

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: P882056

Luminaire Tested: **NVN-SB1D-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7321 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

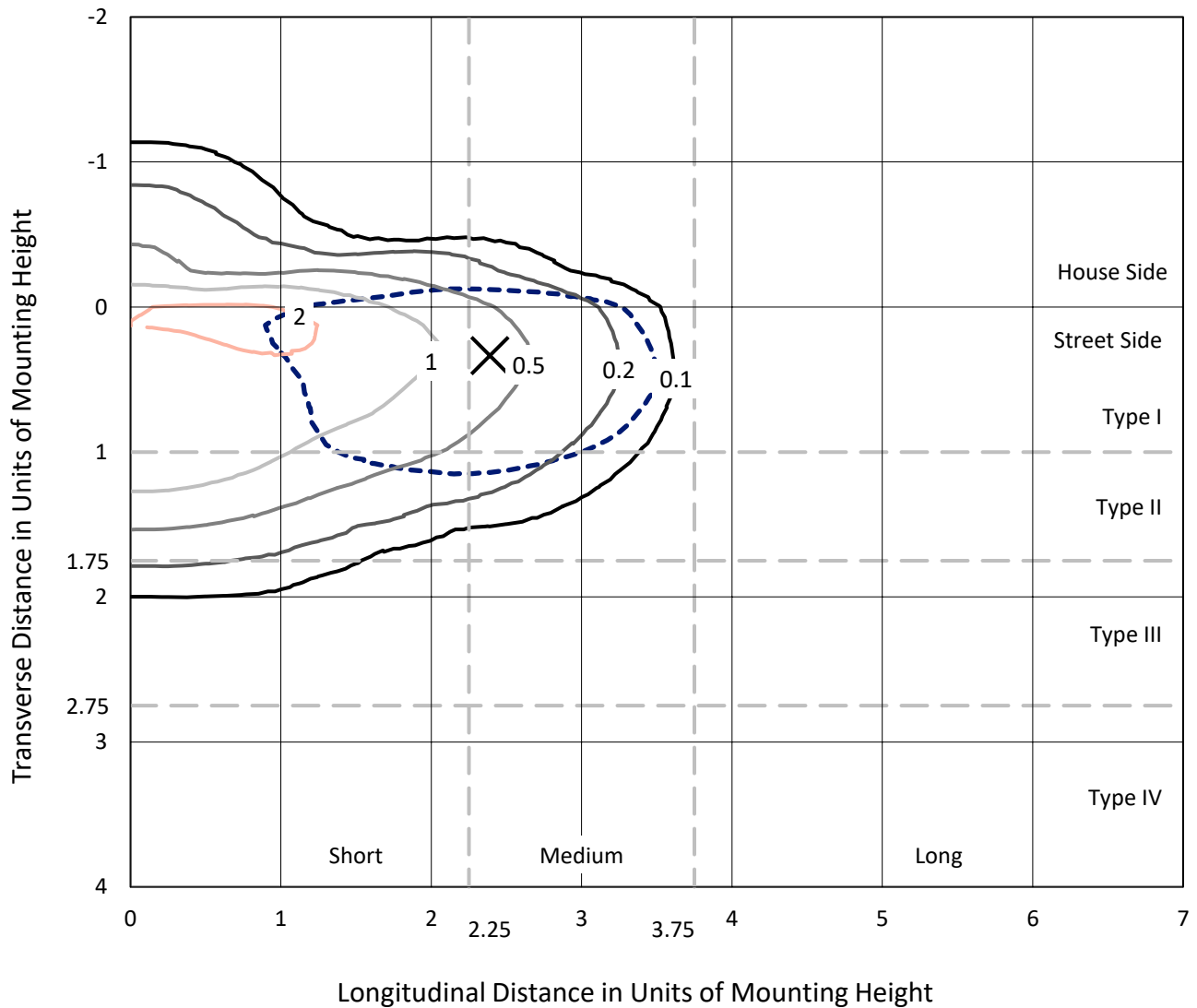
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

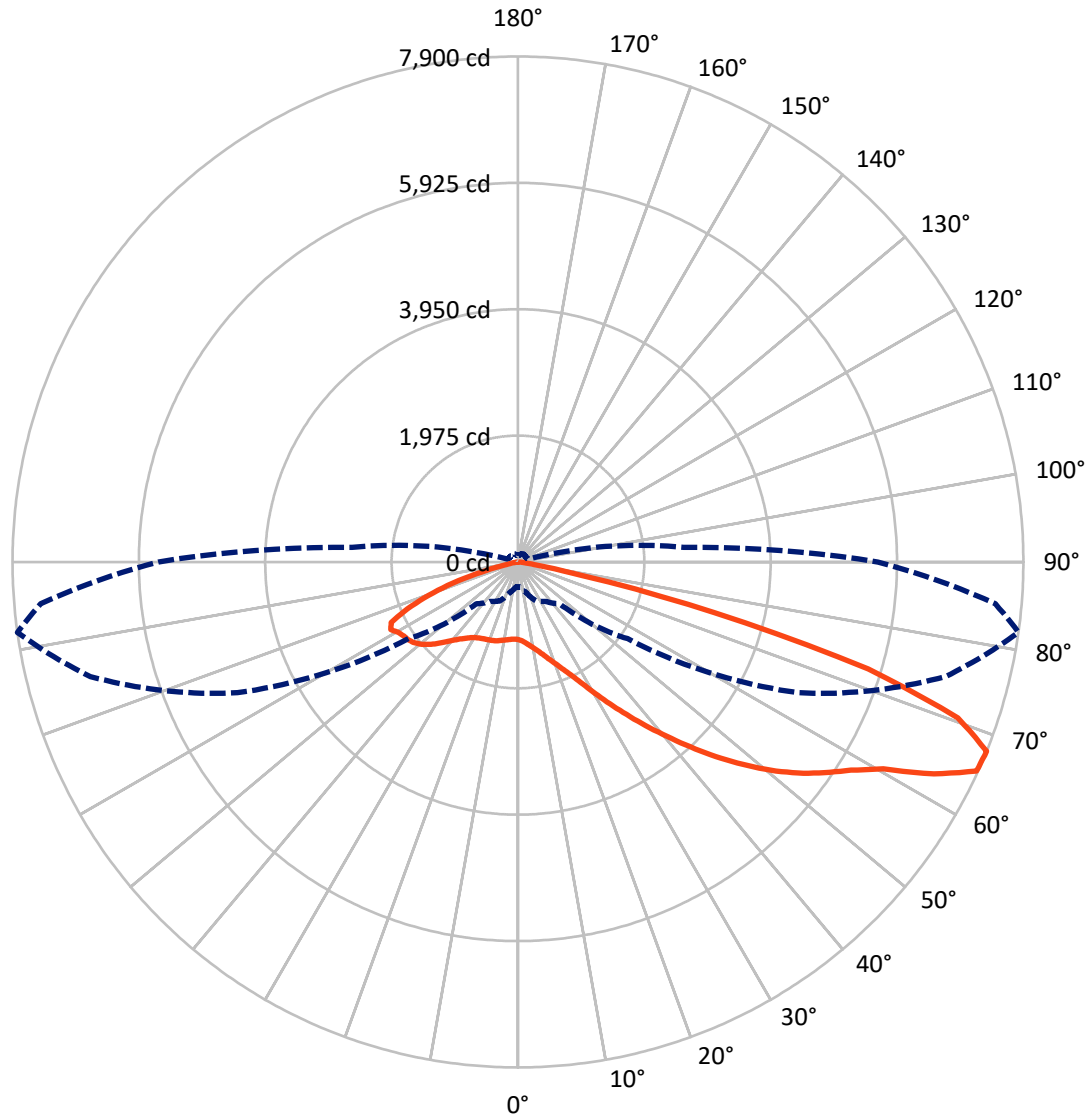
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1326.1	0.0	1326.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5994.9	0.0	5994.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	7321.0	0.0	7321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	1.5
10°-20°	280.8	3.8
20°-30°	449.7	6.1
30°-40°	795.3	10.9
40°-50°	1393.4	19.0
50°-60°	1858.4	25.4
60°-70°	1730.1	23.6
70°-80°	664.0	9.1
80°-90°	41.2	0.6
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°	7321.0	100.0
0°-180°	7321.0	100.0

Coefficient of Utilization



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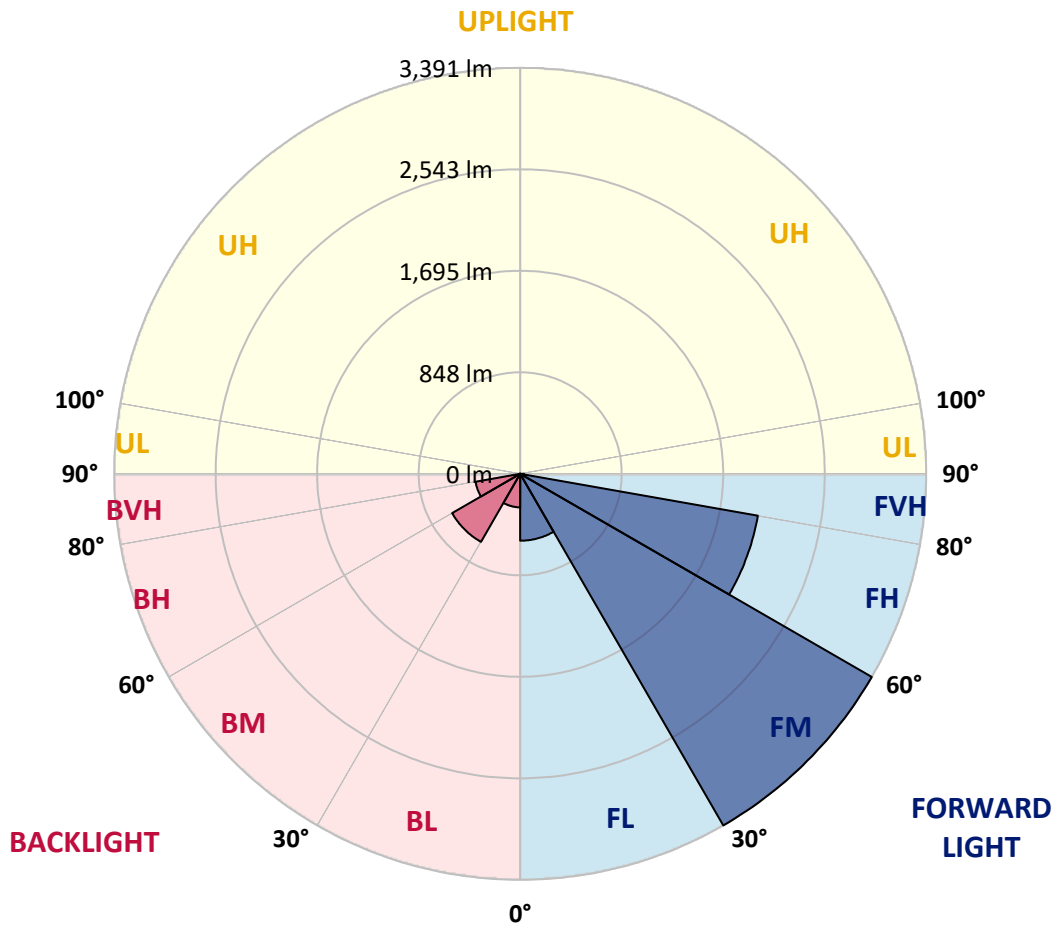
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.5	7.6			
FM (30°-60°)	3390.8	46.3			
FH (60°-80°)	2015.6	27.5			G2/5000
FVH (80°-90°)	30.0	0.4			G1/100
BL (0°-30°)	280.1	3.8	B1/500		
BM (30°-60°)	656.3	9.0	B1/1000		
BH (60°-80°)	378.5	5.2	B1/500		G1/500
BVH (80°-90°)	11.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8
