

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: P882287

Luminaire Tested: **NVN-SB2A-830-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882287  
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-830-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7926 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

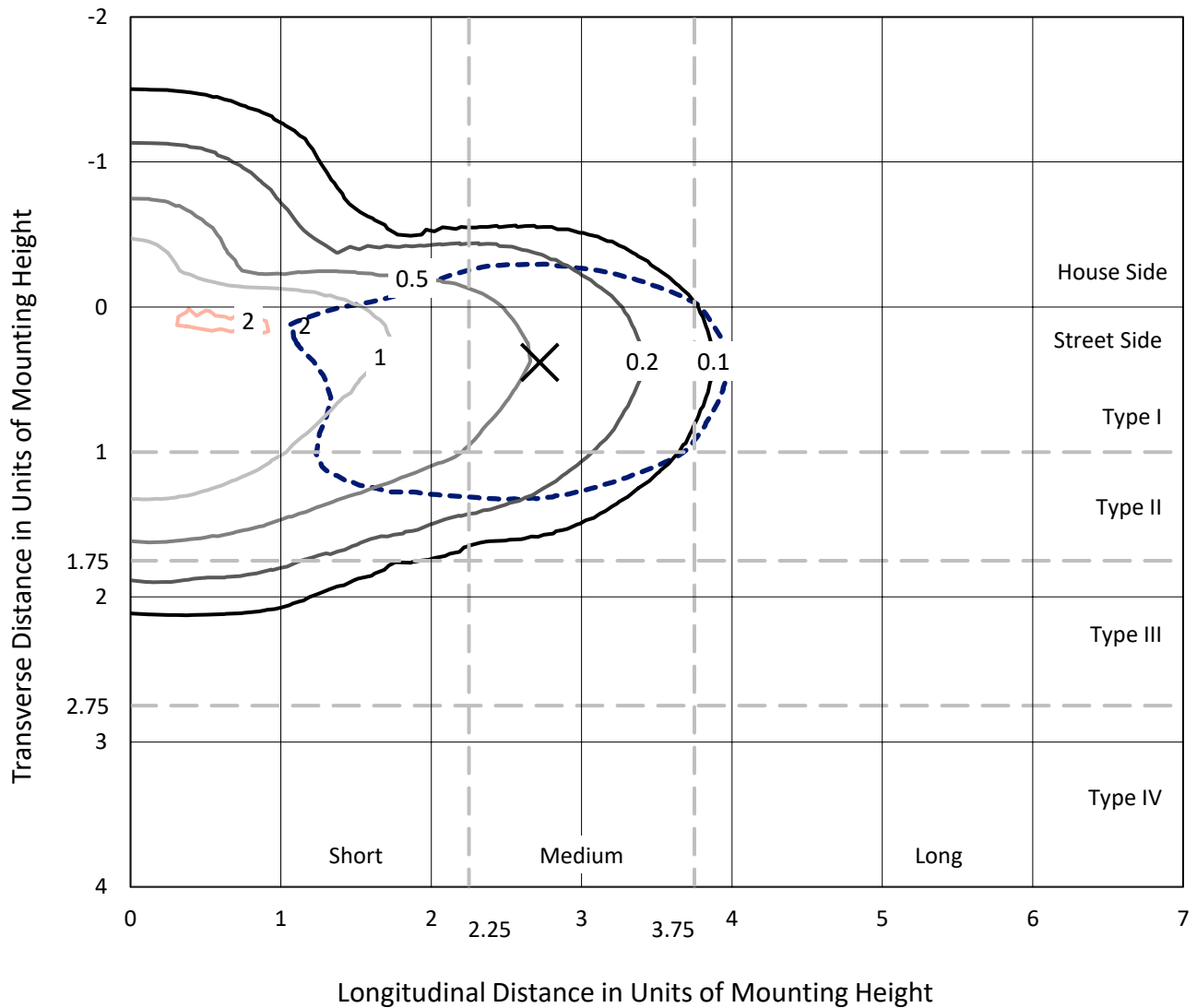
Input Watts (W): 57.3  
Input Voltage (V): 120.0  
Input Current (Ain): 0.484  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.038  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

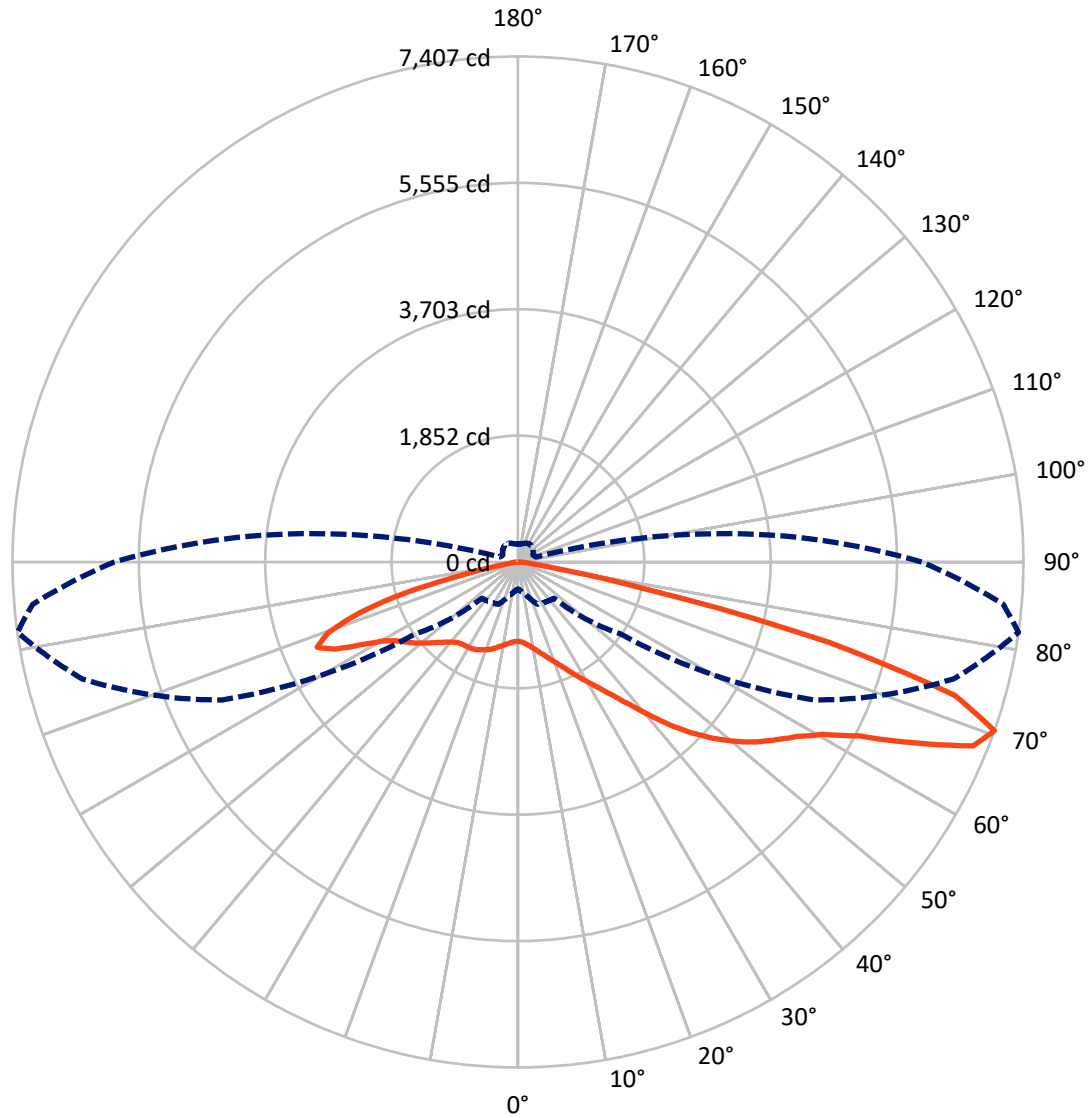
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1954.0	0.0	1954.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	5972.0	0.0	5972.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	7926.0	0.0	7926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	1.4
10°-20°	315.2	4.0
20°-30°	527.3	6.7
30°-40°	823.8	10.4
40°-50°	1312.1	16.6
50°-60°	1825.9	23.0
60°-70°	1910.0	24.1
70°-80°	998.3	12.6
80°-90°	103.7	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°	7926.0	100.0
0°-180°	7926.0	100.0

**Coefficient of Utilization**



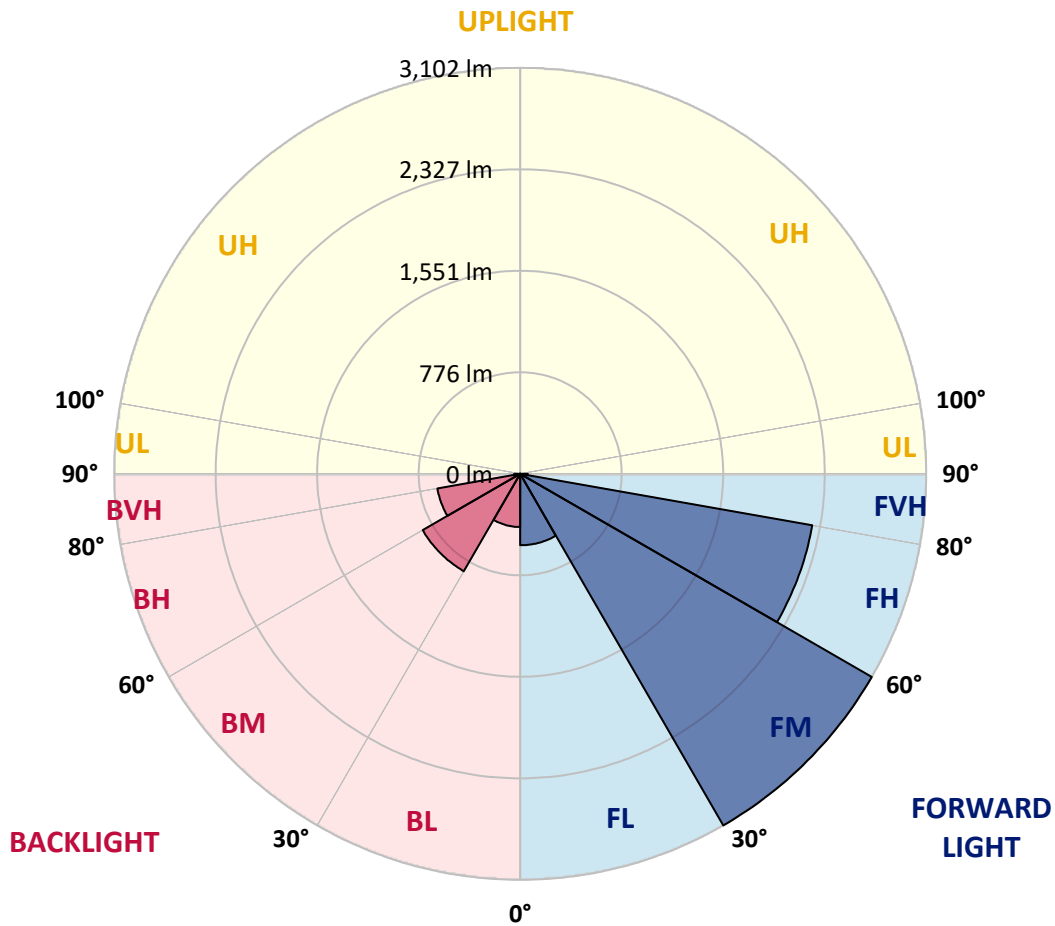
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.8	6.9			
FM (30°-60°)	3102.2	39.1			
FH (60°-80°)	2266.1	28.6			G2/5000
FVH (80°-90°)	58.0	0.7			G1/100
BL (0°-30°)	406.5	5.1	B1/500		
BM (30°-60°)	859.7	10.8	B1/1000		
