

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: P882117

Luminaire Tested: **NVN-SB1D-830-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882117
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-SB1D-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8830 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: B2 - U0 - G2

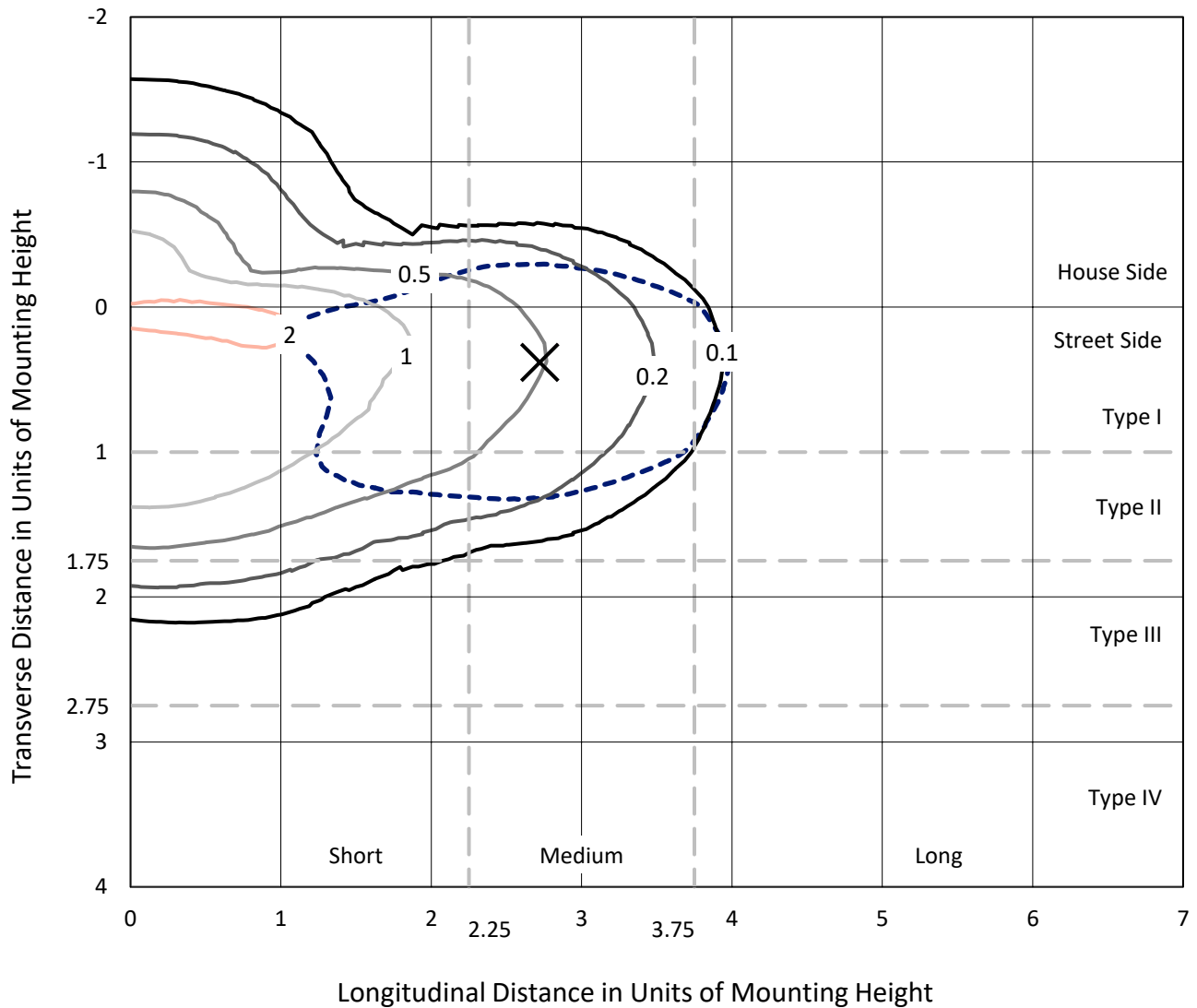
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

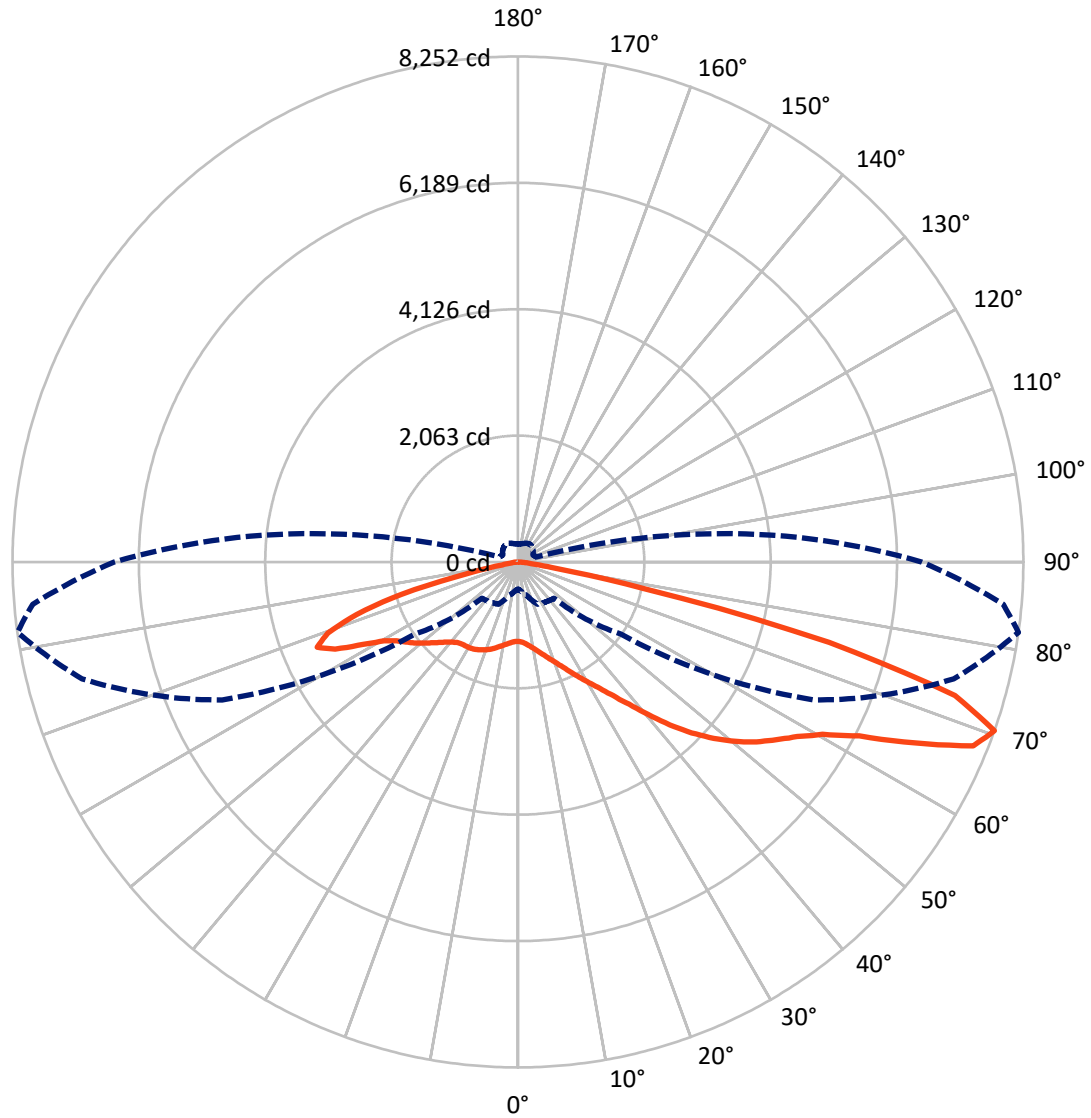
✕ Max cd
 - - - 1/2 Max cd



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	2176.8	0.0	2176.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6653.2	0.0	6653.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	8830.0	0.0	8830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.4
10°-20°	351.2	4.0
20°-30°	587.5	6.7
30°-40°	917.8	10.4
40°-50°	1461.7	16.6
50°-60°	2034.2	23.0
60°-70°	2127.8	24.1
70°-80°	1112.1	12.6
80°-90°	115.5	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°	8830.0	100.0
0°-180°	8830.0	100.0

Coefficient of Utilization



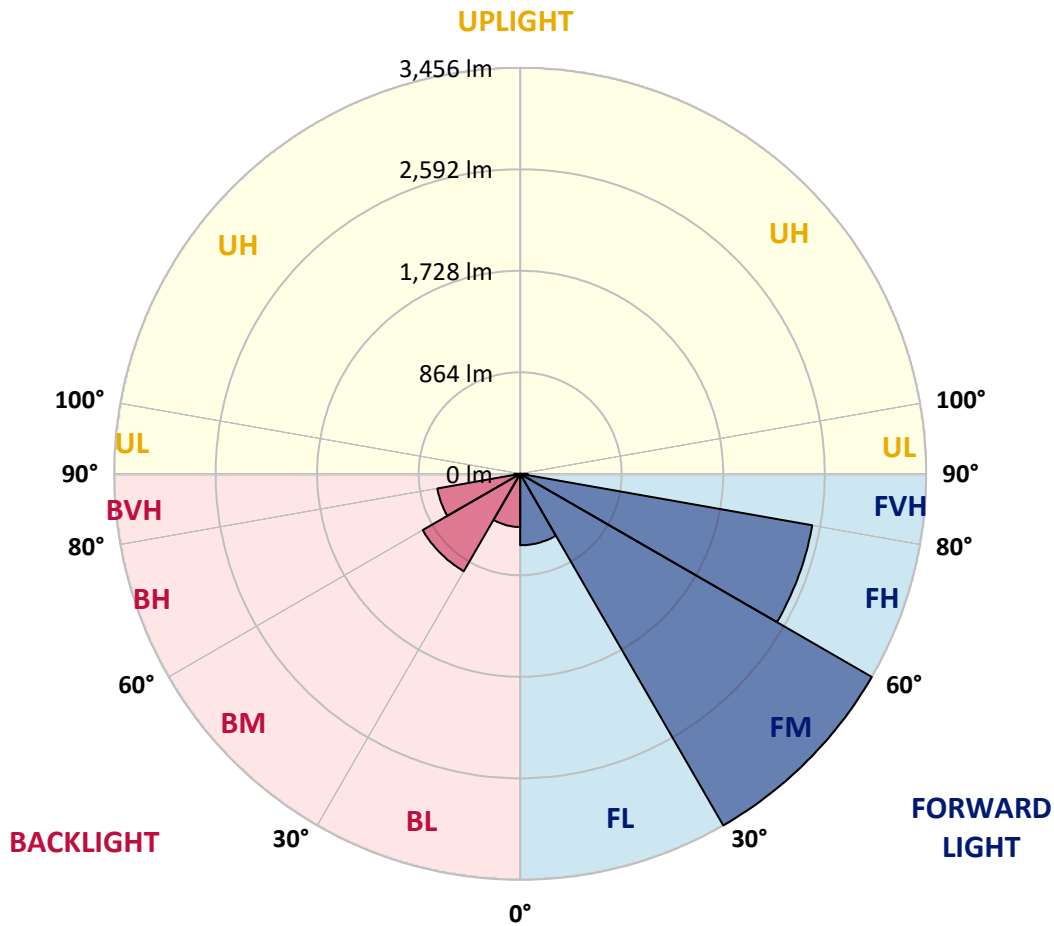
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.0	6.9			
FM (30°-60°)	3456.0	39.1			
FH (60°-80°)	2524.5	28.6			G2/5000
FVH (80°-90°)	64.6	0.7			G1/100
BL (0°-30°)	452.9	5.1	B1/500		
BM (30°-60°)	957.7	10.8	B1/1000		
