

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: P882277

Luminaire Tested: **NVN-SB2A-827-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882277
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-SB2A-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7360 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

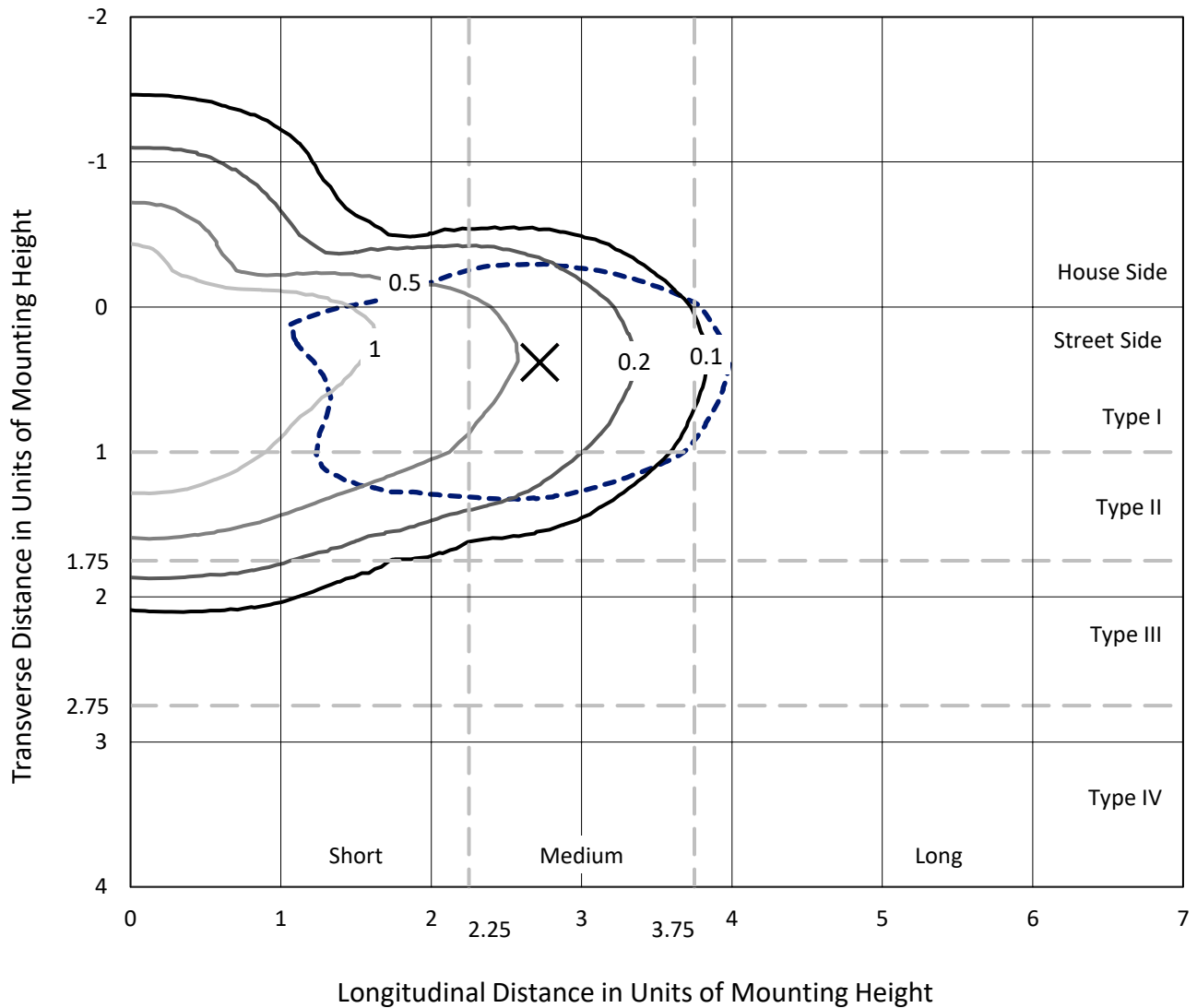
Input Watts (W): 57.3
Input Voltage (V): 120.0
Input Current (Ain): 0.484
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.038
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

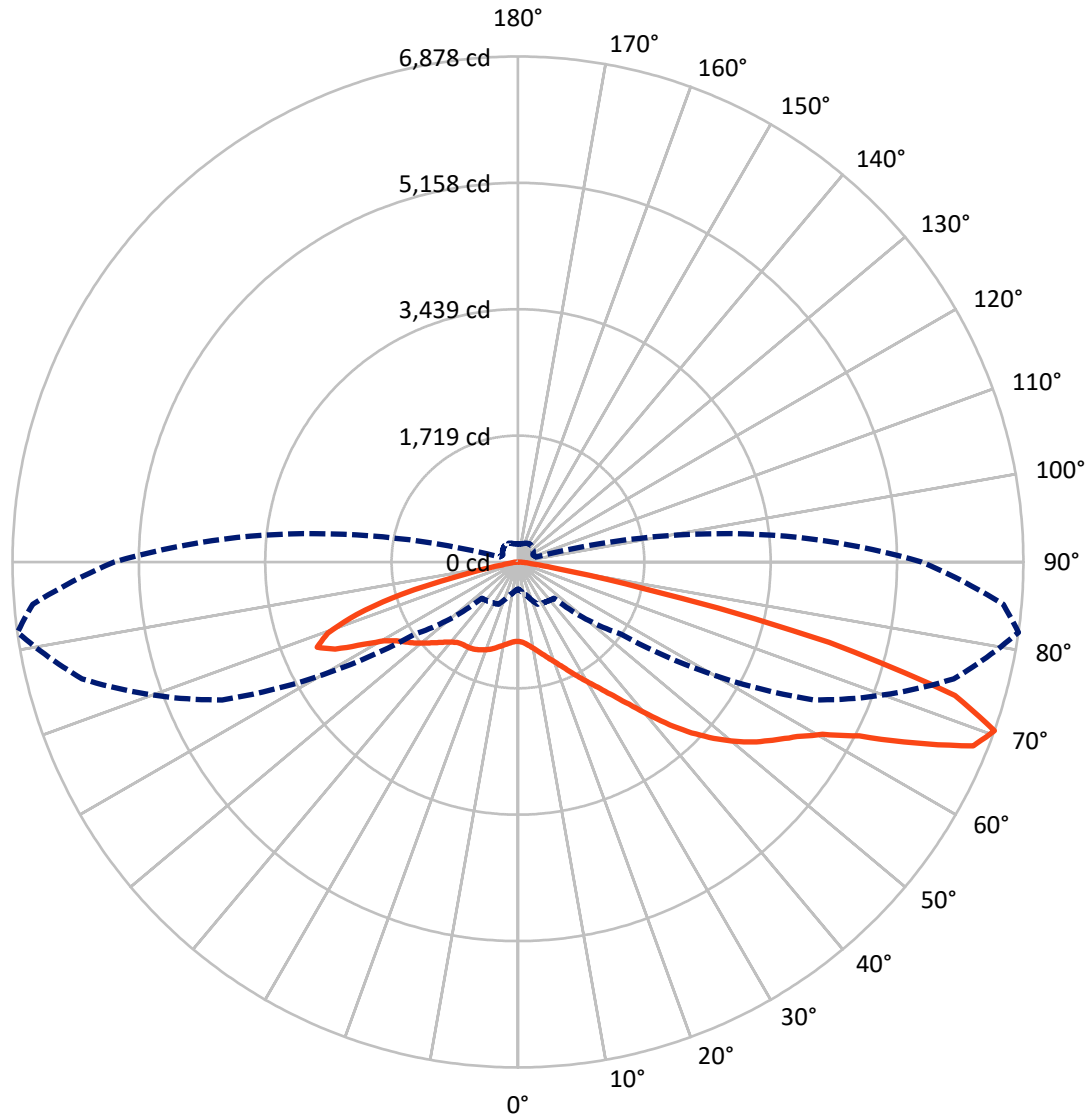
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1814.4	0.0	1814.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5545.6	0.0	5545.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	7360.0	0.0	7360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.4
10°-20°	292.7	4.0
20°-30°	489.7	6.7
30°-40°	765.0	10.4
40°-50°	1218.4	16.6
50°-60°	1695.5	23.0
60°-70°	1773.6	24.1
70°-80°	927.0	12.6
80°-90°	96.3	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°	7360.0	100.0
0°-180°	7360.0	100.0

Coefficient of Utilization



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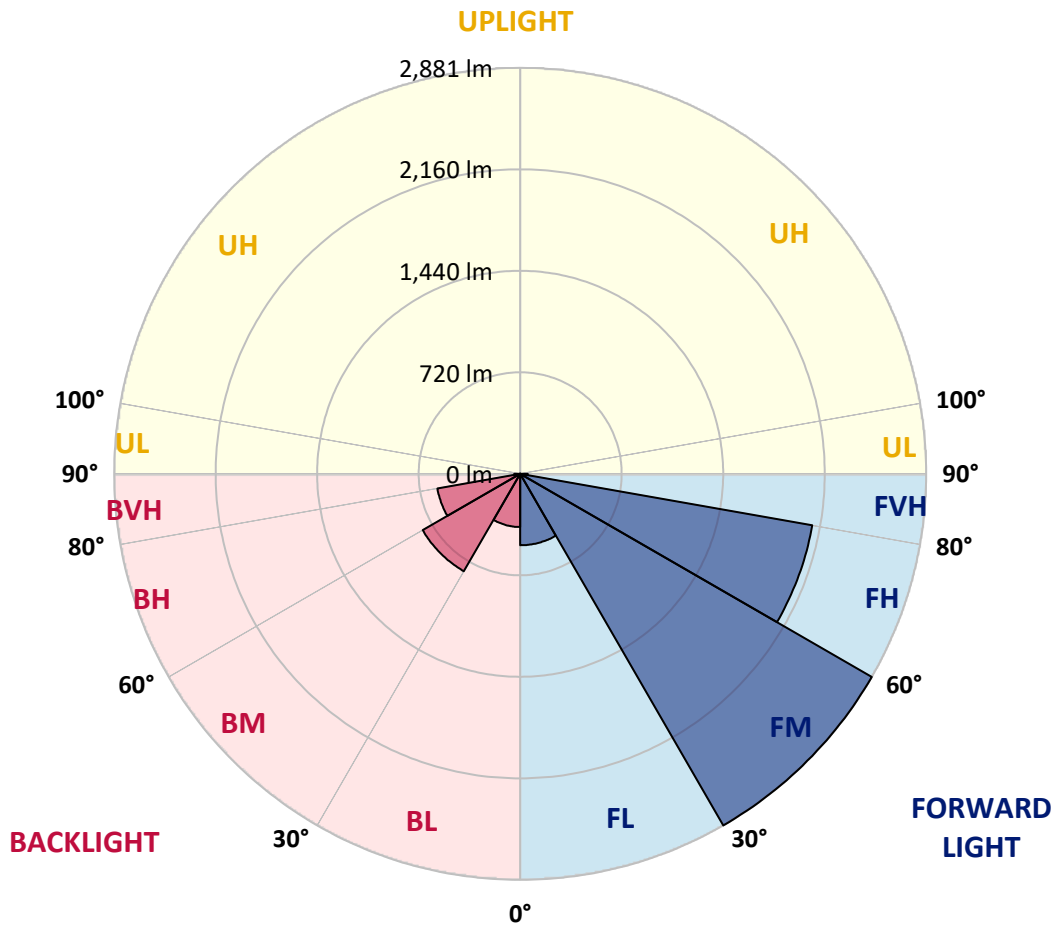
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.8	6.9			
FM (30°-60°)	2880.6	39.1			
FH (60°-80°)	2104.2	28.6			G2/5000
FVH (80°-90°)	53.9	0.7			G1/100
BL (0°-30°)	377.5	5.1	B1/500		
