

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: P882398

Luminaire Tested: **NVN-SB2B-730-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2B-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

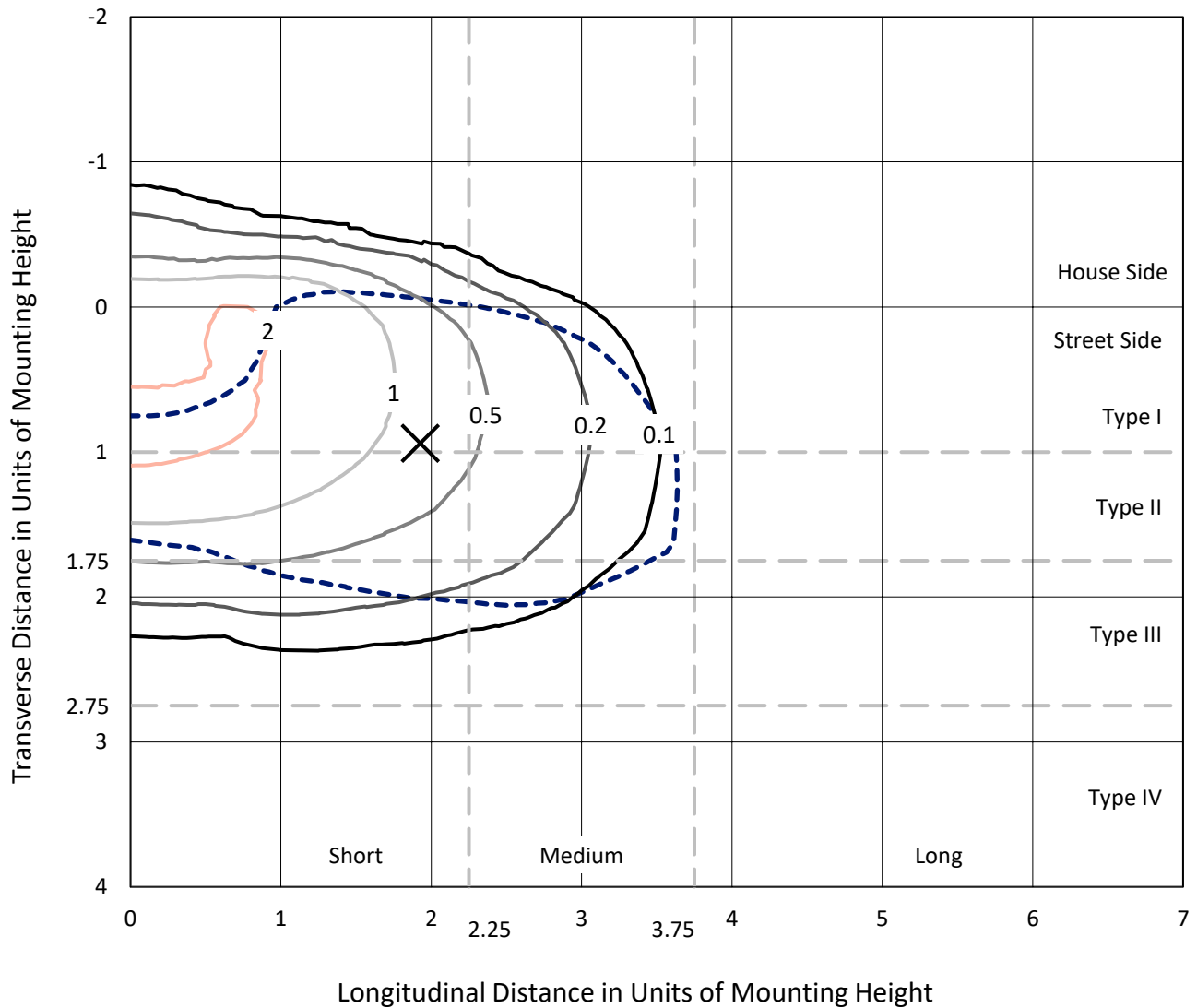
Lumens per Lamp: N/A  
Luminaire Lumens: 8860 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

