

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: P964164

Luminaire Tested: **NVN-SB3B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10996.2 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

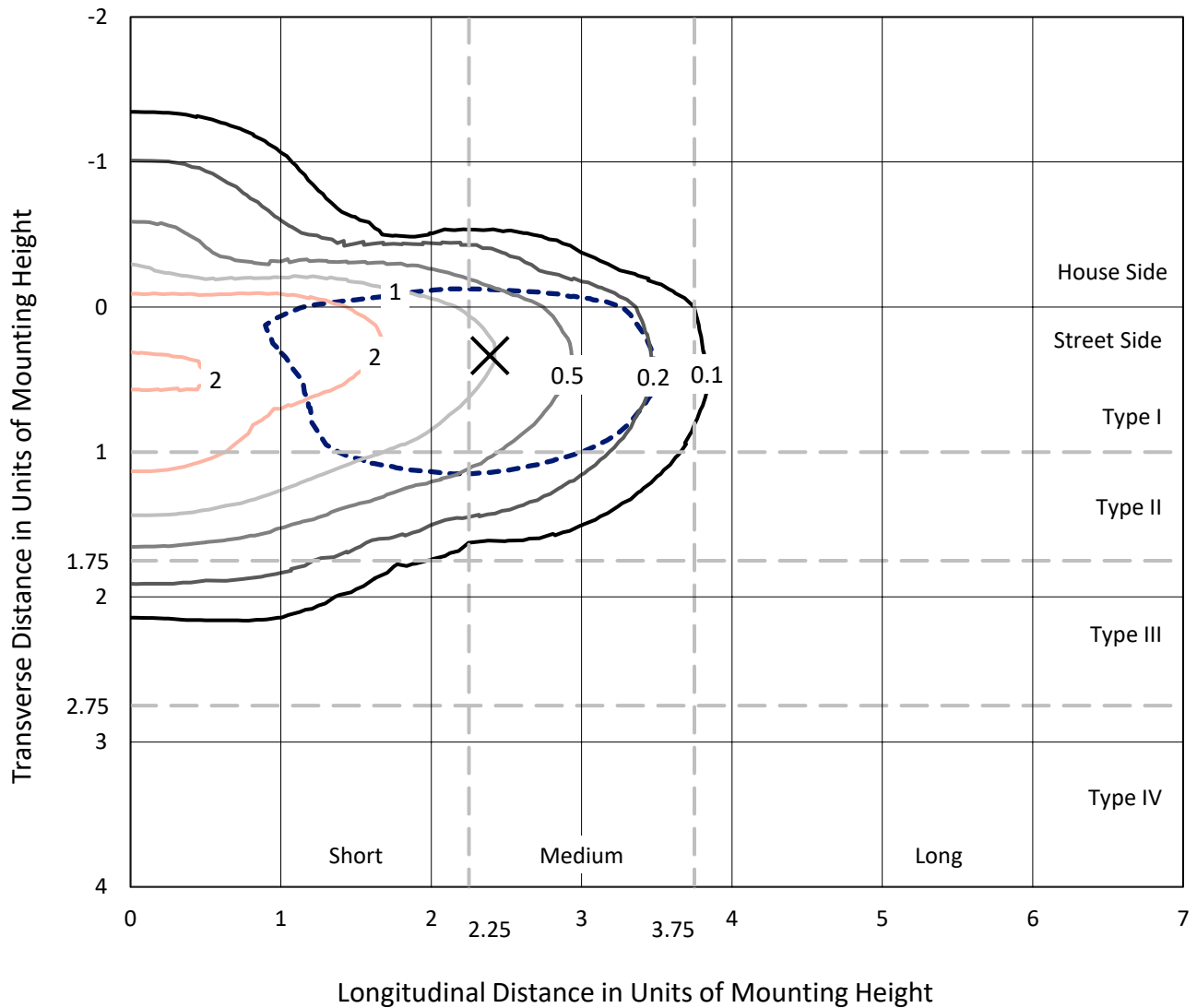
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

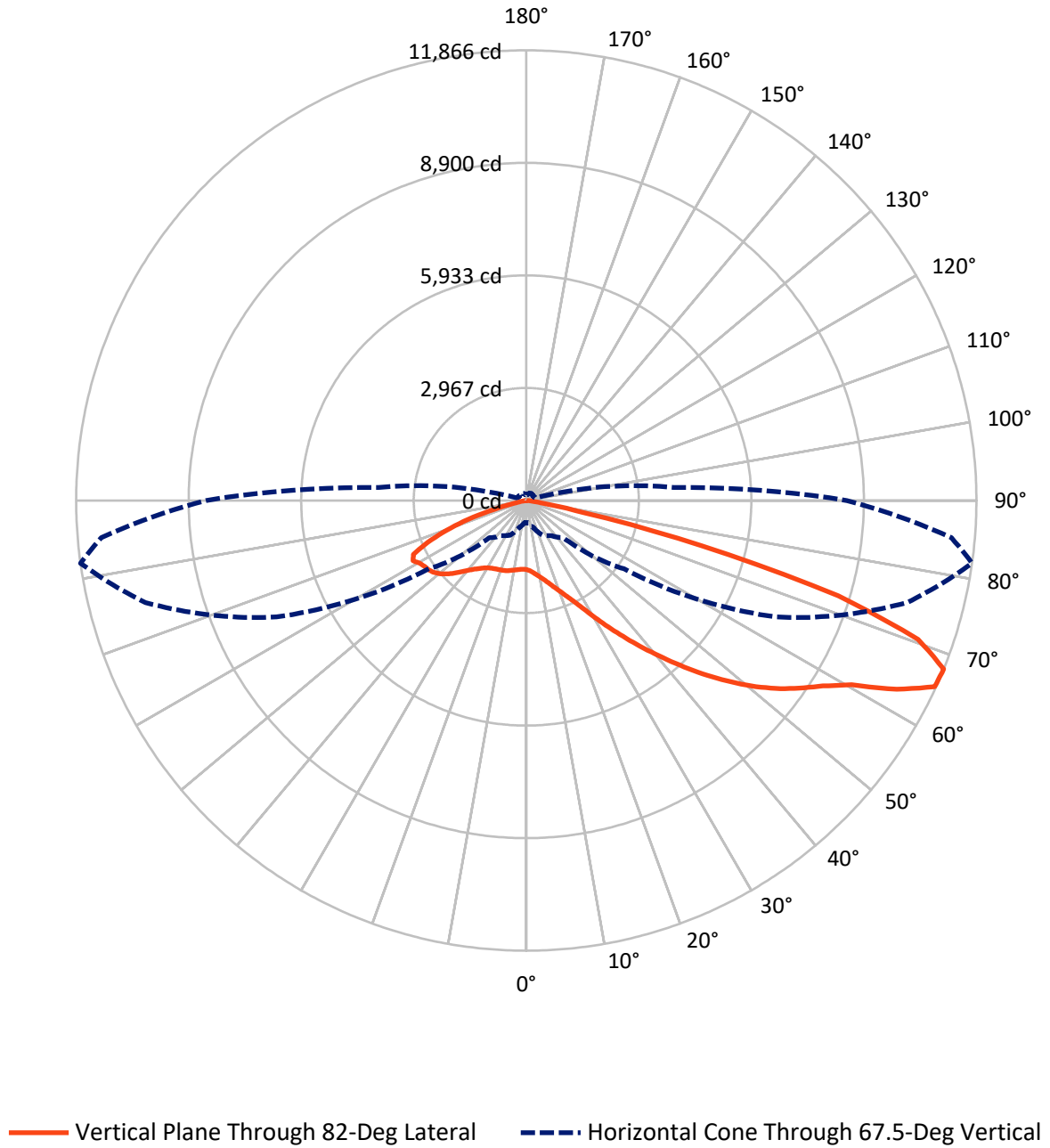
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1991.9	0.0	1991.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9004.3	0.0	9004.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	10996.2	0.0	10996.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	1.5
10°-20°	421.8	3.8
20°-30°	675.5	6.1
30°-40°	1194.5	10.9
40°-50°	2092.9	19.0
50°-60°	2791.3	25.4
60°-70°	2598.6	23.6
70°-80°	997.3	9.1
80°-90°	61.9	0.6
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°	10996.2	100.0
0°-180°	10996.2	100.0

Coefficient of Utilization



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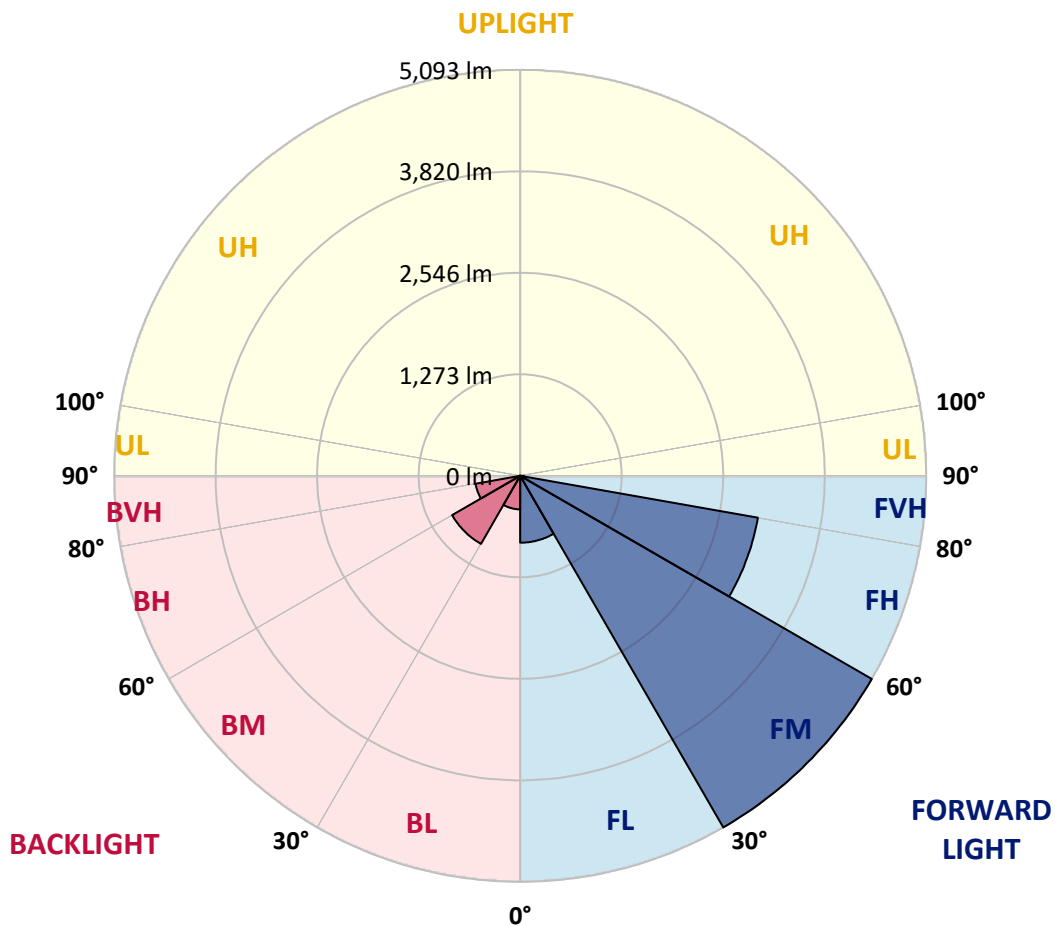
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.9	7.6			
FM (30°-60°)	5093.0	46.3			
FH (60°-80°)	3027.4	27.5			G2/5000
FVH (80°-90°)	45.0	0.4			G1/100
BL (0°-30°)	420.7	3.8	B1/500		
BM (30°-60°)	985.8	9.0	B1/1000		
BH (60°-80°)	568.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	16.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1925.4	1936.5	1930.2	1927.0	1921.5	1913.6	1907.2	1887.4	1866.8	1853.4	1848.6
