

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: P961007

Luminaire Tested: **NVN-SB1D-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8990.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

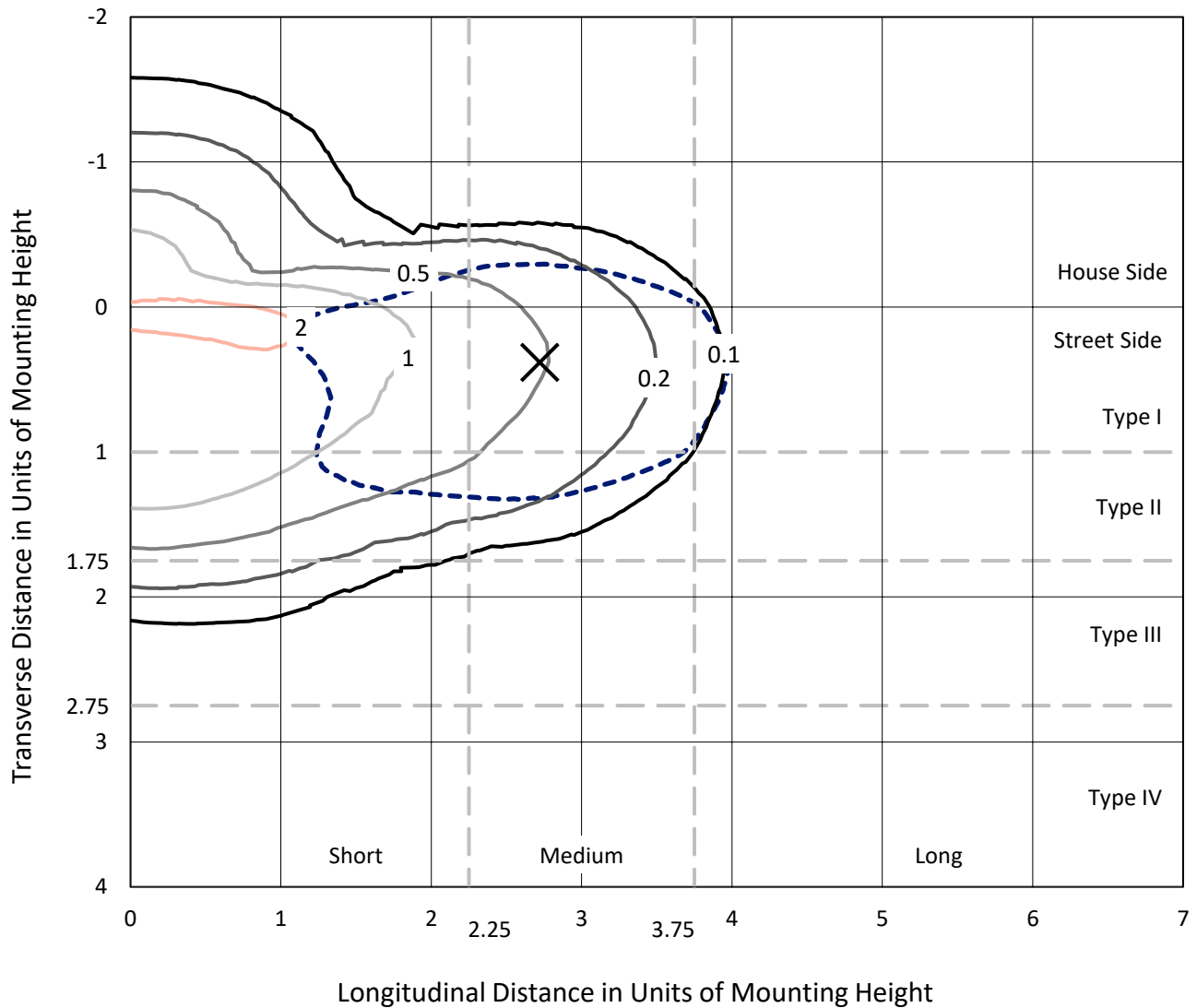
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

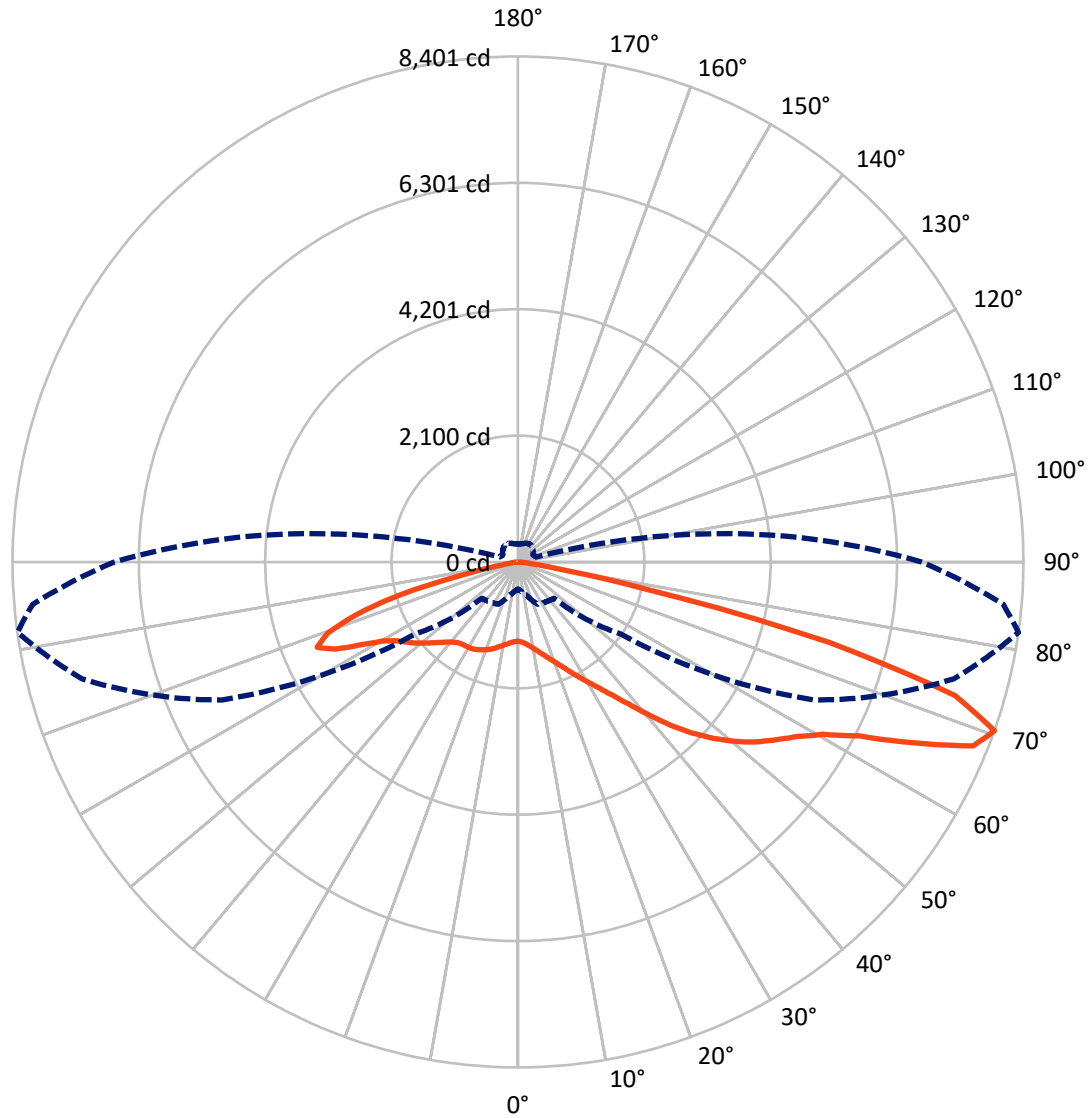
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	2216.3	0.0	2216.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6774.0	0.0	6774.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	8990.3	0.0	8990.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.4
10°-20°	357.6	4.0
20°-30°	598.2	6.7
30°-40°	934.5	10.4
40°-50°	1488.2	16.6
50°-60°	2071.1	23.0
60°-70°	2166.4	24.1
70°-80°	1132.3	12.6
80°-90°	117.6	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°	8990.3	100.0
0°-180°	8990.3	100.0

Coefficient of Utilization



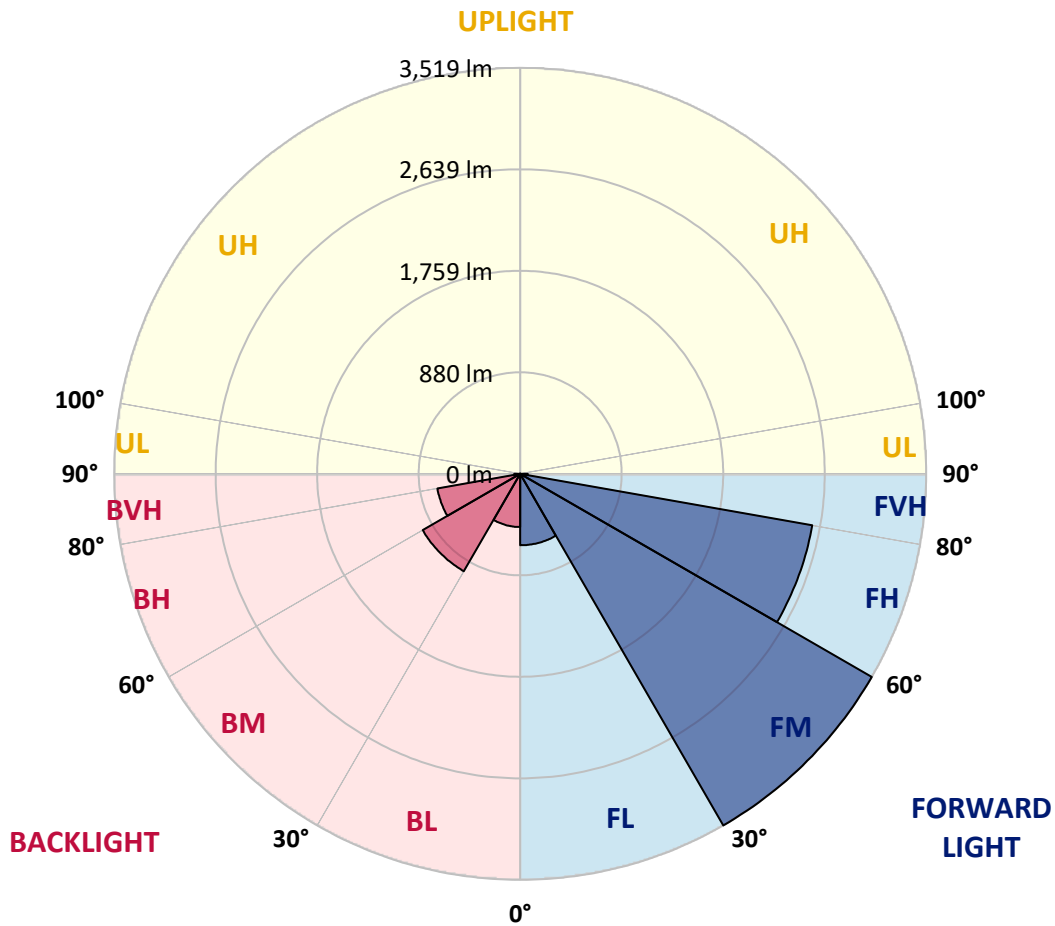
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.1	6.9			
FM (30°-60°)	3518.7	39.1			
FH (60°-80°)	2570.4	28.6			G2/5000
FVH (80°-90°)	65.8	0.7			G1/100
BL (0°-30°)	461.1	5.1	B1/500		
BM (30°-60°)	975.1	10.8	B1/1000		
BH (60°-80°)	728.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	51.8	0.6			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°	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0
