

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: P960484

Luminaire Tested: **NVN-SB1C-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1C-827-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

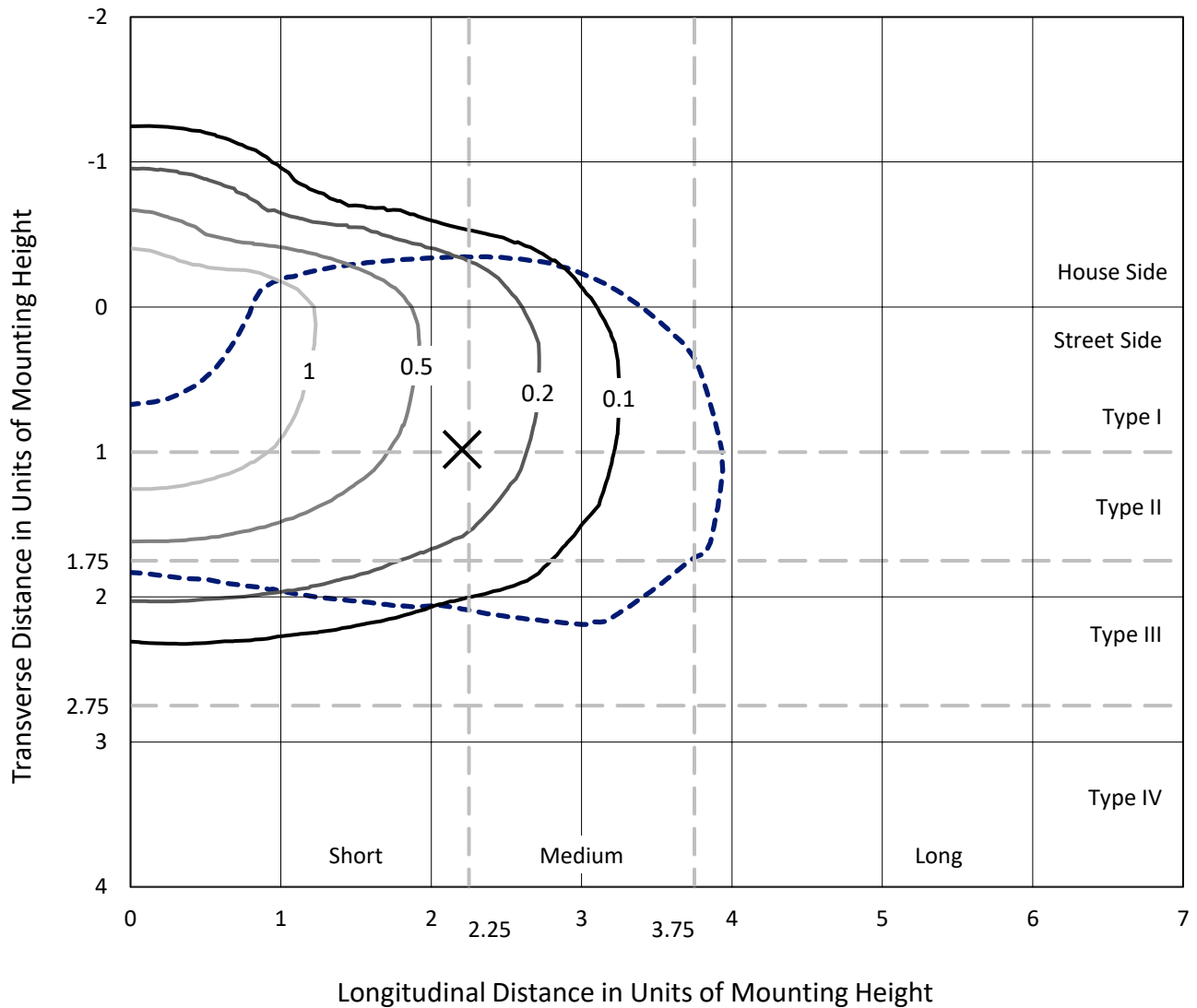
Lumens per Lamp: N/A  
Luminaire Lumens: 6682 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

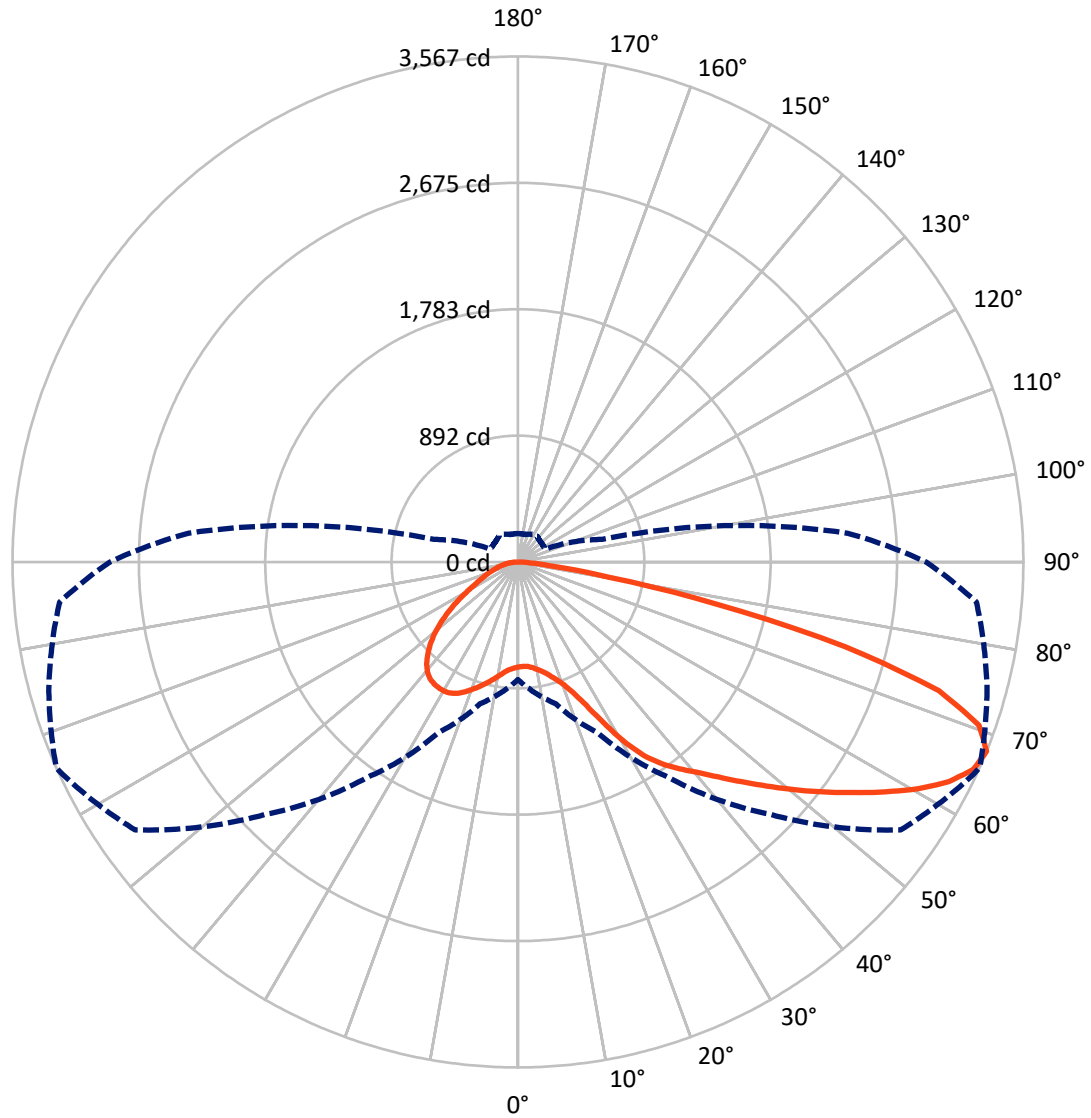
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1661.5	0.0	1661.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	5020.5	0.0	5020.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	6682.0	0.0	6682.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.5	1.1
10°-20°	242.8	3.6
20°-30°	467.9	7.0
30°-40°	820.4	12.3
40°-50°	1219.7	18.3
50°-60°	1546.1	23.1
60°-70°	1512.8	22.6
70°-80°	721.6	10.8
80°-90°	77.1	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°	6682.0	100.0
0°-180°	6682.0	100.0

**Coefficient of Utilization**



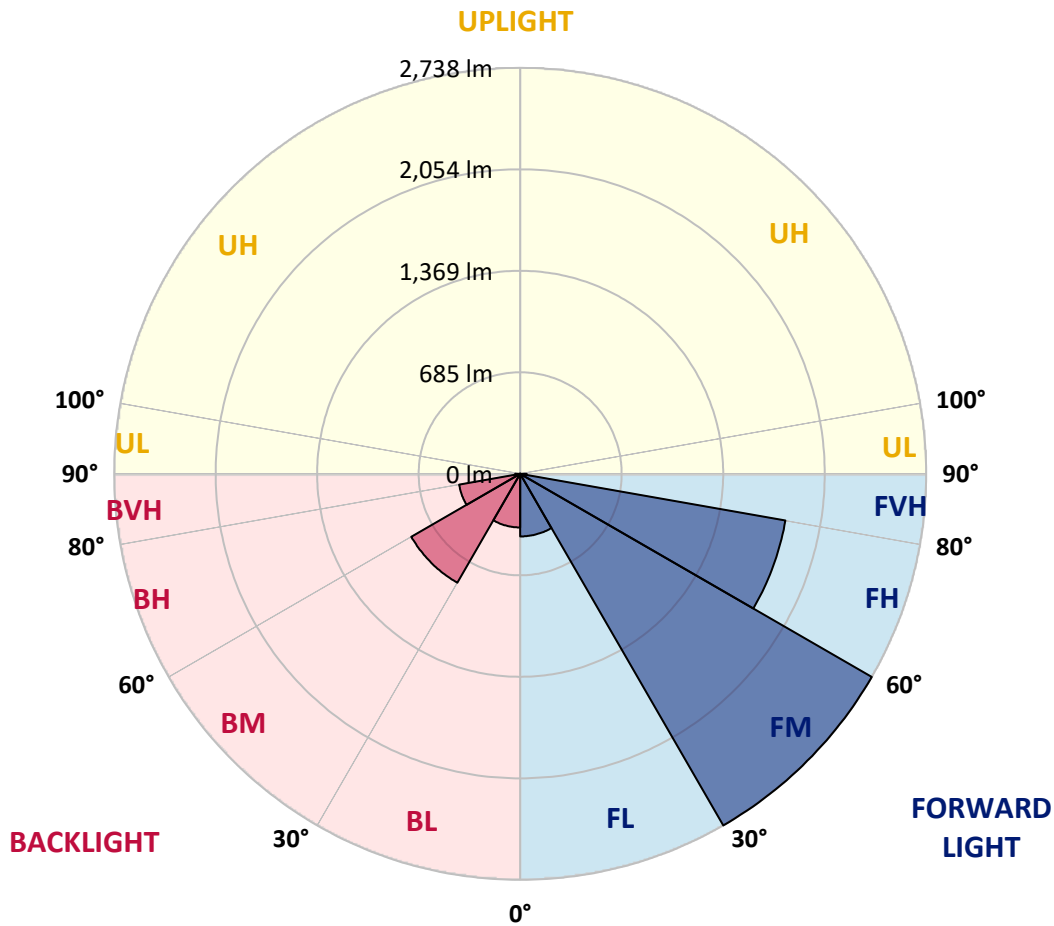
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.2	6.3			
FM	(30°-60°)	2738.2	41.0			
FH	(60°-80°)	1816.3	27.2			G2/5000
FVH	(80°-90°)	43.7	0.7			G1/100
BL	(0°-30°)	361.9	5.4	B1/500		
BM	(30°-60°)	848.0	12.7	B1/1000		
BH	(60°-80°)	418.1	6.3	B1/500		G1/500
BVH	(80°-90°)	33.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	733.4	737.6	736.6	734.8	734.4	735.1	736.2	737.3	736.9	738.6	741.5