2.5°	1281.9	1289.3	1285.1	1282.9	1279.3	1274.0	1269.8	1256.6	1242.9	1233.9	1230.8
5°	1307.7	1315.1	1314.6	1316.7	1319.3	1320.9	1319.8	1305.1	1285.6	1270.3	1261.3
7.5°	1285.6	1294.0	1300.9	1311.4	1329.9	1349.4	1358.8	1355.7	1335.7	1314.6	1303.5
10°	1222.9	1231.8	1248.2	1272.9	1311.9	1354.1	1389.4	1405.8	1393.1	1369.9	1354.6
12.5°	1108.0	1116.9	1149.1	1202.8	1268.2	1341.5	1408.9	1452.7	1455.8	1432.6	1414.7
15°	978.8	987.8	1022.0	1089.5	1189.1	1306.7	1419.5	1502.2	1530.2	1510.1	1488.5
17.5°	898.7	906.6	932.4	986.7	1090.6	1237.1	1415.8	1554.9	1618.7	1602.9	1577.1
20°	874.4	881.3	893.4	931.4	1017.8	1164.9	1391.5	1604.5	1714.1	1705.1	1676.2
22.5°	900.3	906.6	910.3	927.2	981.4	1117.4	1361.0	1655.1	1824.8	1825.9	1790.5
25°	959.8	966.2	961.9	972.5	996.2	1102.7	1349.4	1714.6	1964.0	1975.5	1935.5
27.5°	1057.9	1058.4	1048.4	1047.9	1051.6	1124.8	1361.5	1778.4	2139.5	2161.1	2111.5
30°	1254.5	1246.6	1208.1	1166.5	1147.5	1191.2	1395.2	1853.8	2346.6	2385.1	2322.9
32.5°	1557.6	1546.0	1475.3	1375.7	1275.6	1298.2	1455.8	1939.7	2572.2	2641.8	2565.9
35°	1886.5	1883.3	1809.5	1661.4	1486.4	1450.6	1554.4	2052.5	2818.4	2929.1	2838.9
37.5°	2192.2	2190.6	2148.4	1974.0	1761.0	1663.0	1712.5	2200.1	3081.9	3242.2	3135.7
40°	2471.5	2476.3	2434.1	2278.1	2063.6	1935.5	1927.6	2382.5	3375.0	3583.2	3456.7
42.5°	2712.9	2718.2	2675.5	2560.1	2362.4	2237.0	2191.7	2605.9	3661.2	3949.5	3799.8