2.5°	1349.6	1357.2	1354.8	1352.4	1352.4	1349.1	1348.6	1343.9	1340.0	1333.8	1332.4
5°	1366.7	1374.8	1373.9	1375.9	1382.0	1383.4	1384.9	1382.0	1374.4	1366.7	1363.5
7.5°	1351.5	1360.6	1363.5	1374.8	1393.9	1411.1	1424.0	1429.3	1422.1	1411.1	1405.9
10°	1300.0	1309.9	1320.0	1347.2	1381.1	1421.6	1455.9	1476.5	1475.1	1464.5	1455.5
12.5°	1195.5	1206.0	1227.4	1280.4	1342.4	1414.0	1477.9	1520.8	1535.7	1528.0	1512.3
15°	1112.0	1121.0	1137.2	1191.7	1272.3	1381.1	1486.0	1569.5	1607.2	1602.9	1583.8
17.5°	1109.7	1113.5	1123.4	1149.2	1211.2	1329.5	1477.4	1617.2	1689.2	1688.8	1664.9
20°	1151.6	1153.0	1158.8	1164.0	1199.4	1290.4	1455.5	1656.8	1781.3	1781.3	1755.5
22.5°	1209.8	1208.9	1214.5	1209.8	1226.9	1287.1	1441.7	1691.7	1883.8	1891.5	1859.0
25°	1297.1	1292.3	1290.9	1279.9	1283.3	1318.0	1456.9	1731.2	2005.5	2021.3	1980.7
27.5°	1413.5	1405.9	1400.7	1375.3	1366.7	1382.0	1503.7	1778.9	2141.0	2168.2	2116.6
30°	1565.2	1551.3	1543.8	1499.9	1468.8	1471.2	1574.3	1842.3	2282.7	2326.5	2261.3
32.5°	1772.2	1750.8	1730.3	1658.2	1601.5	1582.8	1665.4	1930.2	2436.3	2506.4	2422.5
35°	2004.1	1986.9	1964.9	1853.8	1766.5	1723.5	1788.4	2052.8	2616.1	2727.3	2618.1
37.5°	2227.3	2212.6	2223.0	2073.3	1960.7	1898.2	1949.7	2217.3	2837.9	3002.0	2863.2
40°	2458.3	2446.8	2448.2	2305.1	2173.9	2103.8	2145.3	2423.9	3092.2	3328.9	3158.0
42.5°	2709.2	2700.6	2672.0	2545.1	2397.7	2332.3	2370.4	2662.4	3365.1	3701.0	3481.5
