

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: P883739

Luminaire Tested: **NVN-SB4B-722-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18197 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

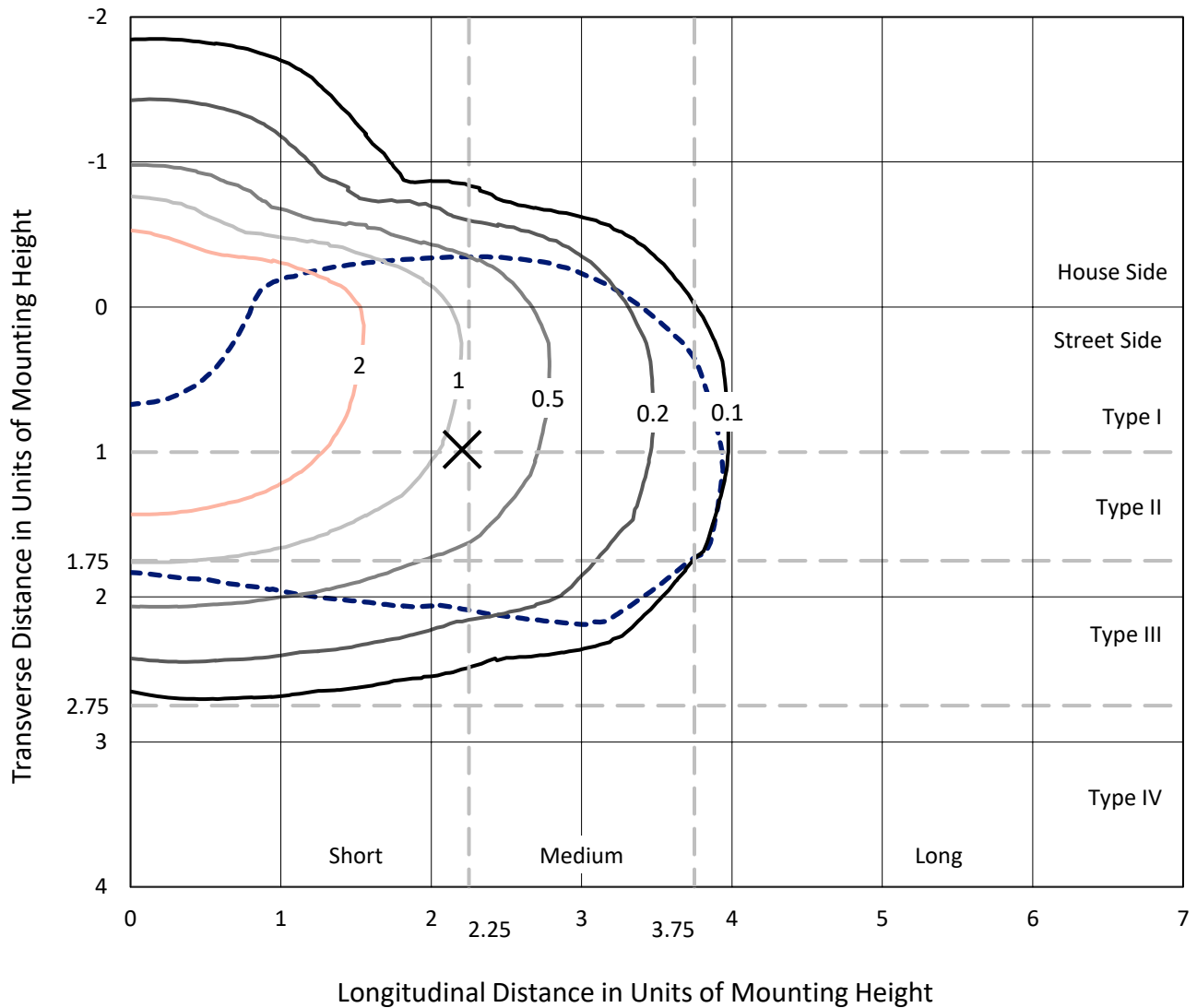
Input Watts (W): 147
Input Voltage (V): 120.0
Input Current (Ain): 1.255
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883739
 CATALOG NUMBER: NVN-SB4B-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

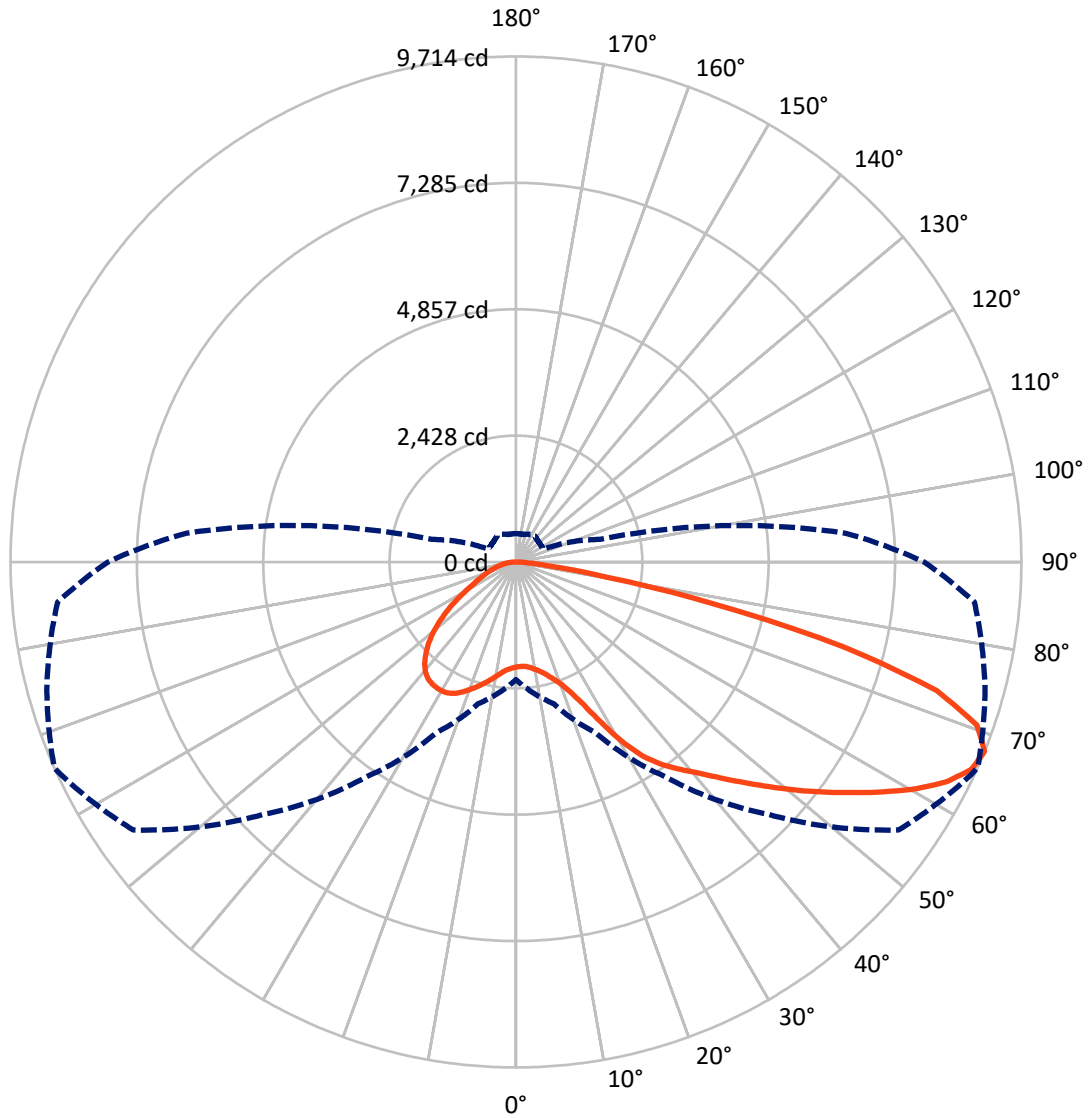
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P883739
CATALOG NUMBER: NVN-SB4B-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P883739
 CATALOG NUMBER: NVN-SB4B-722-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4524.6	0.0	4524.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13672.4	0.0	13672.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	18197.0	0.0	18197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	1.1
10°-20°	661.1	3.6
20°-30°	1274.3	7.0
30°-40°	2234.3	12.3
40°-50°	3321.6	18.3
50°-60°	4210.5	23.1
60°-70°	4119.9	22.6
70°-80°	1965.2	10.8
80°-90°	210.0	1.2
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°	18197.0	100.0
0°-180°	18197.0	100.0

Coefficient of Utilization



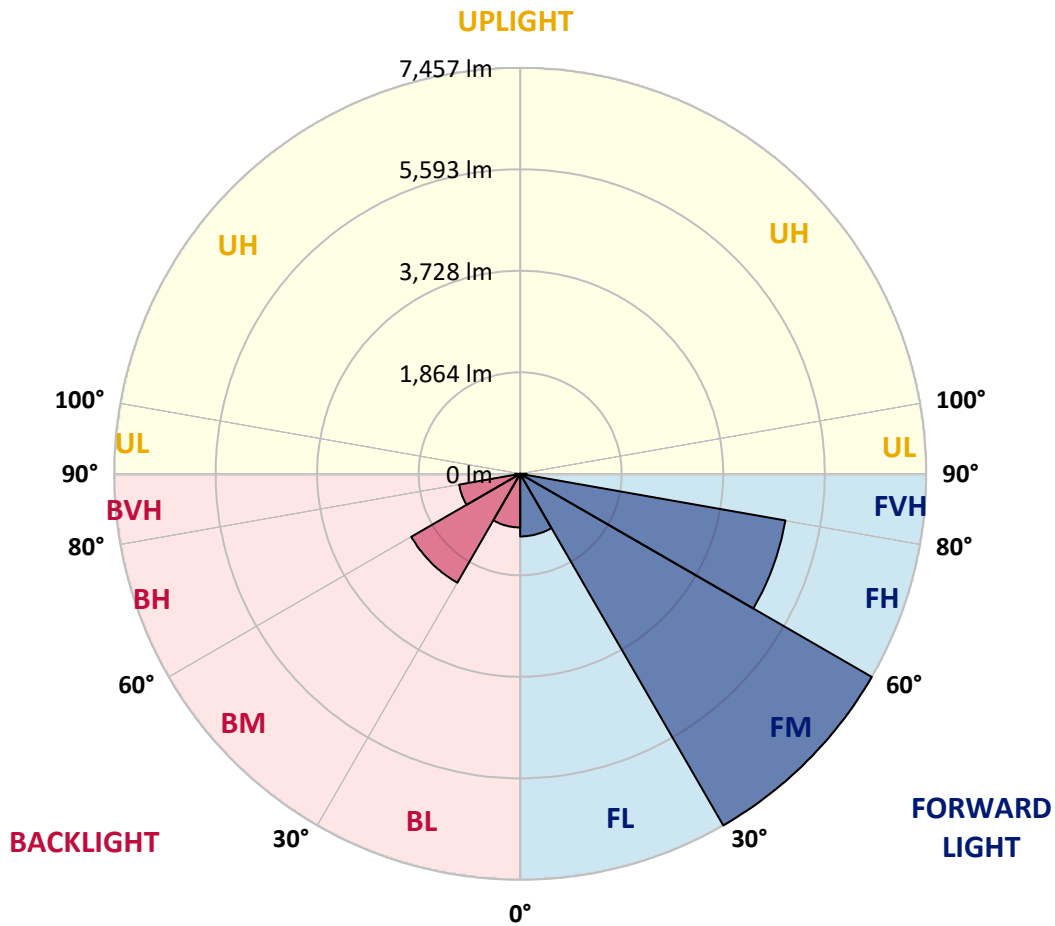
REPORT NUMBER: P883739
 CATALOG NUMBER: NVN-SB4B-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.9	6.3			
FM (30°-60°)	7457.0	41.0			
FH (60°-80°)	4946.4	27.2			G2/5000
FVH (80°-90°)	119.1	0.7			G2/225
BL (0°-30°)	985.6	5.4	B2/1000		