BM (30°-60°)	798.3	10.8	B1/1000		
BH (60°-80°)	596.3	8.1	B2/1000		G2/1000
BVH (80°-90°)	42.4	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°	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1
2.5°	1104.8	1111.1	1109.1	1107.2	1107.2	1104.5	1104.1	1100.2	1097.0	1092.0	1090.8
5°	1118.9	1125.5	1124.8	1126.3	1131.4	1132.6	1133.7	1131.4	1125.2	1118.9	1116.2
7.5°	1106.4	1113.8	1116.2	1125.5	1141.2	1155.2	1165.8	1170.1	1164.2	1155.2	1150.9
10°	1064.2	1072.4	1080.6	1102.9	1130.6	1163.8	1191.9	1208.7	1207.6	1199.0	1191.5
12.5°	978.7	987.3	1004.9	1048.2	1099.0	1157.6	1209.9	1245.0	1257.2	1250.9	1238.0
15°	910.4	917.8	931.1	975.6	1041.6	1130.6	1216.5	1284.9	1315.7	1312.2	1296.6
17.5°	908.4	911.5	919.7	940.8	991.6	1088.4	1209.5	1323.9	1382.9	1382.5	1363.0
20°	942.8	943.9	948.6	952.9	981.8	1056.4	1191.5	1356.4	1458.3	1458.3	1437.2
22.5°	990.4	989.6	994.3	990.4	1004.5	1053.7	1180.2	1384.9	1542.3	1548.5	1521.9
25°	1061.9	1058.0	1056.8	1047.8	1050.6	1079.1	1192.7	1417.3	1641.8	1654.7	1621.5
27.5°	1157.2	1150.9	1146.6	1125.9	1118.9	1131.4	1231.0	1456.3	1752.8	1775.0	1732.8
30°	1281.4	1270.0	1263.8	1227.9	1202.5	1204.4	1288.8	1508.3	1868.7	1904.7	1851.2
32.5°	1450.9	1433.3	1416.5	1357.5	1311.1	1295.8	1363.4	1580.1	1994.5	2051.9	1983.2
35°	1640.7	1626.6	1608.6	1517.6	1446.2	1411.0	1464.1	1680.5	2141.7	2232.7	2143.3
37.5°	1823.4	1811.3	1819.9	1697.3	1605.1	1554.0	1596.1	1815.2	2323.3	2457.7	2344.0
