

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: P881937

Luminaire Tested: **NVN-SB1C-827-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881937  
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-SB1C-827-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

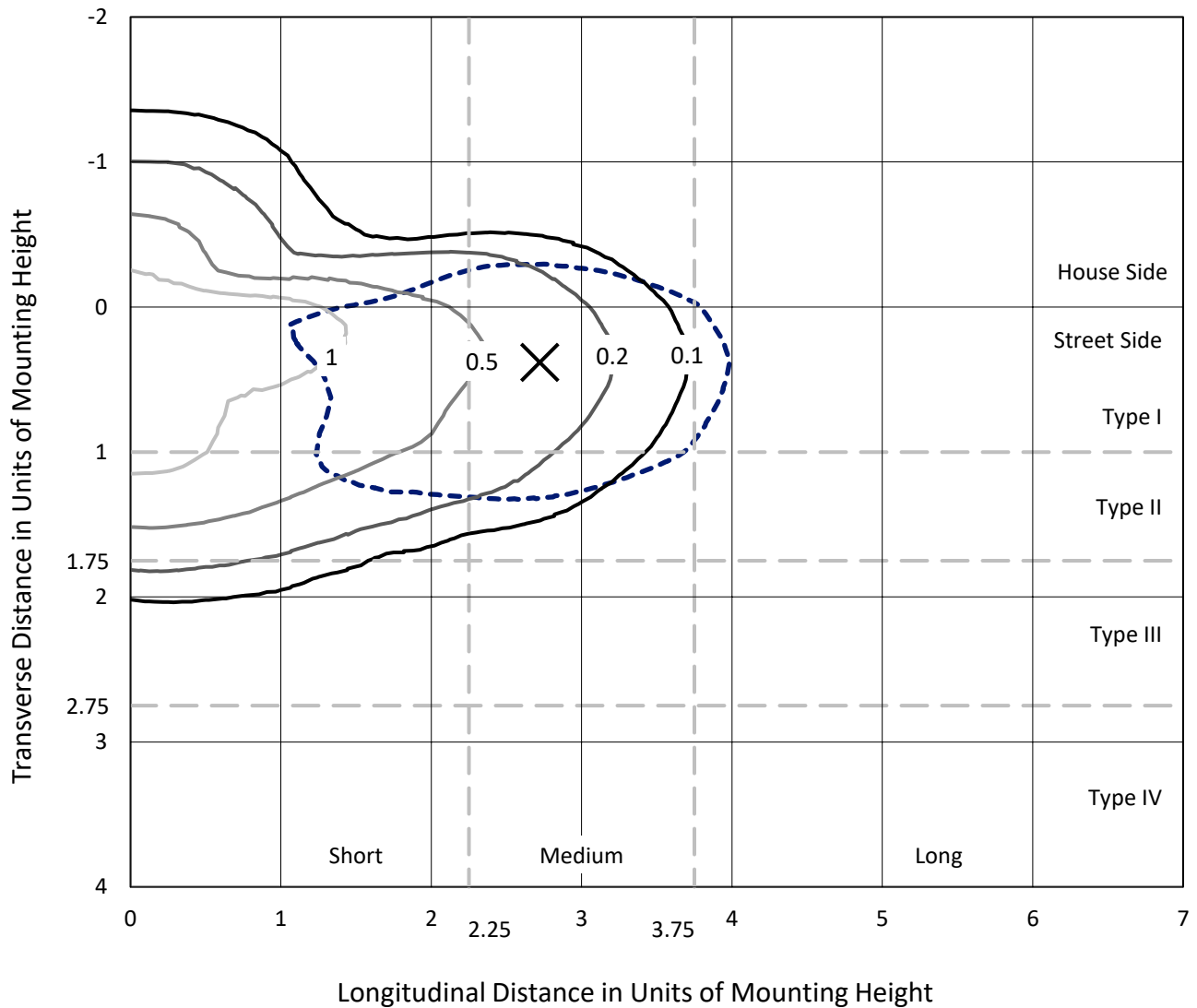
Lumens per Lamp: N/A  
Luminaire Lumens: 6034 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.437  
Voltage Rise (V): NR  
Power Factor: 0.993  
Total Harmonic Distortion (THDi): 9.314  
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

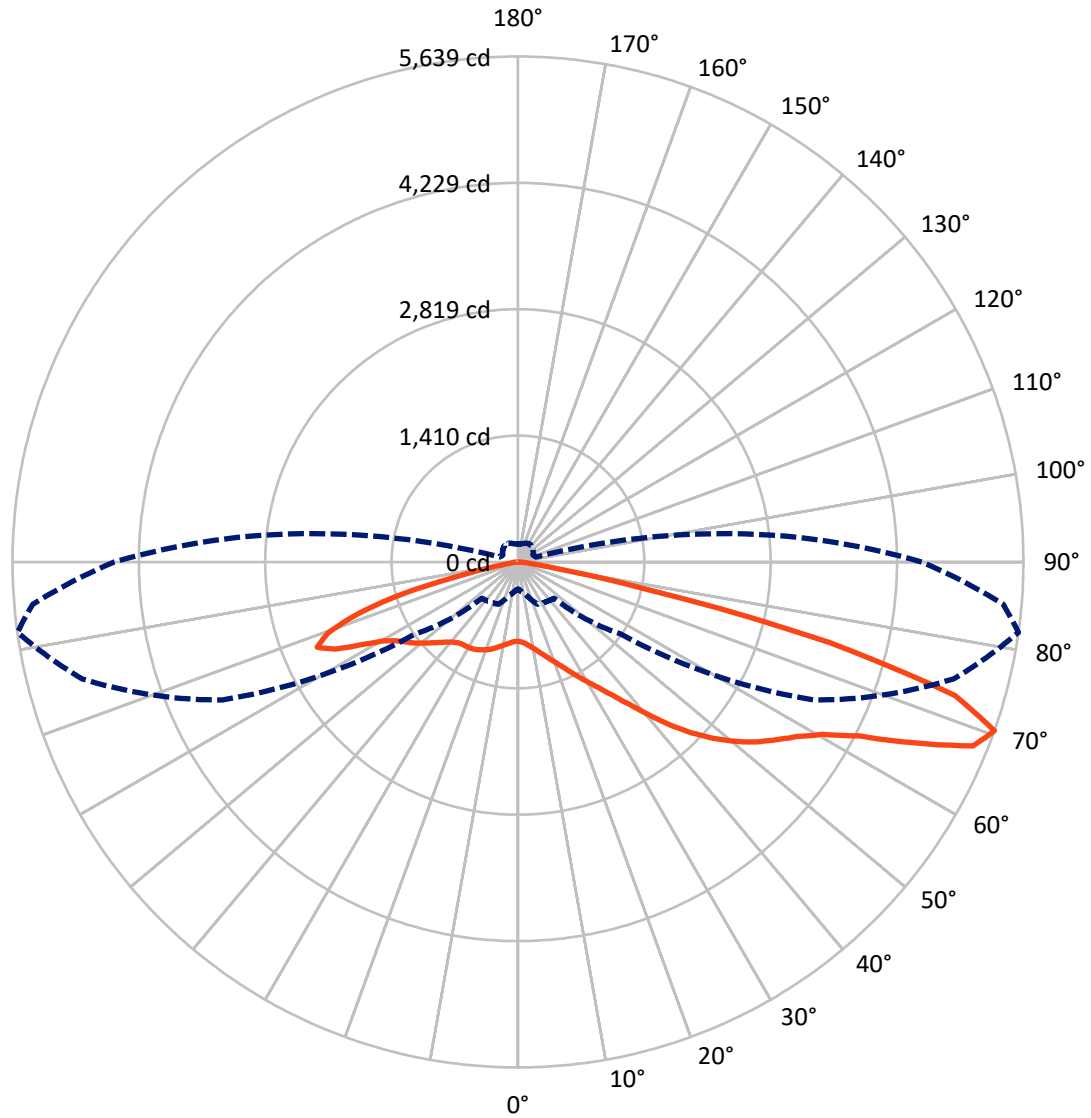
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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
<b>House Side</b>	Lumens	1487.5	0.0	1487.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	4546.5	0.0	4546.5
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	6034.0	0.0	6034.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.5	1.4
10°-20°	240.0	4.0
20°-30°	401.5	6.7
30°-40°	627.2	10.4
40°-50°	998.9	16.6
50°-60°	1390.0	23.0
60°-70°	1454.1	24.1
70°-80°	760.0	12.6
80°-90°	78.9	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°	6034.0	100.0
0°-180°	6034.0	100.0

**Coefficient of Utilization**

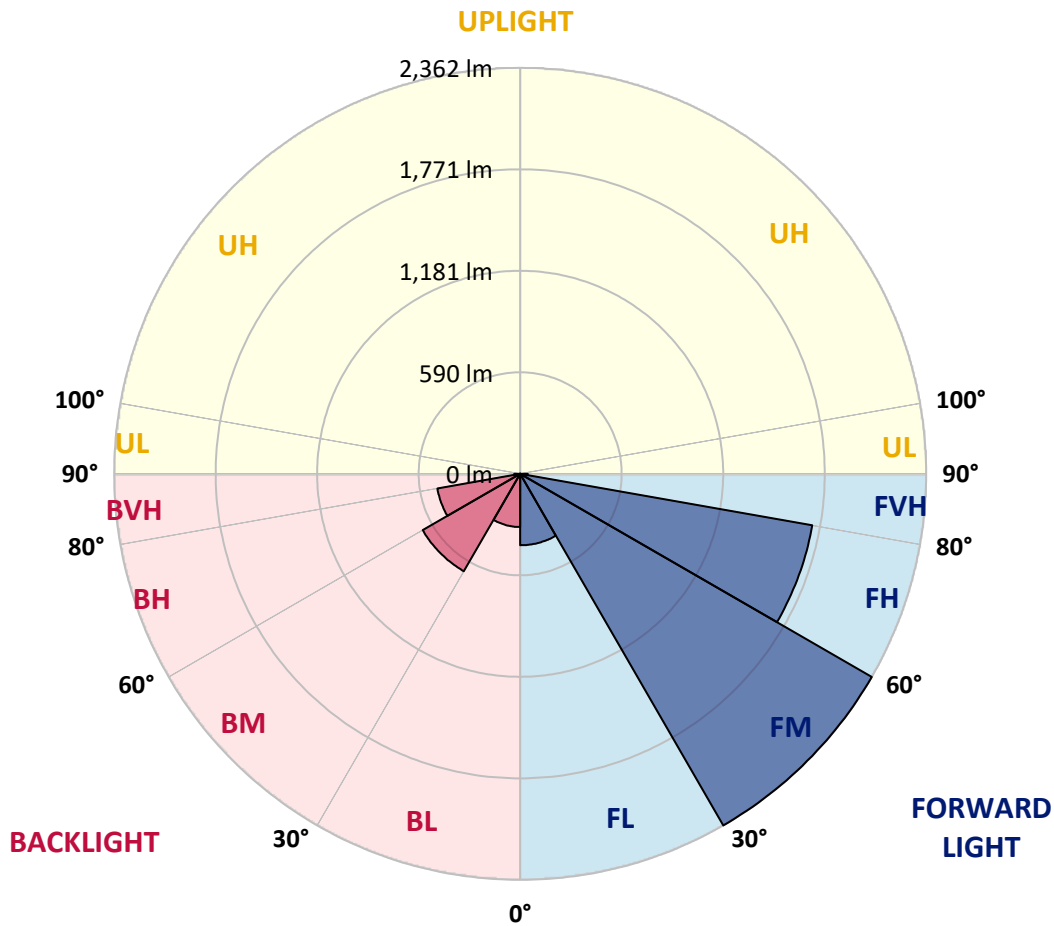


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.5	6.9			
FM (30°-60°)	2361.6	39.1			
FH (60°-80°)	1725.1	28.6			G1/1800