BM (30°-60°)	2309.4	12.7	B2/2500		
BH (60°-80°)	1138.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	90.9	0.5			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 III Short



REPORT NUMBER: P883739

CATALOG NUMBER: NVN-SB4B-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3
2.5°	1997.3	2008.7	2005.9	2001.1	2000.1	2002.0	2004.9	2007.8	2006.8	2011.6	2019.2
5°	1991.5	2003.0	2002.0	2002.0	2005.9	2013.5	2018.3	2023.1	2018.3	2024.0	2034.5
7.5°	1995.3	2003.9	2007.8	2011.6	2021.2	2035.5	2047.0	2057.5	2051.8	2058.4	2071.8
10°	2044.1	2050.8	2054.6	2054.6	2061.3	2077.6	2089.0	2108.2	2103.4	2113.9	2131.1
12.5°	2133.0	2139.7	2139.7	2135.9	2140.7	2151.2	2155.0	2176.0	2167.4	2184.6	2201.9
15°	2242.0	2255.4	2244.9	2238.2	2240.1	2250.6	2249.7	2265.9	2257.3	2271.6	2286.9
17.5°	2362.5	2379.7	2362.5	2361.5	2357.7	2369.2	2370.1	2384.5	2369.2	2379.7	2390.2
20°	2504.9	2528.8	2514.5	2519.3	2510.7	2515.5	2520.2	2541.3	2517.4	2525.0	2522.1
22.5°	2705.7	2734.4	2719.1	2737.3	2731.5	2727.7	2726.7	2764.0	2726.7	2729.6	2701.9
25°	2998.3	3032.7	3005.9	3030.8	3030.8	3043.2	3057.5	3105.4	3043.2	3025.0	2953.3
27.5°	3430.4	3464.8	3412.3	3427.6	3422.8	3453.4	3438.1	3556.6	3489.7	3460.1	3315.7
30°	3950.5	4011.7	3912.3	3908.5	3903.7	3952.4	3974.4	4052.8	3984.9	3955.3	3781.3
32.5°	4512.7	4576.8	4458.2	4423.8	4405.6	4435.3	4417.1	4480.2	4433.3	4387.5	4172.3
35°	5107.4	5170.5	5057.7	4990.7	4918.1	4855.9	4790.9	4807.2	4763.2	4693.4	4470.6
37.5°	5669.6	5785.2	5665.7	5594.0	5460.2	5338.8	5157.1	5081.6	5040.5	4976.4	4751.7