40°	2012.5	2003.1	2004.3	1887.1	1779.7	1722.3	1756.3	1984.3	2531.5	2725.2	2585.4
42.5°	2217.9	2210.9	2187.4	2083.5	1962.9	1909.4	1940.6	2179.6	2754.9	3029.8	2850.2
45°	2447.9	2443.6	2421.8	2302.6	2164.4	2104.2	2146.4	2395.2	2979.4	3316.5	3116.1
47.5°	2646.7	2650.2	2647.5	2547.1	2403.8	2315.5	2365.9	2620.1	3188.4	3586.0	3371.2
50°	2742.4	2760.7	2787.7	2756.4	2667.4	2577.6	2587.3	2837.3	3387.6	3838.6	3615.6
52.5°	2692.4	2727.2	2800.6	2850.6	2884.9	2866.2	2840.0	3052.9	3575.0	4066.7	3846.8
55°	2506.1	2554.9	2676.8	2797.5	2972.8	3109.1	3143.5	3291.9	3757.8	4267.5	4065.5
57.5°	2166.7	2246.0	2355.4	2599.4	2894.7	3226.7	3497.3	3623.5	3951.5	4481.9	4294.4
60°	1584.8	1691.0	1827.0	2190.2	2621.3	3163.8	3798.4	4132.7	4226.8	4759.5	4592.4
62.5°	1014.2	1079.8	1204.8	1546.9	2042.5	2841.6	3890.6	4769.3	4693.5	5214.9	5039.2
65°	694.4	736.6	851.0	1043.1	1320.4	2115.2	3643.8	5246.5	5434.8	5936.6	5803.1
67.5°	504.6	536.6	634.2	802.6	860.4	1251.7	2827.5	5224.7	6155.3	6680.2	6472.5
70°	367.9	390.5	472.6	634.2	662.0	696.3	1712.9	4441.2	6139.7	6877.8	6629.1
72.5°	272.6	288.2	343.3	492.1	535.8	470.2	847.9	3227.8	5275.8	6220.9	6021.4
75°	197.2	208.9	249.6	376.5	428.8	358.1	423.0	1886.3	3680.1	4376.0	4411.2
77.5°	150.7	159.7	186.3	275.7	343.3	268.7	262.4	867.8	1744.9	1753.5	1852.0
80°	121.1	126.9	141.4	194.1	263.2	201.1	171.1	350.3	551.4	466.7	489.7
82.5°	89.0	98.8	119.5	136.3	188.2	138.6	104.3	176.9	209.7	180.4	182.0