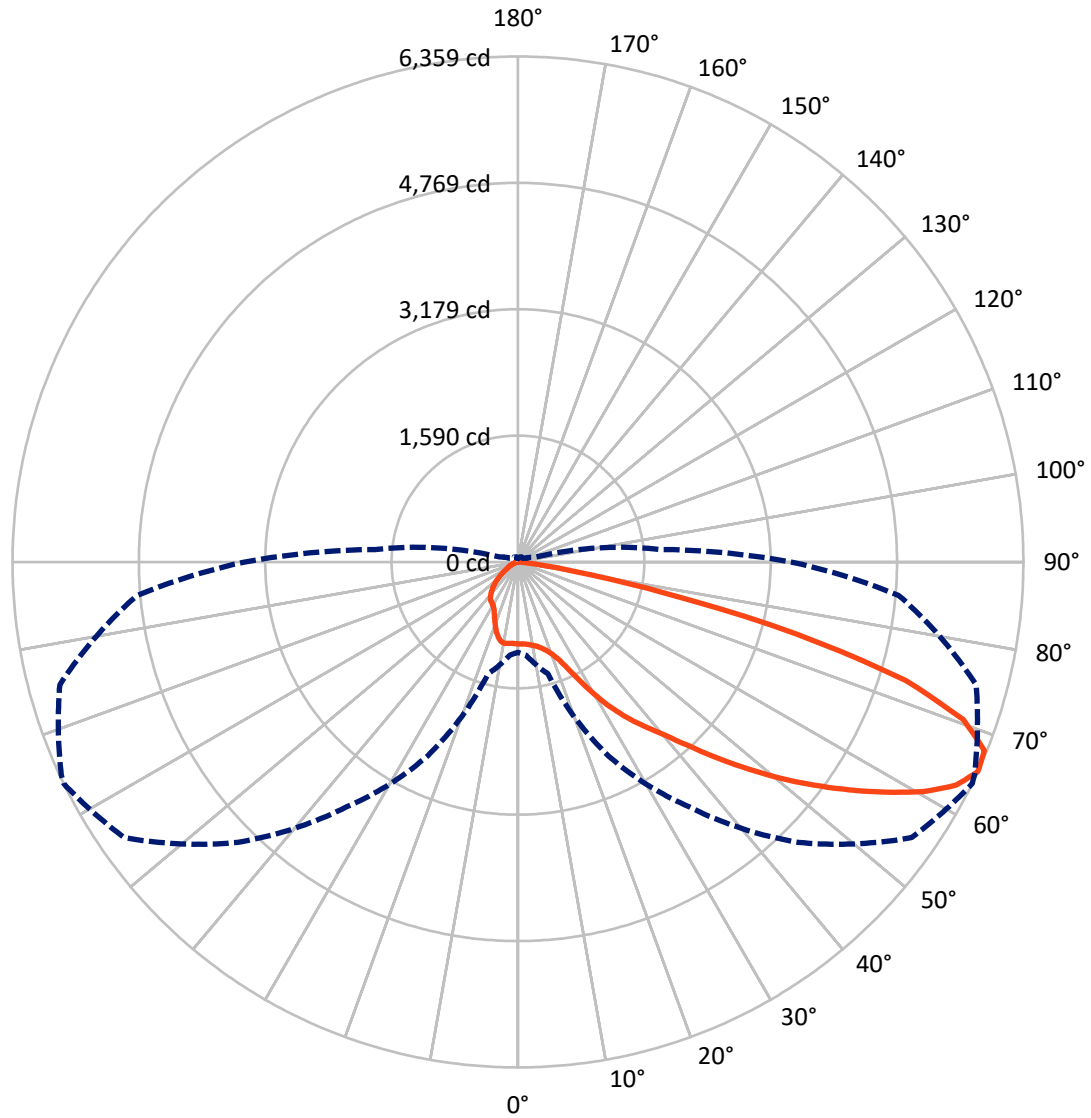
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P882398  
CATALOG NUMBER: NVN-SB2B-730-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1184.9	0.0	1184.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	7675.1	0.0	7675.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	8860.0	0.0	8860.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.1	1.1
10°-20°	257.9	2.9
20°-30°	488.6	5.5
30°-40°	988.8	11.2
40°-50°	1684.4	19.0
50°-60°	2290.7	25.9
60°-70°	2151.0	24.3
70°-80°	861.8	9.7
80°-90°	41.8	0.5
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°	8860.0	100.0
0°-180°	8860.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P882398