5°	1964.2	1975.3	1974.5	1977.6	1981.6	1984.0	1982.5	1960.2	1931.0	1908.0	1894.5
7.5°	1931.0	1943.6	1954.0	1969.7	1997.4	2026.7	2041.0	2036.3	2006.1	1974.5	1957.9
10°	1836.7	1850.2	1874.7	1911.9	1970.6	2033.9	2086.9	2111.5	2092.4	2057.6	2034.6
12.5°	1664.2	1677.6	1725.9	1806.7	1904.9	2014.8	2116.2	2181.9	2186.6	2151.9	2124.9
15°	1470.2	1483.7	1535.1	1636.4	1786.1	1962.7	2132.0	2256.3	2298.3	2268.2	2235.7
17.5°	1349.8	1361.7	1400.6	1482.0	1638.1	1858.1	2126.5	2335.5	2431.3	2407.5	2368.8
20°	1313.4	1323.7	1341.9	1398.9	1528.8	1749.7	2090.1	2410.0	2574.6	2561.2	2517.6
22.5°	1352.2	1361.7	1367.2	1392.6	1474.2	1678.4	2044.2	2485.9	2740.8	2742.5	2689.4
25°	1441.7	1451.2	1444.8	1460.7	1496.3	1656.2	2026.7	2575.4	2949.8	2967.3	2907.1
27.5°	1589.0	1589.8	1574.7	1573.9	1579.4	1689.5	2045.0	2671.1	3213.5	3246.0	3171.6
30°	1884.3	1872.4	1814.6	1752.0	1723.5	1789.2	2095.6	2784.4	3524.7	3582.5	3489.0
32.5°	2339.5	2322.0	2215.9	2066.3	1915.9	1950.0	2186.6	2913.5	3863.5	3968.0	3854.0
35°	2833.5	2828.7	2717.9	2495.5	2232.6	2178.7	2334.7	3082.9	4233.2	4399.5	4264.1
37.5°	3292.7	3290.2	3227.0	2964.9	2645.1	2497.8	2572.2	3304.6	4629.1	4869.8	4709.8
40°	3712.2	3719.4	3656.1	3421.8	3099.5	2907.1	2895.2	3578.5	5069.2	5382.0	5191.9
42.5°	4074.9	4082.8	4018.6	3845.3	3548.3	3360.0	3291.9	3914.2	5499.1	5932.2	5707.4
