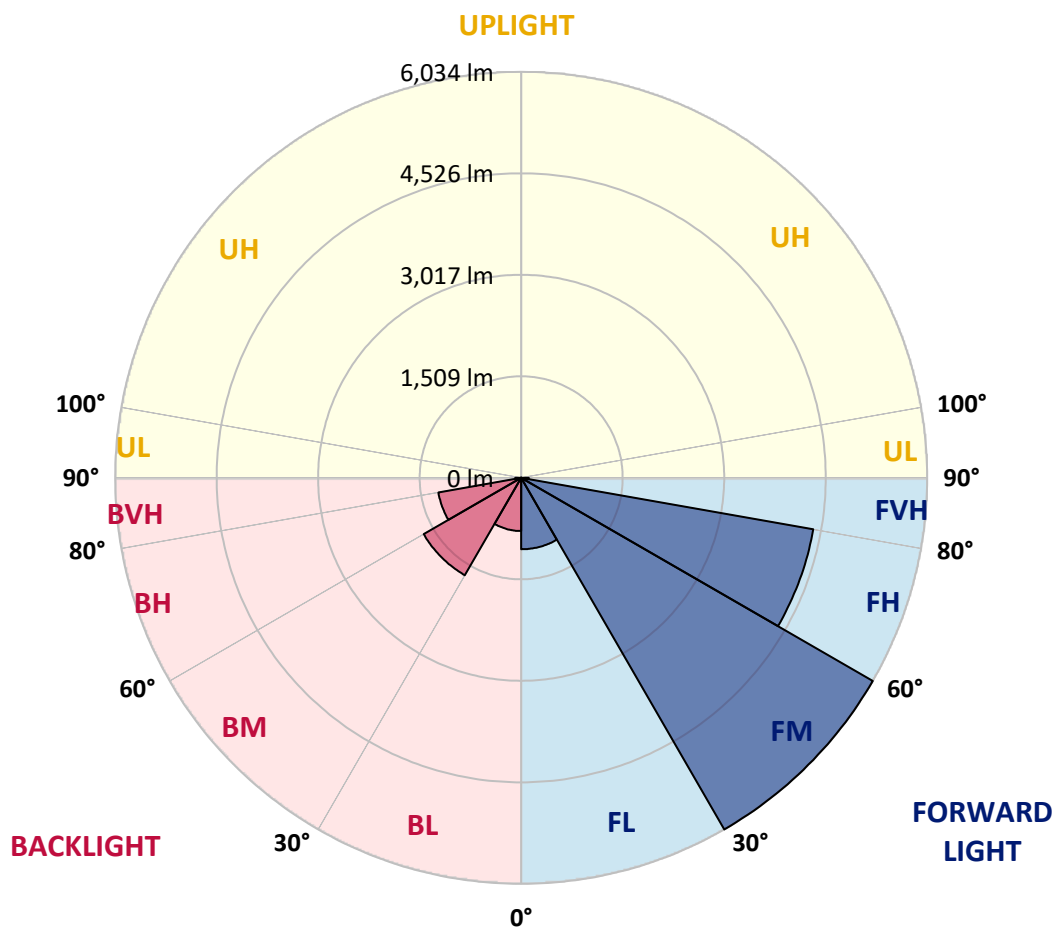
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.7	6.9			
FM	(30°-60°)	6034.5	39.1			
FH	(60°-80°)	4408.1	28.6			G2/5000
FVH	(80°-90°)	112.9	0.7			G2/225
BL	(0°-30°)	790.7	5.1	B2/1000		
BM	(30°-60°)	1672.3	10.8	B2/2500		
BH	(60°-80°)	1249.2	8.1	B3/2500		G3/2500
BVH	(80°-90°)	88.8	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4
2.5°	2314.4	2327.6	2323.5	2319.4	2319.4	2313.6	2312.8	2304.6	2298.2	2287.5	2285.0
5°	2344.0	2357.8	2356.2	2359.4	2370.1	2372.6	2375.0	2370.1	2357.0	2344.0	2338.2
7.5°	2317.7	2333.3	2338.2	2357.8	2390.6	2420.0	2442.1	2451.1	2438.8	2420.0	2411.0
10°	2229.4	2246.6	2263.7	2310.4	2368.5	2438.0	2496.9	2532.1	2529.6	2511.7	2496.1
12.5°	2050.2	2068.2	2105.0	2195.9	2302.3	2424.9	2534.5	2608.2	2633.5	2620.4	2593.5
15°	1907.0	1922.6	1950.4	2043.6	2181.9	2368.5	2548.5	2691.6	2756.2	2748.9	2716.1
17.5°	1902.9	1909.5	1926.7	1970.9	2077.3	2280.1	2533.7	2773.4	2897.0	2896.1	2855.2
20°	1975.0	1977.4	1987.3	1996.2	2056.8	2213.1	2496.1	2841.3	3054.9	3054.9	3010.7
22.5°	2074.8	2073.2	2082.9	2074.8	2104.2	2207.3	2472.4	2901.1	3230.8	3243.8	3188.3
25°	2224.5	2216.3	2213.8	2195.0	2200.8	2260.4	2498.5	2969.0	3439.4	3466.3	3396.8
27.5°	2424.1	2411.0	2402.0	2358.6	2344.0	2370.1	2578.7	3050.8	3671.8	3718.4	3630.0
30°	2684.3	2660.6	2647.5	2572.1	2519.0	2523.1	2699.8	3159.6	3914.7	3990.0	3877.9
32.5°	3039.3	3002.5	2967.4	2843.8	2746.5	2714.5	2856.1	3310.1	4178.2	4298.4	4154.4
35°	3436.9	3407.5	3369.9	3179.2	3029.5	2955.9	3067.1	3520.4	4486.6	4677.2	4489.9
37.5°	3819.9	3794.4	3812.5	3555.5	3362.5	3255.3	3343.7	3802.6	4867.0	5148.5	4910.4
40°	4215.8	4196.1	4198.6	3953.2	3728.2	3607.9	3679.1	4156.9	5303.0	5708.8	5416.0
42.5°	4646.1	4631.4	4582.4	4364.7	4111.9	3999.9	4065.3	4566.0	5771.1	6347.0	5970.6
45°	5128.0	5119.1	5073.2	4823.6	4534.1	4408.0	4496.4	5017.6	6241.4	6947.6	6527.8
47.5°	5544.4	5551.8	5546.1	5335.8	5035.5	4850.7	4956.2	5488.8	6679.2	7512.0	7062.0
50°	5744.9	5783.4	5839.7	5774.3	5587.8	5399.6	5420.1	5943.7	7096.4	8041.3	7574.2