BH (60°-80°)	715.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	50.8	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°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1325.5	1333.0	1330.7	1328.3	1328.3	1325.0	1324.6	1319.9	1316.1	1310.1	1308.6
5°	1342.4	1350.3	1349.4	1351.3	1357.4	1358.8	1360.2	1357.4	1349.9	1342.4	1339.1
7.5°	1327.4	1336.3	1339.1	1350.3	1369.1	1386.0	1398.6	1403.8	1396.7	1386.0	1380.8
10°	1276.8	1286.6	1296.5	1323.2	1356.4	1396.3	1430.0	1450.1	1448.7	1438.4	1429.5
12.5°	1174.2	1184.5	1205.6	1257.6	1318.5	1388.8	1451.6	1493.7	1508.2	1500.7	1485.3
15°	1092.2	1101.1	1117.0	1170.4	1249.6	1356.4	1459.5	1541.5	1578.5	1574.3	1555.6
17.5°	1089.8	1093.6	1103.4	1128.7	1189.6	1305.8	1451.1	1588.4	1659.1	1658.6	1635.2
20°	1131.1	1132.5	1138.1	1143.2	1177.9	1267.4	1429.5	1627.3	1749.5	1749.5	1724.2
22.5°	1188.2	1187.3	1192.9	1188.2	1205.1	1264.1	1415.9	1661.5	1850.3	1857.8	1825.9
25°	1274.0	1269.3	1267.9	1257.1	1260.4	1294.6	1430.9	1700.3	1969.8	1985.2	1945.4
27.5°	1388.3	1380.8	1375.6	1350.8	1342.4	1357.4	1476.9	1747.2	2102.8	2129.5	2078.9
30°	1537.3	1523.7	1516.2	1473.1	1442.6	1445.0	1546.2	1809.5	2242.0	2285.1	2220.9
32.5°	1740.6	1719.6	1699.4	1628.7	1572.9	1554.6	1635.7	1895.7	2392.9	2461.7	2379.3
35°	1968.4	1951.5	1929.9	1820.8	1735.0	1692.9	1756.6	2016.1	2569.5	2678.7	2571.4
37.5°	2187.6	2173.1	2183.4	2036.3	1925.7	1864.3	1914.9	2177.8	2787.4	2948.6	2812.2
40°	2414.4	2403.2	2404.6	2264.0	2135.2	2066.3	2107.0	2380.7	3037.1	3269.5	3101.8