BH (60°-80°)	642.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	45.6	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°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1189.8	1196.5	1194.4	1192.3	1192.3	1189.4	1189.0	1184.8	1181.4	1175.9	1174.7
5°	1204.9	1212.1	1211.3	1212.9	1218.4	1219.7	1220.9	1218.4	1211.7	1204.9	1202.0
7.5°	1191.5	1199.5	1202.0	1212.1	1228.9	1244.1	1255.4	1260.0	1253.7	1244.1	1239.4
10°	1146.1	1154.9	1163.7	1187.7	1217.6	1253.3	1283.6	1301.7	1300.4	1291.2	1283.2
12.5°	1054.0	1063.2	1082.1	1128.8	1183.5	1246.6	1302.9	1340.8	1353.8	1347.1	1333.2
15°	980.4	988.4	1002.7	1050.6	1121.7	1217.6	1310.1	1383.7	1416.9	1413.1	1396.3
17.5°	978.3	981.6	990.5	1013.2	1067.8	1172.1	1302.5	1425.8	1489.3	1488.8	1467.8
20°	1015.3	1016.5	1021.6	1026.2	1057.3	1137.7	1283.2	1460.7	1570.4	1570.4	1547.7
22.5°	1066.6	1065.7	1070.8	1066.6	1081.7	1134.7	1271.0	1491.4	1660.9	1667.6	1639.0
25°	1143.5	1139.3	1138.1	1128.4	1131.3	1162.1	1284.4	1526.3	1768.1	1782.0	1746.2
27.5°	1246.2	1239.4	1234.8	1212.5	1204.9	1218.4	1325.7	1568.3	1887.5	1911.5	1866.1
30°	1379.9	1367.7	1361.0	1322.3	1295.0	1297.1	1387.9	1624.3	2012.5	2051.1	1993.5
32.5°	1562.4	1543.5	1525.4	1461.9	1411.9	1395.5	1468.2	1701.6	2147.9	2209.7	2135.7
35°	1766.8	1751.7	1732.4	1634.4	1557.4	1519.5	1576.7	1809.7	2306.4	2404.4	2308.1
37.5°	1963.7	1950.6	1959.9	1827.8	1728.6	1673.5	1718.9	1954.8	2502.0	2646.7	2524.3