5°	731.3	735.5	735.1	735.1	736.6	739.3	741.1	742.9	741.1	743.2	747.1
7.5°	732.7	735.8	737.3	738.6	742.2	747.4	751.6	755.5	753.4	755.8	760.8
10°	750.6	753.1	754.5	754.5	757.0	762.9	767.1	774.1	772.3	776.2	782.6
12.5°	783.2	785.7	785.7	784.3	786.1	790.0	791.3	799.1	795.9	802.2	808.5
15°	823.3	828.2	824.3	821.8	822.6	826.5	826.0	832.1	828.9	834.1	839.8
17.5°	867.5	873.8	867.5	867.2	865.7	869.9	870.3	875.6	869.9	873.8	877.7
20°	919.8	928.5	923.3	925.1	921.9	923.6	925.5	933.2	924.3	927.2	926.1
22.5°	993.5	1004.1	998.5	1005.1	1003.1	1001.6	1001.2	1015.0	1001.2	1002.3	992.1
25°	1101.0	1113.6	1103.8	1112.9	1112.9	1117.5	1122.8	1140.3	1117.5	1110.8	1084.4
27.5°	1259.6	1272.3	1253.0	1258.6	1256.9	1268.1	1262.5	1306.0	1281.5	1270.6	1217.5
30°	1450.7	1473.1	1436.6	1435.2	1433.5	1451.3	1459.4	1488.2	1463.3	1452.4	1388.5
32.5°	1657.1	1680.6	1637.0	1624.4	1617.8	1628.6	1622.0	1645.1	1627.9	1611.1	1532.1
35°	1875.4	1898.6	1857.2	1832.6	1805.9	1783.1	1759.2	1765.3	1749.1	1723.4	1641.6
37.5°	2081.9	2124.3	2080.4	2054.1	2005.0	1960.4	1893.7	1866.0	1850.8	1827.4	1744.9
40°	2292.2	2316.4	2283.1	2260.5	2207.2	2137.3	2030.6	1972.0	1951.6	1928.8	1858.9
42.5°	2447.0	2470.1	2452.2	2436.8	2395.0	2313.9	2176.0	2102.6	2073.1	2047.4	1988.1
45°	2569.9	2587.1	2575.8	2581.5	2563.5	2484.9	2326.5	2242.7	2212.2	2180.9	2134.2