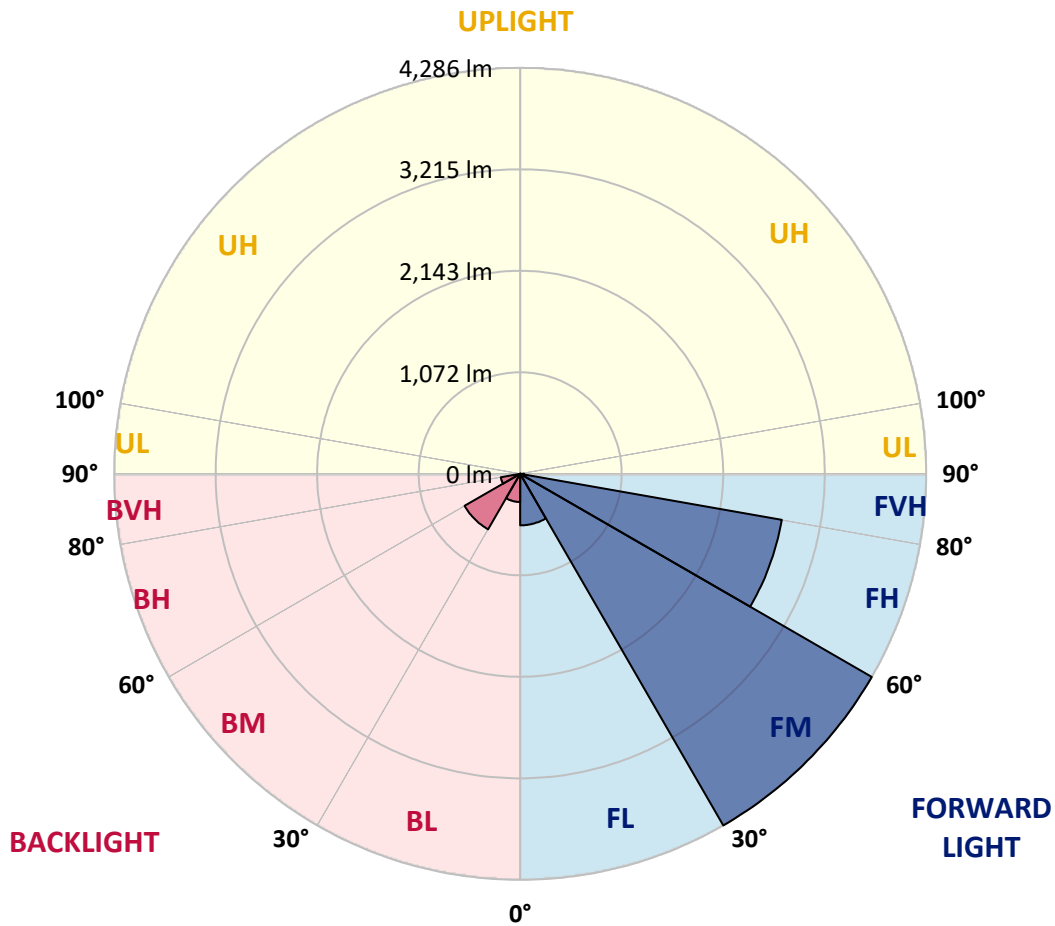
CATALOG NUMBER: NVN-SB2B-730-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.1	6.1			
FM (30°-60°)	4286.5	48.4			
FH (60°-80°)	2804.9	31.7			G2/5000
FVH (80°-90°)	39.7	0.4			G1/100
BL (0°-30°)	297.5	3.4	B1/500		
BM (30°-60°)	677.4	7.6	B1/1000		
BH (60°-80°)	208.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