45°	2876.9	2909.6	2903.2	2811.0	2669.2	2539.0	2509.0	2886.4	3987.5	4338.0	4162.5
47.5°	2923.3	2953.3	3000.7	3013.4	2926.9	2798.9	2834.7	3224.2	4317.4	4727.0	4527.2
50°	2808.9	2836.8	2935.4	3066.6	3126.7	3087.2	3151.5	3586.3	4655.3	5114.9	4885.1
52.5°	2583.3	2611.7	2736.1	2943.8	3188.9	3313.3	3469.3	3943.2	4982.6	5482.3	5224.0
55°	2257.0	2287.1	2446.8	2681.9	3070.3	3406.6	3734.5	4299.5	5282.5	5812.8	5529.7
57.5°	1813.2	1835.3	2001.4	2330.3	2772.0	3313.8	3930.0	4688.5	5565.1	6137.5	5832.8
60°	1181.7	1201.2	1394.2	1761.0	2277.6	3003.9	3969.0	5122.3	5940.3	6559.7	6241.3
62.5°	785.9	799.1	913.5	1182.8	1603.9	2408.8	3740.8	5468.6	6490.6	7294.4	6941.8
65°	539.2	552.4	666.8	854.4	1036.3	1593.4	3084.6	5422.7	6989.3	7877.9	7461.0
67.5°	384.8	395.8	492.8	669.9	750.1	925.6	2091.0	4836.6	6917.6	7900.1	7488.9
70°	275.7	282.0	362.1	521.8	596.1	556.1	1162.8	3699.1	6056.8	7295.0	6918.6
72.5°	192.9	195.0	251.4	397.4	480.2	405.9	553.4	2466.3	4581.0	5725.8	5363.7
75°	130.7	133.4	169.2	291.5	385.3	309.9	293.1	1322.5	2689.2	3169.4	2841.0
77.5°	80.1	81.2	109.1	199.2	288.3	236.1	188.7	560.3	1040.5	1021.5	870.8
80°	45.3	45.3	69.6	123.9	196.6	152.3	132.3	238.2	329.4	289.4	255.1
82.5°	25.3	25.8	50.6	77.0	130.2	90.1	72.7	110.2	142.3	126.0	109.6
85°	10.5	11.6	31.1	36.4	62.2	44.8	29.5	46.4	52.7	46.9	34.3
87.5°	1.1	1.6	9.5	6.9	7.4	9.0	4.2	9.0	7.4	7.4	5.3