85°	50.8	57.4	72.3	97.6	120.3	84.7	59.8	78.5	97.6	80.1	71.5
87.5°	18.0	23.4	25.4	38.3	52.3	35.1	23.0	22.7	32.0	23.8	19.9
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°	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1	1079.1
2.5°	1086.9	1084.9	1077.1	1066.6	1055.6	1045.1	1041.6	1034.2	1029.1	1026.3	1029.5
5°	1108.7	1102.5	1084.1	1060.7	1036.1	1009.6	990.8	973.6	961.1	949.4	954.1
7.5°	1140.0	1129.1	1097.4	1056.4	1012.7	968.5	935.7	910.7	894.0	883.0	885.4
10°	1176.3	1159.5	1111.1	1049.8	982.2	918.9	880.3	858.8	848.3	842.4	844.0
12.5°	1218.1	1194.3	1125.2	1034.5	935.7	863.5	836.9	830.7	831.1	831.5	832.2
15°	1269.7	1236.5	1136.5	1001.4	875.2	820.9	816.2	826.4	836.9	842.0	841.6
17.5°	1327.8	1281.0	1138.4	946.7	815.8	793.6	808.4	830.3	846.3	853.3	854.9
20°	1390.3	1326.3	1124.4	869.3	767.0	771.3	797.9	826.0	843.6	852.6	854.9
22.5°	1461.8	1374.7	1090.8	788.1	727.2	747.1	778.4	805.7	824.0	833.0	835.4
25°	1543.4	1429.0	1038.1	719.8	692.8	719.8	751.0	773.7	788.5	796.7	799.0
27.5°	1634.0	1485.6	967.8	665.5	662.8	691.7	717.4	735.0	742.8	749.1	751.4
30°	1725.0	1537.2	882.6	624.5	636.6	663.9	682.3	690.1	692.4	693.6	696.3
32.5°	1823.4	1581.7	793.2	590.5	611.6	637.0	647.9	651.4	640.5	633.1	635.4
35°	1942.6	1629.3	705.7	563.6	587.0	608.9	612.4	609.2	596.4	581.1	581.9
37.5°	2089.8	1688.7	635.8	544.4	563.9	578.4	574.1	573.3	574.5	556.5	557.7
40°	2270.2	1766.0	584.6	529.6	545.2	548.3	536.2	542.9	548.7	521.4	522.2