45°	2990.1	2984.9	2958.1	2812.7	2643.8	2570.3	2621.8	2925.8	3639.4	4051.1	3806.3
47.5°	3233.0	3237.3	3233.9	3111.3	2936.2	2828.4	2890.0	3200.6	3894.6	4380.2	4117.9
50°	3349.8	3372.2	3405.2	3367.0	3258.3	3148.5	3160.5	3465.7	4137.9	4689.0	4416.5
52.5°	3288.8	3331.2	3420.9	3482.0	3524.0	3501.1	3469.1	3729.1	4366.9	4967.6	4698.9
55°	3061.3	3120.8	3269.6	3417.1	3631.3	3797.8	3839.8	4021.1	4590.2	5212.7	4966.1
57.5°	2646.7	2743.5	2877.1	3175.2	3535.8	3941.3	4272.0	4426.1	4826.8	5474.6	5245.6
60°	1935.8	2065.6	2231.6	2675.2	3202.0	3864.6	4639.8	5048.1	5163.1	5813.8	5609.6
62.5°	1238.9	1319.1	1471.7	1889.6	2495.0	3471.1	4752.4	5825.7	5733.1	6370.1	6155.3
65°	848.2	899.7	1039.5	1274.2	1612.9	2583.7	4450.9	6408.7	6638.6	7251.7	7088.5
67.5°	616.3	655.5	774.7	980.3	1050.9	1529.0	3453.8	6382.0	7518.8	8159.9	7906.1
70°	449.4	477.0	577.3	774.7	808.6	850.5	2092.3	5425.0	7499.7	8401.3	8097.4
72.5°	333.0	352.1	419.3	601.1	654.5	574.4	1035.7	3942.8	6444.5	7598.9	7355.1
75°	240.9	255.2	304.8	459.9	523.8	437.5	516.6	2304.1	4495.2	5345.4	5388.2
77.5°	184.1	195.2	227.6	336.8	419.3	328.2	320.6	1060.0	2131.5	2141.9	2262.2
80°	147.9	155.1	172.7	237.1	321.5	245.7	209.0	427.9	673.6	570.1	598.2
82.5°	108.8	120.6	146.0	166.5	229.9	169.3	127.4	216.1	256.1	220.4	222.3
85°	62.0	70.1	88.3	119.3	146.9	103.5	73.0	95.8	119.3	97.8	87.3
87.5°	21.9	28.6	31.1	46.7	64.0	42.9	28.2	27.7	39.2	29.1	24.3