45°	4321.1	4370.2	4360.7	4222.1	4009.2	3813.6	3768.5	4335.3	5989.2	6515.7	6252.1
47.5°	4390.8	4435.9	4507.1	4526.1	4396.3	4203.9	4257.7	4842.8	6484.8	7100.0	6799.8
50°	4219.0	4260.9	4408.9	4606.1	4696.3	4637.0	4733.6	5386.7	6992.2	7682.7	7337.5
52.5°	3880.1	3922.9	4109.7	4421.6	4789.8	4976.6	5211.0	5922.7	7483.9	8234.4	7846.5
55°	3390.1	3435.2	3675.0	4028.1	4611.7	5116.7	5609.2	6457.9	7934.4	8730.8	8305.7
57.5°	2723.4	2756.7	3006.1	3500.1	4163.5	4977.4	5902.9	7042.2	8358.8	9218.5	8761.0
60°	1775.0	1804.3	2094.1	2645.1	3420.9	4511.8	5961.5	7693.8	8922.4	9852.7	9374.5
62.5°	1180.4	1200.2	1372.0	1776.5	2409.2	3618.0	5618.6	8213.8	9749.0	10956.3	10426.7
65°	810.0	829.7	1001.5	1283.3	1556.5	2393.3	4633.0	8145.0	10497.9	11832.7	11206.5
67.5°	577.9	594.6	740.3	1006.2	1126.6	1390.2	3140.7	7264.6	10390.2	11866.0	11248.5
70°	414.1	423.5	543.9	783.8	895.4	835.3	1746.5	5556.1	9097.4	10957.1	10391.9
72.5°	289.8	292.9	377.6	597.0	721.2	609.6	831.3	3704.3	6880.6	8600.3	8056.3
75°	196.4	200.3	254.1	437.8	578.7	465.6	440.1	1986.3	4039.2	4760.5	4267.3
77.5°	120.3	121.9	163.9	299.3	433.1	354.6	283.4	841.5	1562.8	1534.3	1307.9
80°	68.1	68.1	104.6	186.0	295.3	228.8	198.7	357.8	494.8	434.6	383.1
82.5°	38.0	38.7	76.0	115.6	195.6	135.4	109.3	165.4	213.7	189.2	164.7
85°	15.8	17.4	46.7	54.6	93.4	67.3	44.4	69.7	79.1	70.4	51.5
87.5°	1.5	2.4	14.2	10.2	11.1	13.4	6.4	13.4	11.1	11.1	7.9
