

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: P883137

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14644 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

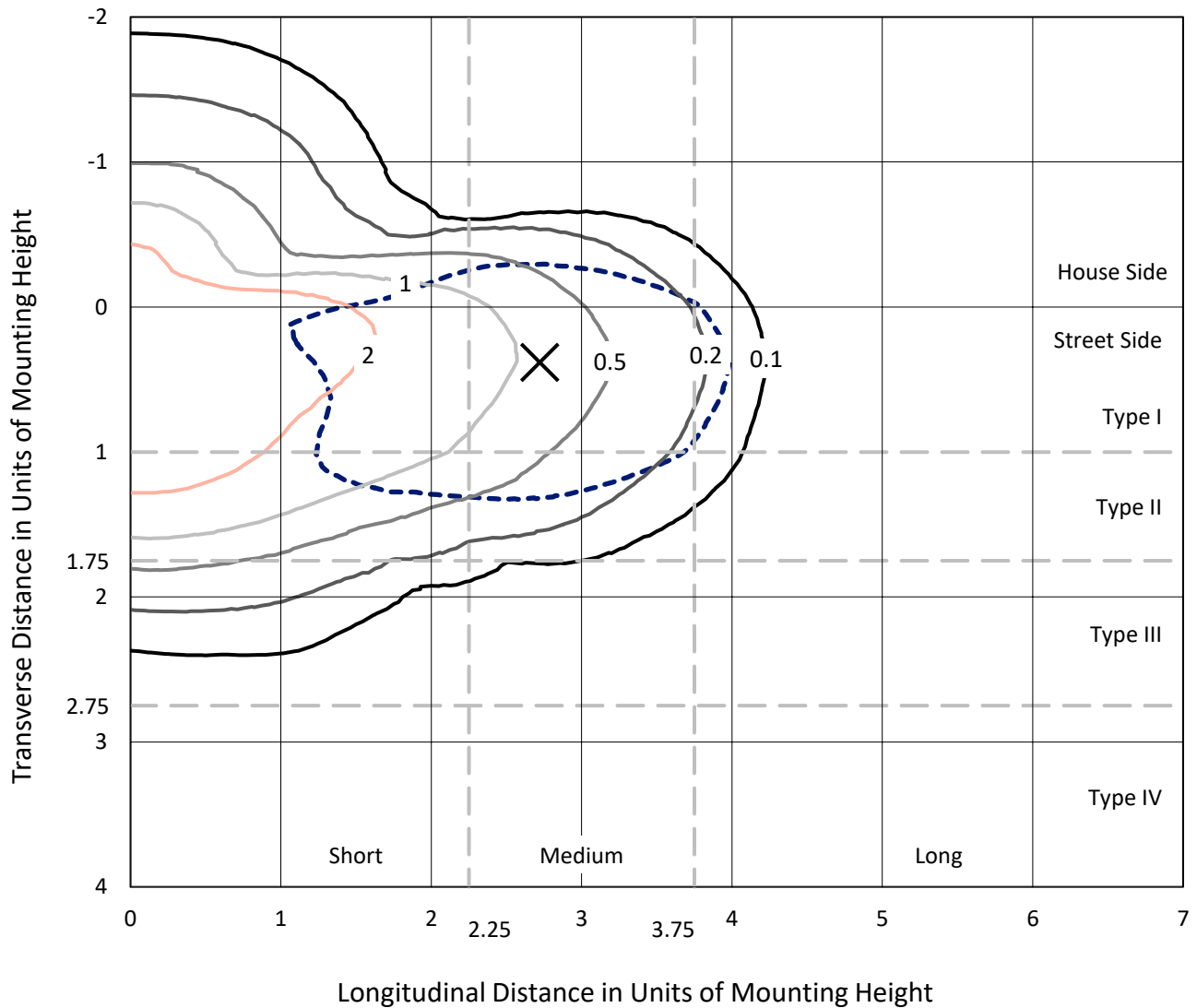
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

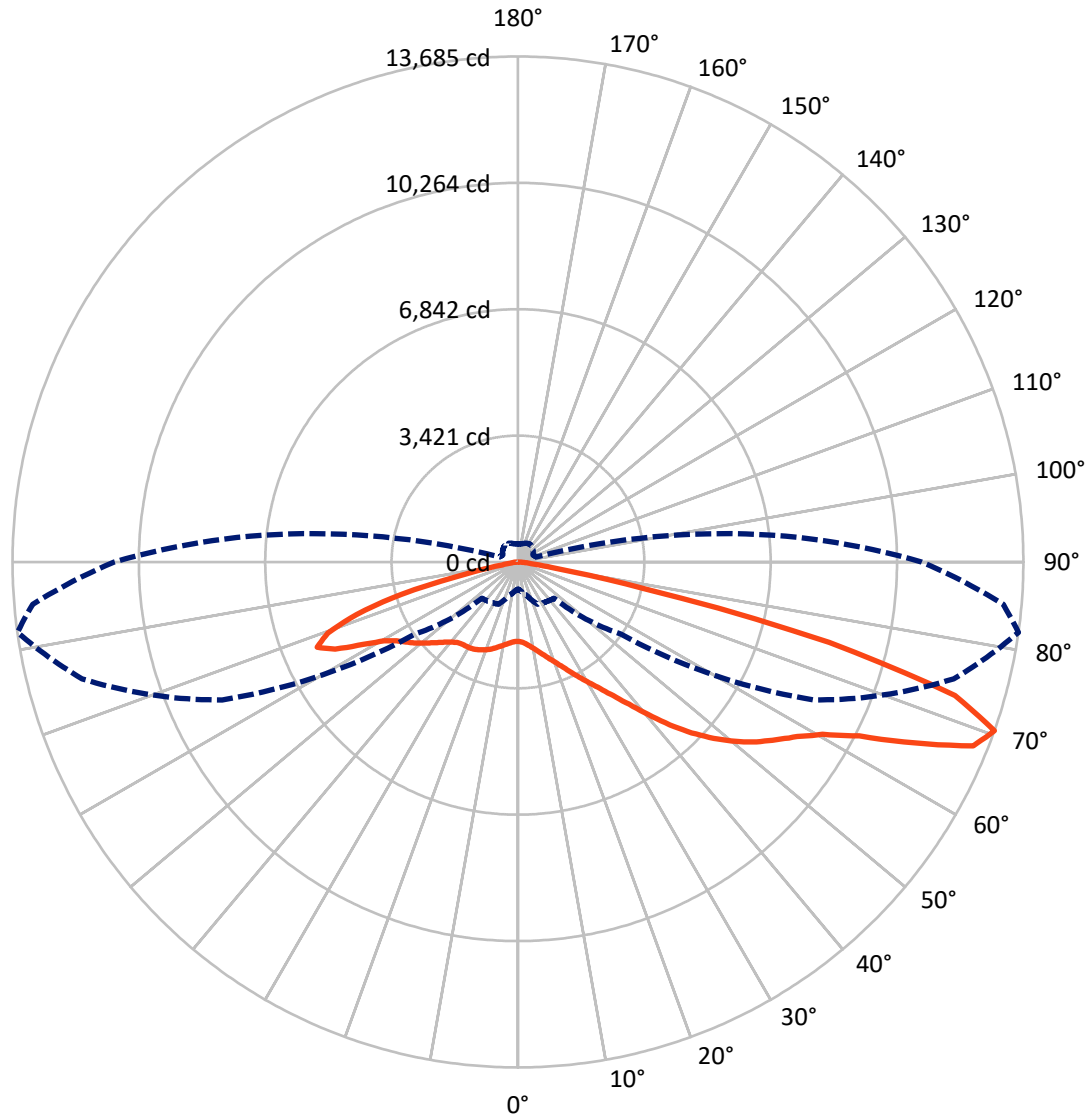
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3610.1	0.0	3610.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	11033.9	0.0	11033.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	14644.0	0.0	14644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	1.4
10°-20°	582.4	4.0
20°-30°	974.3	6.7
30°-40°	1522.1	10.4
40°-50°	2424.2	16.6
50°-60°	3373.5	23.0
60°-70°	3528.9	24.1
70°-80°	1844.4	12.6
80°-90°	191.5	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°	14644.0	100.0
0°-180°	14644.0	100.0

Coefficient of Utilization



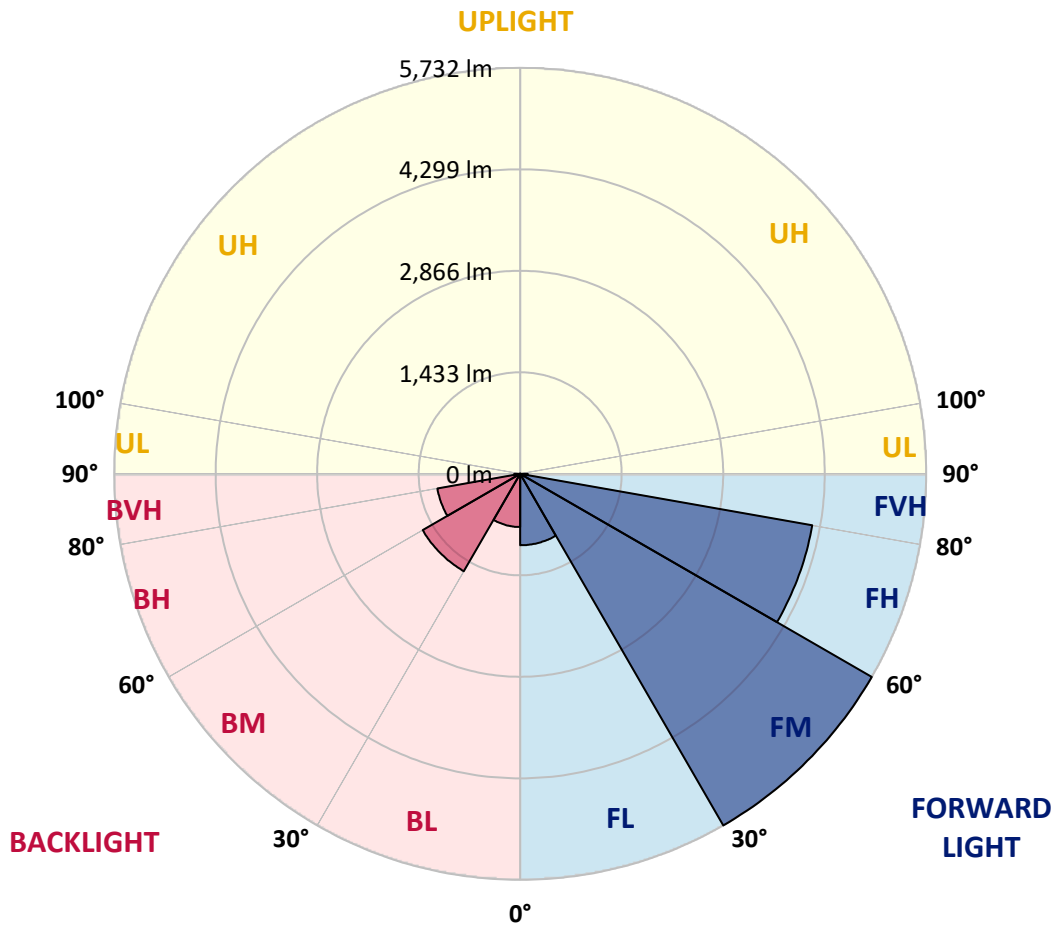
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.4	6.9			
FM (30°-60°)	5731.5	39.1			
FH (60°-80°)	4186.8	28.6			G2/5000
FVH (80°-90°)	107.2	0.7			G2/225
BL (0°-30°)	751.0	5.1	B2/1000		
BM (30°-60°)	1588.3	10.8	B2/2500		
BH (60°-80°)	1186.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	84.3	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°	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0
2.5°	2198.3	2210.7	2206.8	2202.9	2202.9	2197.5	2196.7	2189.0	2182.7	2172.6	2170.3