40°	2167.2	2157.1	2158.4	2032.2	1916.6	1854.7	1891.3	2136.9	2726.2	2934.8	2784.2
42.5°	2388.4	2380.9	2355.6	2243.8	2113.8	2056.2	2089.8	2347.2	2966.7	3262.8	3069.4
45°	2636.2	2631.5	2608.0	2479.7	2330.8	2266.1	2311.5	2579.4	3208.6	3571.5	3355.8
47.5°	2850.2	2854.0	2851.1	2743.0	2588.6	2493.6	2547.8	2821.6	3433.6	3861.7	3630.4
50°	2953.3	2973.0	3002.1	2968.4	2872.5	2775.8	2786.3	3055.5	3648.1	4133.8	3893.7
52.5°	2899.4	2936.9	3015.9	3069.8	3106.8	3086.6	3058.4	3287.6	3850.0	4379.5	4142.7
55°	2698.8	2751.4	2882.6	3012.6	3201.4	3348.2	3385.2	3545.0	4046.8	4595.6	4378.2
57.5°	2333.4	2418.7	2536.5	2799.4	3117.3	3474.8	3766.3	3902.1	4255.4	4826.5	4624.7
60°	1706.7	1821.1	1967.5	2358.6	2822.9	3407.1	4090.5	4450.5	4551.9	5125.6	4945.5
62.5°	1092.2	1162.9	1297.5	1665.9	2199.6	3060.1	4189.8	5136.1	5054.5	5615.9	5426.7
65°	747.8	793.2	916.4	1123.4	1422.0	2277.8	3924.0	5650.0	5852.7	6393.2	6249.3
67.5°	543.4	577.9	683.0	864.3	926.5	1347.9	3045.0	5626.5	6628.7	7193.9	6970.2
70°	396.2	420.6	508.9	683.0	712.9	749.9	1844.6	4782.8	6611.9	7406.8	7138.9
72.5°	293.6	310.4	369.7	529.9	577.0	506.4	913.1	3476.1	5681.6	6699.4	6484.4
75°	212.4	225.0	268.7	405.4	461.8	385.7	455.5	2031.4	3963.1	4712.6	4750.4
77.5°	162.3	172.0	200.6	296.9	369.7	289.4	282.6	934.5	1879.1	1888.4	1994.4
80°	130.4	136.7	152.2	209.0	283.5	216.6	184.2	377.3	593.9	502.6	527.4
82.5°	95.9	106.4	128.7	146.8	202.7	149.3	112.3	190.5	225.8	194.3	196.0