42.5°	2660.9	2652.4	2624.3	2499.7	2354.9	2290.7	2328.2	2614.9	3305.1	3635.0	3419.4
45°	2936.8	2931.7	2905.4	2762.5	2596.7	2524.5	2575.1	2873.6	3574.5	3978.9	3738.5
47.5°	3175.3	3179.5	3176.3	3055.8	2883.9	2778.0	2838.4	3143.5	3825.2	4302.2	4044.5
50°	3290.1	3312.1	3344.5	3307.0	3200.2	3092.4	3104.1	3404.0	4064.2	4605.3	4337.8
52.5°	3230.1	3271.8	3359.9	3419.9	3461.1	3438.6	3407.3	3662.6	4289.1	4879.0	4615.2
55°	3006.6	3065.2	3211.4	3356.2	3566.6	3730.1	3771.3	3949.4	4508.3	5119.8	4877.5
57.5°	2599.5	2694.6	2825.8	3118.6	3472.9	3871.1	4195.8	4347.2	4740.7	5377.0	5152.1
60°	1901.4	2028.8	2191.9	2627.6	3144.9	3795.7	4557.1	4958.1	5071.1	5710.2	5509.6
62.5°	1216.8	1295.5	1445.5	1855.9	2450.5	3409.1	4667.6	5721.9	5631.0	6256.5	6045.6
65°	833.1	883.7	1021.0	1251.5	1584.1	2537.6	4371.5	6294.4	6520.3	7122.3	6962.1
67.5°	605.4	643.8	760.9	962.9	1032.2	1501.7	3392.3	6268.2	7384.7	8014.5	7765.2
70°	441.4	468.5	566.9	760.9	794.2	835.4	2055.0	5328.3	7366.0	8251.5	7953.1
72.5°	327.0	345.8	411.9	590.4	642.8	564.1	1017.2	3872.5	6329.6	7463.4	7224.0
75°	236.6	250.7	299.4	451.7	514.5	429.7	507.4	2263.1	4415.1	5250.0	5292.2
77.5°	180.9	191.6	223.5	330.8	411.9	322.4	314.9	1041.1	2093.5	2103.8	2221.8
80°	145.2	152.3	169.6	232.9	315.8	241.3	205.2	420.3	661.6	559.9	587.6
82.5°	106.8	118.5	143.4	163.5	225.8	166.3	125.1	212.3	251.6	216.5	218.3
85°	60.9	68.9	86.7	117.1	144.3	101.7	71.7	94.2	117.1	96.1	85.7