47.5°	2619.4	2637.6	2655.6	2688.9	2719.4	2661.5	2488.4	2394.3	2362.0	2330.1	2284.1
50°	2613.8	2632.4	2684.3	2755.2	2850.0	2830.7	2659.1	2555.8	2526.0	2489.5	2447.0
52.5°	2568.9	2589.9	2656.6	2774.6	2925.6	2957.4	2832.8	2722.6	2694.5	2651.0	2608.5
55°	2450.9	2463.5	2563.5	2730.7	2943.4	3045.9	3003.0	2900.2	2872.2	2811.4	2765.0
57.5°	2232.1	2250.4	2396.0	2612.3	2898.5	3106.0	3152.7	3087.0	3059.9	2972.6	2924.1
60°	1946.7	1975.9	2142.7	2413.7	2784.0	3105.6	3288.5	3270.6	3248.1	3131.3	3080.6
62.5°	1623.7	1657.4	1817.8	2132.8	2583.9	3017.5	3373.5	3424.4	3412.8	3277.6	3213.1
65°	1247.0	1270.2	1430.0	1769.5	2272.5	2828.3	3383.3	3529.4	3531.4	3389.0	3282.2
67.5°	830.2	897.0	1035.7	1327.8	1855.5	2518.9	3296.9	3546.6	3566.9	3427.2	3247.4
70°	405.2	492.9	628.7	862.9	1327.8	2044.7	3071.2	3405.5	3450.8	3315.6	3040.4
72.5°	168.2	196.6	270.7	425.9	762.2	1379.8	2617.6	3022.7	3106.7	2937.8	2556.1
75°	113.4	122.9	154.8	218.3	347.2	680.4	1887.7	2253.9	2389.1	2218.8	1813.6
77.5°	87.4	93.4	112.6	152.7	206.4	257.4	1010.4	1358.3	1428.1	1322.1	943.7
80°	68.8	73.4	84.3	111.3	146.4	137.7	344.4	615.4	655.8	550.1	303.3
82.5°	59.7	61.4	60.4	75.4	97.3	80.4	113.1	227.1	250.7	181.8	99.0
85°	43.2	48.1	50.2	46.7	51.6	40.7	46.3	80.4	88.5	79.0	55.9
87.5°	17.5	25.9	32.0	30.2	19.0	11.6	14.3	23.5	27.1	29.5	18.2