85°	54.7	61.8	77.8	105.1	129.5	91.3	64.3	84.5	105.1	86.2	77.0
87.5°	19.3	25.2	27.3	41.2	56.4	37.9	24.8	24.4	34.5	25.7	21.4
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°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1170.5	1168.4	1159.9	1148.6	1136.8	1125.5	1121.7	1113.7	1108.2	1105.3	1108.6
5°	1194.0	1187.3	1167.5	1142.3	1115.8	1087.2	1067.0	1048.5	1035.0	1022.4	1027.5
7.5°	1227.7	1215.9	1181.8	1137.7	1090.6	1043.0	1007.7	980.8	962.7	950.9	953.4
10°	1266.8	1248.7	1196.5	1130.5	1057.7	989.6	948.0	924.8	913.5	907.2	908.9
12.5°	1311.8	1286.1	1211.7	1114.1	1007.7	929.9	901.3	894.6	895.0	895.4	896.2
15°	1367.3	1331.5	1223.9	1078.4	942.5	884.1	879.0	889.9	901.3	906.8	906.3
17.5°	1430.0	1379.5	1226.0	1019.5	878.6	854.6	870.6	894.1	911.4	919.0	920.6
20°	1497.2	1428.3	1210.8	936.2	826.0	830.6	859.2	889.5	908.4	918.1	920.6
22.5°	1574.2	1480.4	1174.7	848.7	783.1	804.6	838.2	867.6	887.4	897.1	899.6
25°	1662.1	1538.9	1117.9	775.1	746.1	775.1	808.8	833.2	849.1	858.0	860.5
27.5°	1759.7	1599.9	1042.2	716.7	713.7	744.8	772.6	791.5	799.9	806.7	809.2
30°	1857.7	1655.4	950.5	672.5	685.5	715.0	734.7	743.2	745.7	746.9	749.9
32.5°	1963.7	1703.3	854.2	635.9	658.6	686.0	697.7	701.5	689.7	681.8	684.3
35°	2091.9	1754.6	760.0	606.9	632.1	655.7	659.5	656.1	642.2	625.8	626.7
37.5°	2250.5	1818.6	684.7	586.3	607.3	622.9	618.2	617.4	618.7	599.3	600.6
40°	2444.8	1901.8	629.6	570.3	587.1	590.5	577.5	584.6	590.9	561.5	562.3