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°	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8	1212.8
2.5°	1220.7	1212.8	1192.8	1169.6	1139.0	1124.3	1104.3	1090.6	1079.0	1080.0	1069.5
5°	1244.5	1224.4	1179.6	1123.8	1054.2	1004.6	951.9	915.6	886.0	879.7	865.5
7.5°	1277.1	1245.5	1167.0	1066.3	948.8	859.7	780.1	729.0	692.6	681.0	669.4
10°	1319.3	1273.5	1150.6	994.1	824.9	711.6	626.2	586.1	561.4	552.9	546.6
12.5°	1368.3	1305.6	1129.0	906.1	697.3	588.2	533.9	513.9	506.0	503.4	501.8
15°	1430.0	1345.7	1096.4	801.7	589.3	512.9	489.7	487.0	488.1	487.0	486.5
17.5°	1503.3	1389.4	1043.1	694.2	516.6	474.4	466.0	468.1	470.7	470.2	469.1
20°	1583.4	1432.6	975.1	598.8	467.0	447.0	442.2	444.3	446.4	445.4	444.9
22.5°	1674.6	1479.0	899.7	524.5	433.8	421.7	416.4	416.9	416.9	414.8	413.8
25°	1783.7	1530.2	820.7	471.7	408.5	399.0	392.7	390.6	387.4	381.1	380.0
27.5°	1913.9	1584.4	744.8	434.9	388.5	379.5	372.1	366.9	359.0	348.4	347.4
30°	2060.4	1650.3	680.5	411.7	372.7	363.7	355.3	347.4	335.8	322.6	321.5
32.5°	2232.8	1721.0	633.6	396.4	358.4	348.9	338.9	329.4	316.8	303.6	304.1
35°	2438.3	1806.3	606.2	385.8	347.4	334.7	323.6	313.1	303.6	292.0	291.0
37.5°	2661.3	1897.0	597.7	380.6	340.0	320.5	307.8	300.4	299.4	292.5	292.0
40°	2905.3	2004.5	604.0	377.4	332.1	306.8	293.1	291.5	294.1	282.0	282.5