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°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	741.8	744.3	746.0	748.1	749.6	751.6	755.8	758.3	758.7	760.4	760.0
5°	748.5	752.0	755.8	761.5	767.8	773.1	781.2	786.8	788.8	790.6	790.3
7.5°	762.9	767.8	774.8	784.6	793.8	800.8	810.7	817.3	824.0	826.5	826.8
10°	784.3	791.3	801.6	814.9	824.7	833.8	844.0	849.6	856.3	859.1	860.5
12.5°	811.0	818.4	831.7	850.3	859.5	865.7	869.3	867.9	869.3	871.8	872.4
15°	841.5	849.6	864.7	884.7	891.0	885.4	877.7	870.6	869.6	870.3	872.8
17.5°	877.7	883.7	901.2	918.1	913.5	890.3	873.5	862.2	856.6	854.8	857.3
20°	928.2	928.2	942.6	953.1	922.6	883.3	857.0	838.8	827.2	822.3	821.1
22.5°	989.6	984.1	993.2	985.8	920.9	863.7	827.2	795.5	778.0	771.0	769.9
25°	1067.6	1061.0	1058.5	1012.8	908.3	832.4	773.1	734.8	719.3	715.4	716.2
27.5°	1185.2	1168.4	1136.4	1027.6	885.1	783.2	709.9	674.4	665.6	665.9	667.1
30°	1341.8	1308.1	1229.8	1030.0	847.2	713.7	645.2	620.0	615.8	617.6	623.5
32.5°	1486.8	1454.9	1325.3	1018.8	788.8	645.6	587.3	570.5	564.2	566.3	569.1
35°	1600.5	1591.8	1413.8	1003.1	717.3	581.7	535.4	521.0	508.7	505.9	508.0
37.5°	1708.0	1704.5	1480.1	980.9	646.4	536.5	493.6	474.7	456.7	446.9	447.3
40°	1825.9	1822.4	1523.7	946.9	583.5	497.1	456.0	431.1	409.0	391.1	392.9
42.5°	1958.7	1938.0	1544.4	898.0	530.1	463.8	425.5	391.8	362.6	346.1	347.2