87.5°	21.6	28.1	30.5	45.9	62.8	42.2	27.6	27.2	38.4	28.6	23.9
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°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1304.0	1301.6	1292.2	1279.6	1266.5	1253.8	1249.6	1240.7	1234.6	1231.3	1235.1
5°	1330.2	1322.7	1300.7	1272.6	1243.0	1211.2	1188.7	1168.1	1153.1	1139.0	1144.7
7.5°	1367.7	1354.6	1316.6	1267.4	1214.9	1162.0	1122.6	1092.6	1072.5	1059.4	1062.2
10°	1411.3	1391.1	1333.0	1259.4	1178.4	1102.5	1056.1	1030.3	1017.7	1010.7	1012.5
12.5°	1461.4	1432.8	1349.9	1241.2	1122.6	1036.0	1004.1	996.6	997.1	997.5	998.5
15°	1523.2	1483.4	1363.5	1201.3	1050.0	984.9	979.3	991.4	1004.1	1010.2	1009.7
17.5°	1593.1	1536.8	1365.8	1135.8	978.8	952.1	969.9	996.1	1015.3	1023.8	1025.6
20°	1668.0	1591.2	1348.9	1043.0	920.2	925.4	957.2	991.0	1012.1	1022.8	1025.6
22.5°	1753.8	1649.3	1308.6	945.5	872.4	896.3	933.8	966.6	988.6	999.4	1002.2
25°	1851.7	1714.4	1245.4	863.5	831.2	863.5	901.0	928.2	946.0	955.8	958.6
27.5°	1960.4	1782.3	1161.1	798.4	795.1	829.8	860.7	881.8	891.2	898.7	901.5
30°	2069.6	1844.2	1058.9	749.2	763.7	796.5	818.5	827.9	830.7	832.1	835.4
32.5°	2187.6	1897.6	951.6	708.4	733.7	764.2	777.3	781.5	768.4	759.5	762.3
35°	2330.5	1954.8	846.7	676.1	704.2	730.5	734.7	730.9	715.5	697.2	698.1
37.5°	2507.2	2026.0	762.8	653.2	676.6	693.9	688.8	687.8	689.2	667.7	669.1
40°	2723.6	2118.8	701.4	635.3	654.1	657.8	643.3	651.3	658.3	625.5	626.4