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°	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0	1318.0
2.5°	1327.6	1325.2	1315.7	1302.8	1289.4	1276.5	1272.3	1263.2	1257.1	1253.7	1257.5
5°	1354.3	1346.7	1324.3	1295.7	1265.6	1233.2	1210.3	1189.3	1174.0	1159.7	1165.4
7.5°	1392.5	1379.1	1340.5	1290.4	1237.0	1183.1	1143.0	1112.4	1091.9	1078.6	1081.5
10°	1436.8	1416.3	1357.2	1282.3	1199.8	1122.5	1075.2	1049.0	1036.2	1029.0	1030.9
12.5°	1487.9	1458.8	1374.4	1263.7	1143.0	1054.7	1022.3	1014.6	1015.2	1015.7	1016.6
15°	1550.9	1510.3	1388.3	1223.1	1069.1	1002.8	997.0	1009.4	1022.3	1028.5	1028.1
17.5°	1622.0	1564.8	1390.6	1156.4	996.5	969.3	987.5	1014.2	1033.8	1042.3	1044.3
20°	1698.3	1620.0	1373.4	1061.9	937.0	942.2	974.6	1009.0	1030.4	1041.4	1044.3
22.5°	1785.6	1679.3	1332.4	962.7	888.3	912.6	950.8	984.1	1006.6	1017.5	1020.4
25°	1885.3	1745.5	1268.0	879.2	846.2	879.2	917.4	945.0	963.2	973.1	976.0
27.5°	1996.0	1814.7	1182.1	812.9	809.5	844.8	876.4	897.8	907.3	915.0	917.9
30°	2107.1	1877.7	1078.1	762.8	777.6	811.0	833.4	843.0	845.8	847.3	850.5
32.5°	2227.3	1932.0	968.9	721.3	747.0	778.1	791.4	795.7	782.4	773.3	776.1
35°	2372.9	1990.2	862.0	688.4	717.0	743.7	748.0	744.2	728.5	709.8	710.8
37.5°	2552.7	2062.7	776.6	665.0	688.9	706.5	701.3	700.3	701.7	679.8	681.2
40°	2773.1	2157.2	714.1	646.9	665.9	669.7	655.0	663.1	670.2	636.8	637.9
42.5°	3017.8	2271.2	674.6	634.5	646.9	637.9	614.9	624.0	623.0	579.1	578.6