FVH (80°-90°)	44.2	0.7			G1/100
BL (0°-30°)	309.5	5.1	B1/500		
BM (30°-60°)	654.5	10.8	B1/1000		
BH (60°-80°)	488.9	8.1	B1/500		G1/500
BVH (80°-90°)	34.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	905.8	910.9	909.3	907.7	907.7	905.5	905.2	901.9	899.4	895.2	894.3
5°	917.3	922.8	922.1	923.4	927.6	928.5	929.5	927.6	922.4	917.3	915.1
7.5°	907.1	913.2	915.1	922.8	935.6	947.1	955.7	959.3	954.5	947.1	943.6
10°	872.5	879.2	885.9	904.2	926.9	954.1	977.2	991.0	990.0	983.0	976.9
12.5°	802.4	809.4	823.8	859.4	901.0	949.0	991.9	1020.7	1030.7	1025.5	1015.0
15°	746.3	752.4	763.3	799.8	853.9	926.9	997.4	1053.4	1078.7	1075.8	1063.0
17.5°	744.7	747.3	754.0	771.3	812.9	892.3	991.6	1085.4	1133.8	1133.4	1117.4
20°	772.9	773.9	777.7	781.2	804.9	866.1	976.9	1112.0	1195.6	1195.6	1178.3
22.5°	812.0	811.3	815.2	812.0	823.5	863.8	967.6	1135.4	1264.4	1269.5	1247.7
25°	870.6	867.4	866.4	859.0	861.3	884.7	977.8	1161.9	1346.0	1356.6	1329.4
27.5°	948.7	943.6	940.1	923.1	917.3	927.6	1009.2	1194.0	1437.0	1455.2	1420.6
30°	1050.5	1041.2	1036.1	1006.6	985.8	987.4	1056.6	1236.5	1532.1	1561.5	1517.7
32.5°	1189.5	1175.1	1161.3	1112.9	1074.8	1062.4	1117.8	1295.5	1635.2	1682.2	1625.9
35°	1345.1	1333.6	1318.8	1244.2	1185.6	1156.8	1200.4	1377.7	1755.9	1830.5	1757.2
37.5°	1494.9	1485.0	1492.0	1391.5	1315.9	1274.0	1308.6	1488.2	1904.8	2014.9	1921.7