42.5°	3163.6	2132.1	614.6	373.7	321.0	293.1	279.9	279.9	277.8	260.9	260.9
45°	3443.0	2279.2	625.1	364.7	307.8	279.4	269.3	265.7	256.7	240.4	239.8
47.5°	3724.4	2428.8	633.0	348.4	292.0	267.8	258.8	250.4	237.2	222.4	221.9
50°	3991.7	2563.3	624.6	324.2	274.1	256.7	247.2	235.6	221.4	211.4	209.8
52.5°	4230.5	2679.7	588.8	295.7	255.1	245.1	236.7	224.5	212.9	202.4	201.3
55°	4438.1	2774.1	525.5	268.8	238.2	235.1	226.7	211.4	195.6	186.6	185.5
57.5°	4637.4	2845.8	446.4	246.7	223.0	224.0	211.4	197.7	182.9	173.4	172.4
60°	4902.5	2941.7	366.3	226.1	206.6	209.8	196.1	186.1	167.6	155.5	153.9
62.5°	5326.3	3090.9	291.0	200.8	187.6	188.7	182.9	170.8	148.6	134.4	133.4
65°	5662.6	3036.1	229.3	173.4	166.0	167.6	167.6	154.4	130.7	114.4	112.8
67.5°	5624.6	2599.6	182.9	146.5	145.5	146.5	150.2	139.2	116.0	102.8	100.7
70°	5181.3	2067.8	146.5	121.8	126.5	123.9	134.4	127.0	104.4	91.2	89.6
72.5°	4227.8	1489.6	111.7	100.7	97.0	101.2	121.2	114.4	87.0	72.2	70.6
75°	2470.5	794.9	83.3	79.6	70.1	84.3	107.5	97.5	66.4	53.2	51.7
77.5°	804.3	277.3	61.1	58.5	52.2	68.0	91.7	82.2	54.3	42.2	40.6
80°	215.6	83.8	41.6	38.5	33.7	50.6	72.7	65.4	39.0	27.4	26.9
82.5°	86.4	35.3	24.2	21.6	18.4	34.8	57.5	52.7	29.0	17.4	17.4
85°	27.9	11.6	9.0	6.9	8.4	21.6	34.3	35.8	20.6	9.0	6.9
87.5°	3.7	1.6	1.6	2.1	1.6	3.7	10.5	10.0	5.8	1.1	0.0
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)