52.5°	5640.2	5712.9	5866.8	5971.4	6043.5	6004.2	5949.4	6395.3	7489.2	8519.2	8058.6
55°	5249.9	5352.1	5607.5	5860.2	6227.6	6513.1	6585.1	6896.0	7872.0	8939.6	8516.7
57.5°	4539.0	4705.1	4934.1	5445.4	6063.9	6759.4	7326.3	7590.5	8277.8	9388.8	8996.1
60°	3320.0	3542.5	3827.1	4588.0	5491.2	6627.6	7957.1	8657.4	8854.6	9970.5	9620.3
62.5°	2124.6	2262.1	2524.0	3240.6	4278.8	5952.7	8150.2	9991.0	9832.2	10924.4	10556.3
65°	1454.6	1542.9	1782.7	2185.2	2766.1	4431.0	7633.1	10990.7	11385.0	12436.3	12156.5
67.5°	1057.0	1124.1	1328.6	1681.2	1802.4	2622.1	5923.3	10944.8	12894.5	13994.0	13558.8
70°	770.7	818.2	989.9	1328.6	1386.7	1458.7	3588.3	9303.7	12861.7	14408.0	13886.8
72.5°	571.0	603.7	719.1	1030.8	1122.5	985.0	1776.1	6761.8	11052.1	13032.0	12613.9
75°	413.2	437.7	522.8	788.6	898.3	750.2	886.0	3951.6	7709.2	9167.1	9240.7
77.5°	315.8	334.7	390.2	577.6	719.1	562.8	549.8	1817.8	3655.4	3673.4	3879.5
80°	253.6	265.9	296.1	406.6	551.4	421.4	358.3	733.9	1155.2	977.6	1025.9
82.5°	186.5	206.9	250.3	285.6	394.3	290.5	218.4	370.6	439.3	378.0	381.2
85°	106.4	120.2	151.4	204.5	251.9	177.5	125.2	164.4	204.5	167.7	149.8
87.5°	37.6	49.1	53.2	80.2	109.7	73.6	48.3	47.5	67.0	49.9	41.7
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°	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4	2260.4
2.5°	2276.8	2272.7	2256.4	2234.3	2211.4	2189.3	2181.9	2166.4	2155.8	2150.0	2156.6
5°	2322.6	2309.5	2271.1	2222.0	2170.4	2114.9	2075.6	2039.5	2013.4	1988.9	1998.6
7.5°	2388.1	2365.2	2299.0	2213.1	2121.4	2029.0	1960.2	1907.8	1872.7	1849.8	1854.7
10°	2464.2	2429.0	2327.6	2199.1	2057.6	1925.1	1844.1	1799.1	1776.9	1764.7	1767.9
12.5°	2551.7	2501.8	2357.0	2167.3	1960.2	1808.9	1753.3	1740.1	1741.0	1741.8	1743.4
15°	2659.8	2590.2	2380.8	2097.7	1833.4	1719.7	1709.9	1731.1	1753.3	1763.9	1763.1
17.5°	2781.6	2683.4	2384.9	1983.2	1709.1	1662.4	1693.5	1739.3	1772.8	1787.6	1790.9
20°	2912.5	2778.4	2355.3	1821.1	1606.8	1615.8	1671.5	1730.3	1767.1	1786.0	1790.9
22.5°	3062.3	2879.8	2285.0	1651.0	1523.4	1565.1	1630.6	1687.8	1726.2	1745.1	1750.0