40°	6242.3	6308.2	6217.4	6156.2	6010.9	5820.6	5530.0	5370.3	5314.9	5252.7	5062.5
42.5°	6663.9	6727.0	6678.2	6636.2	6522.4	6301.5	5925.8	5726.0	5645.7	5575.9	5414.3
45°	6998.5	7045.4	7014.8	7030.1	6981.3	6767.1	6336.0	6107.4	6024.3	5939.2	5812.0
47.5°	7133.3	7183.0	7231.8	7322.6	7405.8	7248.1	6776.7	6520.5	6432.5	6345.5	6220.3
50°	7118.0	7168.7	7310.2	7503.3	7761.5	7708.9	7241.4	6960.3	6879.0	6779.6	6663.9
52.5°	6995.6	7053.0	7234.7	7555.9	7967.0	8054.0	7714.6	7414.4	7337.9	7219.4	7103.7
55°	6674.4	6708.8	6981.3	7436.4	8015.8	8295.0	8178.3	7898.2	7821.7	7656.3	7530.1
57.5°	6078.8	6128.5	6525.3	7114.2	7893.4	8458.5	8585.6	8406.8	8333.2	8095.1	7963.2
60°	5301.5	5380.8	5835.0	6573.1	7581.7	8457.5	8955.6	8906.9	8845.7	8527.3	8389.6
62.5°	4421.9	4513.7	4950.6	5808.2	7036.8	8217.5	9187.0	9325.6	9294.1	8926.0	8750.1
65°	3396.0	3459.1	3894.1	4818.7	6188.7	7702.2	9213.8	9611.5	9617.2	9229.1	8938.4
67.5°	2261.1	2442.8	2820.4	3615.9	5052.9	6859.9	8978.6	9658.3	9713.8	9333.3	8843.8
70°	1103.3	1342.3	1712.3	2350.0	3615.9	5568.2	8363.8	9274.0	9397.3	9029.2	8279.7
72.5°	458.0	535.4	737.1	1159.7	2075.7	3757.4	7128.5	8231.9	8460.4	8000.5	6961.2
75°	308.8	334.6	421.6	594.7	945.6	1852.9	5140.8	6138.0	6506.1	6042.4	4939.1
77.5°	238.1	254.3	306.9	415.9	562.2	700.8	2751.6	3699.1	3889.3	3600.6	2569.9
80°	187.4	199.8	229.5	303.1	398.7	374.8	937.9	1676.0	1786.0	1498.2	826.1
82.5°	162.5	167.3	164.4	205.6	264.8	218.9	307.9	618.6	682.6	495.3	269.6