40°	1649.9	1642.2	1643.2	1547.1	1459.1	1412.0	1439.9	1626.8	2075.4	2234.2	2119.6
42.5°	1818.3	1812.5	1793.3	1708.2	1609.2	1565.4	1591.0	1786.9	2258.6	2484.0	2336.7
45°	2006.9	2003.4	1985.4	1887.8	1774.4	1725.1	1759.7	1963.7	2442.7	2719.0	2554.7
47.5°	2169.9	2172.7	2170.5	2088.2	1970.7	1898.4	1939.7	2148.1	2614.0	2939.9	2763.8
50°	2248.3	2263.4	2285.5	2259.8	2186.8	2113.2	2121.2	2326.1	2777.2	3147.1	2964.2
52.5°	2207.3	2235.8	2296.0	2337.0	2365.2	2349.8	2328.4	2502.9	2930.9	3334.0	3153.8
55°	2054.6	2094.6	2194.5	2293.5	2437.2	2549.0	2577.1	2698.8	3080.8	3498.6	3333.1
57.5°	1776.4	1841.4	1931.0	2131.1	2373.2	2645.3	2867.2	2970.6	3239.6	3674.4	3520.7
60°	1299.3	1386.4	1497.8	1795.6	2149.1	2593.8	3114.1	3388.2	3465.3	3902.0	3765.0
62.5°	831.5	885.3	987.8	1268.2	1674.5	2329.6	3189.6	3910.0	3847.9	4275.4	4131.3
65°	569.3	603.9	697.7	855.2	1082.5	1734.1	2987.3	4301.3	4455.6	4867.1	4757.6
67.5°	413.7	439.9	520.0	658.0	705.4	1026.2	2318.1	4283.4	5046.4	5476.7	5306.4
70°	301.6	320.2	387.4	520.0	542.7	570.9	1404.3	3641.1	5033.6	5638.7	5434.8
72.5°	223.5	236.3	281.4	403.4	439.3	385.5	695.1	2646.3	4325.3	5100.2	4936.5
75°	161.7	171.3	204.6	308.7	351.6	293.6	346.8	1546.5	3017.1	3587.6	3616.4
77.5°	123.6	131.0	152.7	226.0	281.4	220.3	215.2	711.4	1430.6	1437.6	1518.3
80°	99.3	104.1	115.9	159.1	215.8	164.9	140.2	287.2	452.1	382.6	401.5
82.5°	73.0	81.0	98.0	111.7	154.3	113.7	85.5	145.0	171.9	147.9	149.2