5°	2226.3	2239.5	2237.9	2241.0	2251.1	2253.4	2255.8	2251.1	2238.7	2226.3	2220.8
7.5°	2201.4	2216.2	2220.8	2239.5	2270.5	2298.5	2319.5	2328.0	2316.4	2298.5	2290.0
10°	2117.5	2133.8	2150.1	2194.4	2249.6	2315.6	2371.6	2405.0	2402.6	2385.5	2370.8
12.5°	1947.3	1964.4	1999.4	2085.6	2186.6	2303.2	2407.3	2477.2	2501.3	2488.9	2463.3
15°	1811.3	1826.1	1852.5	1941.1	2072.4	2249.6	2420.5	2556.5	2617.9	2610.9	2579.8
17.5°	1807.4	1813.6	1830.0	1871.9	1972.9	2165.6	2406.5	2634.2	2751.5	2750.8	2711.9
20°	1875.8	1878.1	1887.5	1896.0	1953.5	2101.9	2370.8	2698.7	2901.5	2901.5	2859.5
22.5°	1970.6	1969.0	1978.4	1970.6	1998.6	2096.5	2348.2	2755.4	3068.6	3081.0	3028.2
25°	2112.8	2105.0	2102.7	2084.8	2090.3	2147.0	2373.1	2819.9	3266.7	3292.4	3226.3
27.5°	2302.4	2290.0	2281.4	2240.2	2226.3	2251.1	2449.3	2897.6	3487.4	3531.7	3447.8
30°	2549.5	2527.0	2514.5	2443.1	2392.5	2396.4	2564.3	3001.0	3718.2	3789.7	3683.2
32.5°	2886.7	2851.8	2818.4	2701.0	2608.6	2578.3	2712.7	3144.0	3968.4	4082.6	3945.9
35°	3264.4	3236.4	3200.7	3019.6	2877.4	2807.5	2913.2	3343.7	4261.4	4442.4	4264.5
37.5°	3628.1	3604.0	3621.1	3377.1	3193.7	3091.9	3175.8	3611.7	4622.7	4890.0	4663.9
40°	4004.1	3985.5	3987.8	3754.7	3541.0	3426.8	3494.4	3948.2	5036.8	5422.3	5144.1
42.5°	4412.9	4398.9	4352.3	4145.6	3905.5	3799.0	3861.2	4336.7	5481.3	6028.4	5670.9
45°	4870.6	4862.0	4818.5	4581.5	4306.4	4186.8	4270.7	4765.7	5928.1	6598.7	6200.1