42.5°	2660.6	2002.4	594.7	559.4	570.3	562.3	542.1	550.1	549.3	510.6	510.2
45°	2880.5	2111.7	582.5	551.4	554.7	538.8	516.5	518.6	500.9	466.0	467.3
47.5°	3099.2	2229.1	590.1	544.6	535.4	517.3	500.1	490.8	464.7	438.7	438.7
50°	3313.7	2352.3	617.8	531.2	508.9	498.4	485.8	469.4	441.6	419.3	417.6
52.5°	3512.6	2476.3	648.9	508.9	475.7	482.0	474.0	455.1	427.7	405.0	405.4
55°	3701.1	2600.4	661.1	478.2	444.5	467.7	463.1	428.1	395.3	376.8	375.2
57.5°	3906.3	2749.7	647.7	439.1	419.3	451.3	433.6	394.9	376.0	362.1	360.9
60°	4190.6	2984.0	618.7	390.7	395.3	426.9	396.6	380.6	360.0	344.5	343.6
62.5°	4662.9	3421.0	572.0	342.8	367.2	390.7	378.9	363.0	341.9	326.8	326.8
65°	5361.1	4028.3	484.1	305.3	335.6	355.4	360.0	344.0	322.2	306.2	307.0
67.5°	5949.9	4409.3	366.3	274.2	303.2	326.8	339.8	324.3	301.1	285.6	286.0
70°	5917.5	4132.6	279.7	243.5	274.6	298.6	315.4	303.2	278.4	263.7	265.0
72.5°	5255.9	3457.1	226.3	212.4	245.6	269.2	289.4	280.1	254.9	240.6	240.6
75°	3861.3	2454.1	180.8	180.8	209.4	238.5	260.8	254.9	231.7	221.6	218.7
77.5°	1627.6	1029.6	141.7	150.1	174.1	204.8	232.6	234.7	214.5	227.1	206.1
80°	432.8	283.9	108.1	118.2	136.7	169.1	202.3	201.5	179.6	167.8	156.0
82.5°	164.9	111.9	77.0	83.3	98.8	129.5	160.2	165.3	143.4	124.1	124.1
85°	63.5	47.9	47.5	50.0	57.6	85.8	121.1	125.3	108.1	91.7	94.6
87.5°	16.4	14.3	17.7	16.8	26.5	45.8	69.4	71.9	66.0	38.3	54.7
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)