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°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1833.6	1821.7	1791.6	1756.7	1710.8	1688.7	1658.7	1638.1	1620.6	1622.2	1606.4
5°	1869.2	1839.2	1771.8	1687.9	1583.4	1509.0	1429.8	1375.1	1330.9	1321.3	1300.0
7.5°	1918.3	1870.8	1752.9	1601.6	1425.1	1291.3	1171.7	1094.9	1040.3	1022.8	1005.4
10°	1981.6	1912.8	1728.3	1493.1	1239.0	1068.8	940.5	880.4	843.2	830.5	821.0
12.5°	2055.2	1961.0	1695.9	1360.9	1047.4	883.6	802.0	771.9	760.0	756.0	753.7
15°	2147.9	2021.2	1646.8	1204.2	885.1	770.3	735.4	731.5	733.1	731.5	730.7
17.5°	2258.0	2086.9	1566.8	1042.6	775.8	712.5	699.9	703.0	706.9	706.2	704.6
20°	2378.3	2151.9	1464.6	899.3	701.4	671.4	664.2	667.4	670.6	669.0	668.2
22.5°	2515.2	2221.5	1351.5	787.7	651.6	633.3	625.5	626.3	626.3	623.1	621.5
25°	2679.1	2298.3	1232.7	708.6	613.6	599.3	589.8	586.6	581.9	572.4	570.8
27.5°	2874.6	2379.8	1118.7	653.1	583.5	570.0	558.9	551.0	539.2	523.3	521.7
30°	3094.8	2478.8	1022.1	618.3	559.8	546.2	533.6	521.7	504.3	484.5	483.0
32.5°	3353.6	2584.8	951.6	595.3	538.3	524.1	509.0	494.8	475.8	456.0	456.8
35°	3662.4	2713.2	910.4	579.5	521.7	502.8	486.1	470.3	456.0	438.6	437.1
37.5°	3997.3	2849.3	897.8	571.6	510.7	481.3	462.4	451.3	449.7	439.4	438.6
40°	4363.8	3010.8	907.3	566.8	498.8	460.7	440.1	437.8	441.8	423.5	424.4