47.5°	5266.1	5273.1	5267.6	5067.9	4782.8	4607.1	4707.4	5213.2	6343.8	7134.9	6707.5
50°	5456.5	5493.0	5546.6	5484.4	5307.3	5128.5	5148.0	5645.3	6740.1	7637.6	7193.9
52.5°	5357.0	5426.2	5572.2	5671.7	5740.1	5702.8	5650.7	6074.2	7113.1	8091.4	7654.0
55°	4986.3	5083.5	5325.9	5566.0	5914.9	6186.1	6254.5	6549.8	7476.8	8490.8	8089.1
57.5°	4311.1	4468.8	4686.4	5172.1	5759.5	6420.0	6958.5	7209.5	7862.2	8917.4	8544.5
60°	3153.3	3364.6	3635.0	4357.7	5215.6	6294.9	7557.6	8222.8	8410.0	9469.9	9137.3
62.5°	2018.0	2148.5	2397.2	3077.9	4064.0	5653.8	7741.0	9489.4	9338.6	10376.0	10026.3
65°	1381.6	1465.5	1693.2	2075.5	2627.2	4208.5	7249.9	10438.9	10813.4	11812.0	11546.2
67.5°	1004.0	1067.7	1261.9	1596.8	1711.8	2490.5	5625.9	10395.4	12247.1	13291.5	12878.1
70°	732.0	777.1	940.2	1261.9	1317.1	1385.5	3408.1	8836.6	12216.0	13684.7	13189.7
72.5°	542.4	573.5	683.0	979.1	1066.1	935.6	1687.0	6422.3	10497.2	12377.7	11980.6
75°	392.4	415.7	496.5	749.1	853.2	712.6	841.5	3753.2	7322.2	8706.9	8776.8
77.5°	299.9	317.8	370.7	548.6	683.0	534.6	522.2	1726.6	3471.9	3489.0	3684.8
80°	240.9	252.5	281.3	386.2	523.7	400.2	340.3	697.0	1097.2	928.6	974.4
82.5°	177.2	196.6	237.8	271.2	374.5	275.9	207.5	352.0	417.3	359.0	362.1
85°	101.0	114.2	143.8	194.3	239.3	168.6	118.9	156.2	194.3	159.3	142.2
87.5°	35.7	46.6	50.5	76.2	104.1	69.9	45.8	45.1	63.7	47.4	39.6
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°	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0	2147.0