85°	117.6	131.0	136.7	127.2	140.5	110.9	126.2	218.9	240.9	215.1	152.0
87.5°	47.8	70.8	87.0	82.2	51.6	31.6	39.2	64.1	73.6	80.3	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P883739
 CATALOG NUMBER: NVN-SB4B-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3	2018.3
2.5°	2020.2	2026.9	2031.7	2037.4	2041.2	2047.0	2058.4	2065.1	2066.1	2070.9	2069.9
5°	2038.4	2047.9	2058.4	2073.7	2090.9	2105.3	2127.3	2142.6	2148.3	2153.1	2152.1
7.5°	2077.6	2090.9	2110.1	2136.8	2161.7	2180.8	2207.6	2225.8	2243.9	2250.6	2251.6
10°	2135.9	2155.0	2182.7	2219.1	2245.8	2270.7	2298.4	2313.7	2331.9	2339.5	2343.4
12.5°	2208.5	2228.6	2265.0	2315.6	2340.5	2357.7	2367.3	2363.4	2367.3	2374.0	2375.9
15°	2291.7	2313.7	2354.8	2409.3	2426.5	2411.2	2390.2	2371.1	2368.2	2370.1	2376.8
17.5°	2390.2	2406.5	2454.3	2500.2	2487.7	2424.6	2378.7	2348.1	2332.8	2328.1	2334.8
20°	2527.9	2527.9	2567.1	2595.8	2512.6	2405.5	2333.8	2284.1	2252.5	2239.1	2236.3
22.5°	2695.2	2679.9	2704.8	2684.7	2507.8	2352.0	2252.5	2166.5	2118.7	2099.6	2096.7
25°	2907.4	2889.3	2882.6	2758.3	2473.4	2266.9	2105.3	2001.1	1959.0	1948.5	1950.4
27.5°	3227.7	3181.8	3094.8	2798.5	2410.3	2133.0	1933.2	1836.6	1812.7	1813.7	1816.6
30°	3654.1	3562.4	3349.2	2805.1	2307.0	1943.7	1757.3	1688.4	1677.0	1681.7	1698.0
32.5°	4049.0	3962.0	3609.2	2774.5	2148.3	1758.2	1599.5	1553.6	1536.4	1542.2	1549.8
35°	4358.8	4334.9	3850.1	2731.5	1953.3	1584.2	1458.0	1418.8	1385.4	1377.7	1383.4
37.5°	4651.3	4641.8	4030.8	2671.3	1760.1	1460.9	1344.3	1292.6	1243.9	1217.1	1218.0