45°	3267.3	2395.2	660.7	625.5	629.2	611.1	585.8	588.2	568.2	528.6	530.0
47.5°	3515.3	2528.4	669.3	617.8	607.3	586.8	567.2	556.7	527.2	497.5	497.5
50°	3758.7	2668.2	700.8	602.5	577.3	565.3	551.0	532.4	500.9	475.6	473.8
52.5°	3984.3	2808.9	736.1	577.3	539.6	546.7	537.6	516.2	485.1	459.4	459.9
55°	4198.0	2949.6	749.9	542.4	504.2	530.4	525.2	485.6	448.4	427.4	425.5
57.5°	4430.9	3119.0	734.6	498.0	475.6	511.9	491.8	447.9	426.5	410.7	409.3
60°	4753.3	3384.7	701.7	443.2	448.4	484.2	449.9	431.7	408.4	390.7	389.7
62.5°	5289.0	3880.3	648.8	388.8	416.5	443.2	429.8	411.7	387.9	370.6	370.6
65°	6080.9	4569.1	549.1	346.3	380.7	403.1	408.4	390.2	365.4	347.3	348.3
67.5°	6748.8	5001.4	415.5	311.0	344.0	370.6	385.5	367.8	341.5	323.9	324.4
70°	6712.1	4687.5	317.2	276.2	311.5	338.7	357.8	344.0	315.8	299.1	300.5
72.5°	5961.7	3921.3	256.7	240.9	278.6	305.3	328.2	317.8	289.0	272.9	272.9
75°	4379.8	2783.6	205.1	205.1	237.6	270.5	295.8	289.0	262.8	251.4	248.0
77.5°	1846.2	1167.8	160.7	170.4	197.5	232.4	263.8	266.2	243.3	257.6	233.8
80°	490.9	322.1	122.6	134.1	155.1	191.8	229.5	228.5	203.7	190.3	177.0
82.5°	187.0	126.9	87.3	94.5	112.1	146.9	181.7	187.5	162.7	140.7	140.7
85°	72.1	54.4	53.9	56.8	65.4	97.3	137.4	142.2	122.6	104.0	107.3
87.5°	18.7	16.2	20.0	19.1	30.0	52.0	78.7	81.6	74.9	43.5	62.0
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)