2.5°	2162.5	2158.6	2143.1	2122.1	2100.4	2079.4	2072.4	2057.6	2047.5	2042.1	2048.3
5°	2206.0	2193.6	2157.1	2110.5	2061.5	2008.7	1971.4	1937.2	1912.3	1889.0	1898.3
7.5°	2268.2	2246.5	2183.5	2101.9	2014.9	1927.1	1861.8	1812.1	1778.7	1756.9	1761.6
10°	2340.5	2307.1	2210.7	2088.7	1954.3	1828.4	1751.5	1708.7	1687.8	1676.1	1679.2
12.5°	2423.6	2376.2	2238.7	2058.4	1861.8	1718.1	1665.2	1652.8	1653.6	1654.3	1655.9
15°	2526.2	2460.1	2261.2	1992.4	1741.4	1633.4	1624.0	1644.2	1665.2	1675.3	1674.5
17.5°	2642.0	2548.7	2265.1	1883.6	1623.3	1579.0	1608.5	1652.0	1683.9	1697.9	1701.0
20°	2766.3	2638.9	2237.1	1729.7	1526.1	1534.7	1587.5	1643.5	1678.4	1696.3	1701.0
22.5°	2908.5	2735.2	2170.3	1568.1	1446.9	1486.5	1548.7	1603.1	1639.6	1657.5	1662.1
25°	3070.9	2843.2	2065.4	1432.1	1378.5	1432.1	1494.3	1539.3	1568.9	1585.2	1589.8
27.5°	3251.2	2955.9	1925.5	1324.1	1318.7	1376.2	1427.4	1462.4	1478.0	1490.4	1495.0
30°	3432.2	3058.5	1756.1	1242.5	1266.6	1321.0	1357.5	1373.1	1377.7	1380.0	1385.5
32.5°	3628.1	3147.1	1578.2	1174.9	1216.9	1267.4	1289.1	1296.1	1274.4	1259.6	1264.3
35°	3865.1	3241.9	1404.1	1121.3	1167.9	1211.4	1218.4	1212.2	1186.6	1156.3	1157.8
37.5°	4158.0	3360.0	1265.0	1083.2	1122.1	1150.8	1142.3	1140.7	1143.0	1107.3	1109.6
40°	4517.0	3513.8	1163.2	1053.7	1084.8	1091.0	1066.9	1080.1	1091.8	1037.4	1038.9
42.5°	4915.6	3699.5	1098.8	1033.5	1053.7	1038.9	1001.6	1016.4	1014.8	943.3	942.6