25°	3233.3	2993.5	2174.5	1507.8	1451.4	1507.8	1573.3	1620.7	1651.8	1669.0	1673.9
27.5°	3423.0	3112.1	2027.3	1394.1	1388.4	1448.9	1502.9	1539.8	1556.1	1569.2	1574.1
30°	3613.6	3220.1	1849.0	1308.2	1333.5	1390.8	1429.3	1445.7	1450.6	1453.0	1458.7
32.5°	3819.9	3313.4	1661.6	1237.0	1281.1	1334.3	1357.3	1364.6	1341.7	1326.1	1331.1
35°	4069.4	3413.2	1478.4	1180.6	1229.7	1275.4	1282.8	1276.2	1249.3	1217.4	1219.0
37.5°	4377.8	3537.6	1331.9	1140.4	1181.4	1211.7	1202.6	1201.0	1203.5	1165.8	1168.3
40°	4755.8	3699.5	1224.8	1109.4	1142.1	1148.6	1123.3	1137.2	1149.4	1092.2	1093.9
42.5°	5175.4	3895.1	1156.8	1088.1	1109.4	1093.9	1054.5	1070.1	1068.5	993.2	992.4
45°	5603.4	4107.8	1133.1	1072.6	1079.1	1048.1	1004.7	1008.7	974.4	906.5	909.0
47.5°	6028.7	4336.1	1147.8	1059.4	1041.5	1006.2	972.7	954.8	904.0	853.3	853.3
50°	6446.0	4575.8	1201.8	1033.3	989.9	969.4	944.9	913.1	859.1	815.7	812.4
52.5°	6833.0	4817.1	1262.4	989.9	925.3	937.6	922.0	885.2	832.0	787.8	788.6
55°	7199.5	5058.5	1286.1	930.2	864.8	909.8	900.8	832.8	769.1	733.1	729.8
57.5°	7598.7	5348.9	1259.9	854.1	815.7	877.8	843.5	768.2	731.4	704.4	701.9
60°	8151.8	5804.6	1203.5	760.0	769.1	830.4	771.5	740.4	700.3	670.0	668.4
62.5°	9070.5	6654.6	1112.6	666.8	714.2	760.0	737.2	706.0	665.1	635.7	635.7
65°	10428.7	7836.0	941.7	594.0	652.8	691.4	700.3	669.2	626.7	595.6	597.3
67.5°	11574.0	8577.2	712.6	533.4	589.9	635.7	661.0	630.8	585.8	555.6	556.4
70°	11511.1	8038.9	544.1	473.7	534.2	580.9	613.6	589.9	541.6	513.0	515.4
72.5°	10224.1	6725.0	440.1	413.2	477.8	523.6	562.8	544.9	495.8	468.0	468.0
75°	7511.2	4773.7	351.8	351.8	407.4	463.9	507.3	495.8	450.8	431.1	425.4
77.5°	3166.1	2002.7	275.7	292.0	338.7	398.4	452.4	456.5	417.3	441.8	400.9
80°	841.8	552.3	210.2	229.9	265.9	328.9	393.5	391.9	349.3	326.5	303.5
82.5°	320.7	217.6	149.8	162.0	192.3	251.9	311.7	321.5	279.0	241.4	241.4
85°	123.5	93.3	92.5	97.4	112.0	166.9	235.6	243.8	210.2	178.4	184.1
87.5°	31.9	27.8	34.3	32.7	51.6	89.2	135.0	139.9	128.4	74.4	106.4
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)