45°	2103.6	2057.0	1544.1	835.9	485.2	433.3	392.9	345.1	318.1	302.6	302.0
47.5°	2257.5	2170.7	1525.1	767.1	441.7	399.5	342.2	305.8	287.9	278.4	276.3
50°	2416.1	2277.0	1492.8	688.1	397.1	361.2	310.7	285.8	272.0	263.3	260.1
52.5°	2565.3	2373.6	1453.8	598.6	351.8	324.0	296.6	277.4	262.9	253.2	248.9
55°	2704.0	2456.8	1398.7	507.0	314.9	299.1	290.0	273.9	257.4	245.8	241.2
57.5°	2827.3	2510.8	1303.5	421.0	288.5	281.9	283.0	267.8	248.9	239.1	232.8
60°	2929.8	2550.6	1162.8	341.2	267.2	265.1	272.0	256.7	234.5	223.2	218.3
62.5°	2991.2	2549.9	990.0	279.4	248.9	249.6	257.7	242.6	220.2	209.6	206.4
65°	2985.9	2487.4	800.4	239.1	231.3	232.1	242.6	227.1	208.2	201.8	201.5
67.5°	2880.2	2335.0	614.1	212.8	212.1	215.2	227.4	216.6	200.8	200.1	201.2
70°	2594.1	2018.6	442.4	191.7	192.1	196.6	212.8	209.9	196.9	198.3	198.0
72.5°	2080.1	1539.1	297.0	169.5	169.9	177.3	198.7	204.7	193.1	211.7	214.5
75°	1385.4	959.8	191.0	146.1	146.4	155.9	186.4	194.5	182.6	210.9	212.8
77.5°	665.6	431.4	138.3	122.9	122.9	131.6	161.1	174.1	155.5	164.0	150.3
80°	229.9	162.2	108.9	99.0	96.9	102.9	135.9	151.0	134.1	123.6	115.8
82.5°	90.6	84.3	87.4	76.9	69.9	73.7	105.7	124.6	98.6	89.2	88.9
85°	52.0	54.7	61.8	50.9	40.4	45.3	77.6	89.5	74.4	65.6	67.0
87.5°	14.0	19.3	28.4	26.3	18.2	19.3	36.9	49.5	42.8	33.0	34.0
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)