45°	5322.0	3901.6	1076.2	1018.7	1024.9	995.4	954.2	958.1	925.5	861.0	863.3
47.5°	5726.1	4118.4	1090.2	1006.3	989.2	955.8	923.9	906.8	858.6	810.5	810.5
50°	6122.4	4346.0	1141.5	981.4	940.2	920.8	897.5	867.2	815.9	774.7	771.6
52.5°	6489.9	4575.3	1199.0	940.2	878.8	890.5	875.7	840.8	790.3	748.3	749.1
55°	6838.1	4804.5	1221.5	883.5	821.3	864.1	855.5	791.0	730.4	696.2	693.1
57.5°	7217.3	5080.4	1196.7	811.2	774.7	833.8	801.1	729.7	694.7	669.0	666.7
60°	7742.5	5513.2	1143.0	721.9	730.4	788.7	732.8	703.2	665.2	636.4	634.9
62.5°	8615.2	6320.5	1056.8	633.3	678.4	721.9	700.1	670.6	631.7	603.8	603.8
65°	9905.1	7442.6	894.4	564.1	620.1	656.6	665.2	635.6	595.2	565.7	567.2
67.5°	10992.9	8146.6	676.8	506.6	560.3	603.8	627.9	599.1	556.4	527.6	528.4
70°	10933.1	7635.3	516.7	449.9	507.4	551.7	582.8	560.3	514.4	487.2	489.5
72.5°	9710.8	6387.4	418.1	392.4	453.8	497.3	534.6	517.5	470.9	444.5	444.5
75°	7134.1	4534.1	334.1	334.1	387.0	440.6	481.8	470.9	428.2	409.5	404.1
77.5°	3007.2	1902.2	261.9	277.4	321.7	378.4	429.7	433.6	396.3	419.6	380.8
80°	799.6	524.5	199.7	218.4	252.5	312.4	373.8	372.2	331.8	310.0	288.3
82.5°	304.6	206.7	142.2	153.9	182.6	239.3	296.1	305.4	265.0	229.2	229.2
85°	117.3	88.6	87.8	92.5	106.5	158.5	223.8	231.6	199.7	169.4	174.8
87.5°	30.3	26.4	32.6	31.1	49.0	84.7	128.2	132.9	122.0	70.7	101.0
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)