42.5°	2964.0	2230.7	662.5	623.2	635.3	626.4	604.0	612.9	611.9	568.8	568.3
45°	3209.1	2352.6	648.9	614.3	618.0	600.2	575.4	577.7	558.0	519.1	520.6
47.5°	3452.7	2483.3	657.4	606.8	596.5	576.3	557.1	546.8	517.7	488.7	488.7
50°	3691.7	2620.6	688.3	591.8	566.9	555.2	541.2	522.9	492.0	467.1	465.3
52.5°	3913.3	2758.8	723.0	566.9	529.9	537.0	528.0	507.0	476.5	451.2	451.7
55°	4123.2	2897.0	736.6	532.7	495.3	521.0	515.9	477.0	440.4	419.8	417.9
57.5°	4351.8	3063.3	721.6	489.2	467.1	502.7	483.1	440.0	418.9	403.4	402.0
60°	4668.6	3324.3	689.2	435.3	440.4	475.6	441.8	424.0	401.1	383.7	382.8
62.5°	5194.8	3811.1	637.2	381.9	409.0	435.3	422.2	404.4	380.9	364.1	364.1
65°	5972.5	4487.7	539.3	340.2	373.9	395.9	401.1	383.3	358.9	341.1	342.0
67.5°	6628.5	4912.2	408.1	305.5	337.8	364.1	378.6	361.2	335.5	318.1	318.6
70°	6592.4	4603.9	311.6	271.3	306.0	332.7	351.4	337.8	310.2	293.8	295.2
72.5°	5855.4	3851.4	252.1	236.6	273.6	299.9	322.4	312.1	283.9	268.0	268.0
75°	4301.7	2734.0	201.5	201.5	233.3	265.7	290.5	283.9	258.2	246.9	243.6
77.5°	1813.3	1147.0	157.9	167.3	194.0	228.2	259.1	261.4	239.0	253.0	229.6
80°	482.1	316.3	120.4	131.7	152.3	188.4	225.4	224.4	200.1	186.9	173.8
82.5°	183.7	124.6	85.7	92.8	110.1	144.3	178.5	184.1	159.8	138.2	138.2
85°	70.8	53.4	52.9	55.8	64.2	95.6	134.9	139.6	120.4	102.1	105.4
87.5°	18.3	15.9	19.7	18.7	29.5	51.1	77.3	80.1	73.6	42.6	60.9
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)