85°	41.6	47.1	59.2	80.0	98.6	69.5	49.0	64.4	80.0	65.6	58.6
87.5°	14.7	19.2	20.8	31.4	42.9	28.8	18.9	18.6	26.3	19.5	16.3
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°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	891.1	889.5	883.1	874.4	865.4	856.8	853.9	847.8	843.7	841.4	844.0
5°	909.0	903.9	888.8	869.6	849.4	827.7	812.3	798.2	788.0	778.4	782.2
7.5°	934.6	925.6	899.7	866.1	830.2	794.0	767.2	746.7	732.9	723.9	725.9
10°	964.4	950.6	910.9	860.6	805.3	753.4	721.7	704.1	695.4	690.6	691.9
12.5°	998.6	979.1	922.4	848.2	767.2	707.9	686.1	681.0	681.3	681.7	682.3
15°	1040.9	1013.7	931.7	820.9	717.5	673.0	669.2	677.5	686.1	690.3	690.0
17.5°	1088.6	1050.2	933.3	776.1	668.9	650.6	662.8	680.7	693.8	699.6	700.9
20°	1139.8	1087.3	921.8	712.7	628.8	632.4	654.1	677.2	691.6	699.0	700.9
22.5°	1198.4	1127.0	894.3	646.1	596.2	612.5	638.1	660.5	675.6	682.9	684.9
25°	1265.4	1171.5	851.0	590.1	568.0	590.1	615.7	634.3	646.4	653.2	655.1
27.5°	1339.6	1218.0	793.4	545.6	543.3	567.0	588.2	602.6	609.0	614.1	616.0
30°	1414.2	1260.2	723.6	512.0	521.9	544.3	559.4	565.8	567.7	568.6	570.9
32.5°	1494.9	1296.7	650.3	484.1	501.4	522.2	531.2	534.1	525.1	519.0	520.9
35°	1592.6	1335.8	578.6	462.0	481.2	499.2	502.0	499.5	488.9	476.4	477.1
37.5°	1713.3	1384.5	521.3	446.3	462.3	474.2	470.7	470.0	471.0	456.3	457.2
40°	1861.2	1447.9	479.3	434.2	447.0	449.5	439.6	445.1	449.9	427.4	428.1