42.5°	4751.8	3202.4	923.1	561.3	482.2	440.1	420.4	420.4	417.2	391.9	391.9
45°	5171.3	3423.3	939.0	547.9	462.4	419.6	404.6	399.0	385.6	361.0	360.2
47.5°	5594.1	3648.2	950.8	523.3	438.6	402.2	388.7	376.1	356.3	334.0	333.3
50°	5995.5	3850.0	938.2	486.9	411.6	385.6	371.4	353.9	332.5	317.4	315.1
52.5°	6354.2	4025.0	884.4	444.1	383.1	368.2	355.5	337.2	319.8	304.0	302.5
55°	6666.1	4166.7	789.4	403.7	357.8	353.1	340.4	317.4	293.8	280.2	278.7
57.5°	6965.4	4274.4	670.6	370.5	334.9	336.5	317.4	296.8	274.7	260.5	258.9
60°	7363.6	4418.5	550.2	339.7	310.4	315.1	294.5	279.5	251.7	233.6	231.1
62.5°	8000.1	4642.5	437.1	301.7	281.9	283.4	274.7	256.6	223.2	201.9	200.3
65°	8505.2	4560.2	344.4	260.5	249.4	251.7	251.7	232.0	196.4	171.8	169.4
67.5°	8448.3	3904.6	274.7	220.1	218.5	220.1	225.6	209.0	174.1	154.4	151.2
70°	7782.4	3105.9	220.1	182.9	190.0	186.0	201.9	190.8	156.7	136.9	134.6
72.5°	6350.2	2237.4	167.8	151.2	145.7	152.0	182.0	171.8	130.6	108.4	106.1
75°	3710.7	1193.9	125.0	119.5	105.3	126.7	161.5	146.5	99.7	79.9	77.6
77.5°	1208.2	416.5	91.8	87.8	78.4	102.1	137.8	123.5	81.6	63.3	61.0
80°	323.8	125.9	62.5	57.8	50.6	76.0	109.3	98.2	58.6	41.2	40.4
82.5°	129.9	53.1	36.4	32.5	27.7	52.3	86.3	79.1	43.6	26.1	26.1
85°	41.9	17.4	13.4	10.2	12.7	32.5	51.5	53.8	30.9	13.4	10.2
87.5°	5.5	2.4	2.4	3.2	2.4	5.5	15.8	15.1	8.7	1.5	0.0
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)