40°	4972.6	4963.0	4149.4	2578.6	1589.0	1353.8	1241.9	1174.1	1113.8	1065.1	1069.9
42.5°	5334.0	5277.6	4205.8	2445.7	1443.7	1263.0	1158.8	1067.0	987.6	942.7	945.6
45°	5728.8	5601.7	4204.8	2276.4	1321.3	1179.8	1069.9	939.8	866.2	824.1	822.2
47.5°	6147.6	5911.5	4153.2	2089.0	1202.8	1088.0	932.2	832.7	784.0	758.2	752.4
50°	6579.8	6201.1	4065.3	1873.9	1081.3	983.8	846.1	778.3	741.0	717.1	708.5
52.5°	6986.1	6464.1	3959.1	1630.1	958.0	882.5	807.9	755.3	716.1	689.3	677.9
55°	7363.7	6690.7	3809.0	1380.6	857.6	814.6	789.7	745.7	700.8	669.3	656.8
57.5°	7699.3	6837.9	3549.9	1146.3	785.9	767.7	770.6	729.5	677.9	651.1	633.9
60°	7978.5	6945.9	3166.5	929.3	727.6	721.8	741.0	698.9	638.7	608.1	594.7
62.5°	8145.8	6944.0	2696.1	761.0	677.9	679.8	701.8	660.7	599.5	570.8	562.2
65°	8131.5	6773.8	2179.9	651.1	630.1	632.0	660.7	618.6	567.0	549.7	548.8
67.5°	7843.7	6358.9	1672.2	579.4	577.5	586.1	619.5	589.9	546.9	545.0	547.8
70°	7064.5	5497.5	1204.7	522.0	523.0	535.4	579.4	571.7	536.4	540.2	539.2
72.5°	5664.8	4191.5	808.8	461.8	462.7	482.8	541.1	557.4	525.8	576.5	584.2
75°	3772.7	2613.9	520.1	397.7	398.7	424.5	507.7	529.7	497.2	574.6	579.4
77.5°	1812.7	1175.0	376.7	334.6	334.6	358.5	438.8	474.2	423.5	446.5	409.2
80°	626.2	441.7	296.4	269.6	263.9	280.1	370.0	411.1	365.2	336.5	315.5
82.5°	246.7	229.5	238.1	209.4	190.3	200.8	287.8	339.4	268.7	242.8	241.9
85°	141.5	149.1	168.3	138.6	109.9	123.3	211.3	243.8	202.7	178.8	182.6
87.5°	38.2	52.6	77.4	71.7	49.7	52.6	100.4	134.8	116.6	89.9	92.7
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)