42.5°	2025.5	1524.4	452.7	425.8	434.2	428.1	412.7	418.8	418.2	388.7	388.4
45°	2192.9	1607.6	443.5	419.8	422.3	410.2	393.2	394.8	381.3	354.8	355.7
47.5°	2359.4	1697.0	449.2	414.6	407.6	393.8	380.7	373.7	353.8	333.9	333.9
50°	2522.7	1790.8	470.3	404.4	387.4	379.4	369.8	357.3	336.2	319.2	317.9
52.5°	2674.2	1885.2	494.0	387.4	362.1	366.9	360.8	346.4	325.6	308.3	308.7
55°	2817.6	1979.7	503.3	364.0	338.4	356.0	352.5	325.9	301.0	286.9	285.6
57.5°	2973.8	2093.3	493.1	334.3	319.2	343.6	330.1	300.6	286.2	275.7	274.7
60°	3190.3	2271.7	471.0	297.4	301.0	325.0	301.9	289.8	274.1	262.2	261.6
62.5°	3549.8	2604.4	435.4	260.9	279.5	297.4	288.5	276.3	260.3	248.8	248.8
65°	4081.3	3066.7	368.5	232.5	255.5	270.6	274.1	261.9	245.3	233.1	233.7
67.5°	4529.6	3356.8	278.9	208.8	230.9	248.8	258.7	246.9	229.2	217.4	217.7
70°	4504.9	3146.1	212.9	185.4	209.1	227.3	240.1	230.9	212.0	200.8	201.7
72.5°	4001.3	2631.9	172.3	161.7	187.0	204.9	220.3	213.2	194.0	183.1	183.1
75°	2939.6	1868.3	137.7	137.7	159.5	181.5	198.5	194.0	176.4	168.7	166.5
77.5°	1239.1	783.8	107.9	114.3	132.6	155.9	177.1	178.7	163.3	172.9	156.9
80°	329.5	216.1	82.3	90.0	104.1	128.7	154.0	153.4	136.7	127.8	118.8
82.5°	125.5	85.2	58.6	63.4	75.2	98.6	122.0	125.8	109.2	94.5	94.5
85°	48.3	36.5	36.2	38.1	43.9	65.3	92.2	95.4	82.3	69.8	72.0
87.5°	12.5	10.9	13.4	12.8	20.2	34.9	52.8	54.8	50.3	29.1	41.6
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)