42.5°	2470.6	1859.4	552.2	519.4	529.6	522.2	503.4	510.8	510.0	474.1	473.7
45°	2674.8	1960.9	540.9	512.0	515.1	500.3	479.6	481.5	465.1	432.7	433.9
47.5°	2877.9	2069.9	547.9	505.8	497.2	480.4	464.4	455.8	431.5	407.3	407.3
50°	3077.1	2184.3	573.7	493.3	472.6	462.8	451.1	435.8	410.1	389.4	387.8
52.5°	3261.8	2299.5	602.6	472.6	441.7	447.6	440.1	422.6	397.2	376.1	376.5
55°	3436.8	2414.7	613.9	444.0	412.8	434.3	430.0	397.6	367.1	349.9	348.4
57.5°	3627.4	2553.4	601.4	407.7	389.4	419.1	402.6	366.7	349.1	336.3	335.1
60°	3891.4	2770.9	574.5	362.8	367.1	396.4	368.3	353.4	334.3	319.9	319.1
62.5°	4329.9	3176.7	531.1	318.3	340.9	362.8	351.9	337.0	317.5	303.5	303.5
65°	4978.2	3740.6	449.5	283.5	311.7	330.0	334.3	319.5	299.2	284.3	285.1
67.5°	5525.0	4094.4	340.2	254.6	281.6	303.5	315.6	301.1	279.6	265.2	265.6
70°	5494.9	3837.5	259.7	226.1	255.0	277.3	292.9	281.6	258.5	244.9	246.0
72.5°	4880.6	3210.3	210.1	197.2	228.1	249.9	268.7	260.1	236.7	223.4	223.4
75°	3585.6	2278.8	167.9	167.9	194.5	221.4	242.1	236.7	215.2	205.8	203.1
77.5°	1511.4	956.0	131.6	139.4	161.7	190.2	216.0	217.9	199.2	210.9	191.4
80°	401.9	263.6	100.4	109.7	126.9	157.0	187.9	187.1	166.8	155.8	144.9
82.5°	153.1	103.9	71.5	77.3	91.8	120.3	148.8	153.5	133.2	115.2	115.2
85°	59.0	44.5	44.1	46.5	53.5	79.7	112.5	116.4	100.4	85.1	87.9
87.5°	15.2	13.3	16.4	15.6	24.6	42.6	64.4	66.8	61.3	35.5	50.8
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)