REPORT NUMBER: P882398

CATALOG NUMBER: NVN-SB2B-730-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5
2.5°	1026.9	1034.1	1032.3	1030.5	1029.9	1031.1	1031.7	1031.1	1031.1	1031.1	1031.7
5°	1007.3	1013.3	1013.3	1017.4	1023.4	1030.5	1035.9	1037.0	1038.2	1040.0	1039.4
7.5°	969.9	974.7	978.2	991.9	1006.8	1025.8	1041.8	1050.1	1051.3	1057.8	1060.2
10°	944.4	950.3	956.3	970.5	991.9	1020.4	1047.7	1067.9	1070.9	1086.3	1093.5
12.5°	943.2	949.1	956.9	972.3	997.2	1027.5	1060.8	1089.9	1095.3	1117.8	1132.7
15°	955.7	962.8	969.9	988.9	1015.7	1052.5	1088.1	1124.4	1129.7	1161.8	1177.8
17.5°	981.2	990.7	996.1	1015.1	1043.6	1084.6	1131.5	1173.1	1177.8	1215.2	1235.4
20°	1031.7	1043.0	1044.8	1060.2	1088.1	1132.1	1187.9	1239.6	1245.5	1288.3	1310.9
22.5°	1136.2	1152.3	1138.0	1145.7	1170.7	1214.6	1275.2	1340.6	1348.9	1397.6	1417.8
25°	1320.4	1342.9	1306.1	1293.0	1303.7	1349.5	1425.5	1508.0	1517.6	1556.8	1566.9
27.5°	1682.1	1653.0	1597.1	1542.5	1510.4	1536.6	1622.1	1724.2	1736.1	1774.1	1762.3
30°	2079.4	2053.9	1978.5	1857.3	1781.3	1777.1	1856.1	1970.1	1983.8	2020.0	1983.8
32.5°	2477.4	2453.0	2371.1	2222.0	2090.1	2024.8	2079.4	2205.9	2213.1	2236.2	2182.8
35°	2868.8	2843.9	2761.9	2609.2	2447.1	2298.6	2287.9	2430.5	2432.8	2457.2	2377.6
37.5°	3262.6	3241.8	3154.5	3004.8	2845.0	2640.1	2540.9	2643.1	2646.1	2669.8	2587.3
40°	3543.5	3552.4	3492.4	3376.6	3239.4	3015.5	2824.8	2869.4	2851.6	2891.4	2842.1
42.5°	3784.7	3802.5	3750.2	3692.0	3612.4	3415.2	3176.5	3168.7	3140.2	3161.6	3110.5
45°	3993.2	4008.0	3961.1	3947.4	3945.6	3807.2	3560.8	3514.4	3474.6	3470.5	3409.3
47.5°	4069.8	4098.3	4118.5	4164.2	4253.3	4195.1	3958.1	3886.2	3841.7	3809.0	3712.2
50°	4098.9	4129.2	4198.1	4331.1	4542.0	4566.9	4353.7	4272.9	4218.3	4158.9	4016.3
52.5°	4059.7	4113.7	4206.4	4430.3	4736.2	4865.1	4733.2	4662.5	4600.2	4503.4	4291.9
55°	3828.6	3882.7	4072.1	4429.1	4833.0	5074.1	5092.0	5060.5	4990.4	4837.8	4514.6
57.5°	3341.6	3421.8	3721.7	4278.2	4831.2	5254.1	5443.6	5466.2	5387.8	5169.2	4689.9
60°	2666.9	2775.5	3141.4	3943.9	4682.1	5351.5	5751.8	5864.7	5781.5	5495.9	4831.8
62.5°	1860.9	1986.8	2333.1	3420.0	4341.2	5281.4	5977.0	6185.4	6122.5	5788.1	4886.5
65°	1135.0	1175.4	1454.6	2691.2	3761.5	4988.0	6046.5	6358.9	6338.1	5966.9	4805.7
67.5°	756.1	790.0	870.1	1845.4	2919.9	4401.8	5880.1	6328.6	6334.5	5937.8	4509.9
70°	455.6	484.7	536.9	1073.3	1892.3	3484.1	5365.2	5942.5	5977.0	5548.7	3949.2
72.5°	187.7	207.3	254.8	486.4	980.0	2211.3	4272.3	5102.1	5182.2	4665.5	3030.9
75°	106.3	116.4	149.7	244.1	425.3	1030.5	2587.9	3621.9	3740.1	3215.7	1823.4
77.5°	70.7	75.4	96.8	158.0	239.4	351.6	1105.9	1887.0	2112.7	1756.3	789.4
80°	47.5	51.7	66.5	105.7	155.6	150.9	352.2	699.1	860.0	603.5	192.4
82.5°	32.1	32.7	47.5	69.5	98.6	73.1	103.9	217.4	273.2	174.6	73.1
85°	18.4	17.8	35.0	40.4	44.0	30.3	31.5	65.3	85.5	73.7	41.6
87.5°	2.4	3.6	13.7	10.7	5.9	6.5	6.5	11.3	16.6	17.8	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P882398

CATALOG NUMBER: NVN-SB2B-730-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5	1030.5
2.5°	1031.7	1031.1	1029.3	1027.5	1023.4	1021.0	1022.2	1021.0	1020.4	1021.0	1023.4
5°	1039.4	1037.6	1032.9	1026.9	1018.6	1008.5	1002.0	992.5	983.6	978.2	979.4
7.5°	1060.2	1058.4	1051.9	1035.3	1008.5	966.4	927.8	893.9	868.4	853.5	854.1
10°	1093.5	1090.5	1080.4	1043.6	973.5	881.4	804.8	741.3	699.7	680.1	678.3
12.5°	1132.7	1129.1	1111.3	1035.9	907.0	763.2	657.5	586.8	548.2	531.0	529.2
15°	1179.0	1174.2	1139.2	999.0	810.2	632.6	535.7	482.9	457.9	442.5	443.1
17.5°	1236.6	1228.3	1160.0	943.8	705.0	532.8	460.9	421.1	399.1	384.3	383.1
20°	1311.5	1297.8	1176.6	877.9	608.2	469.8	410.4	377.2	360.5	347.5	345.1
22.5°	1416.0	1396.4	1196.8	806.6	539.9	426.5	373.0	348.7	335.0	320.1	317.8
25°	1545.5	1522.3	1221.8	740.7	493.0	389.0	345.7	325.5	309.4	292.2	290.4
27.5°	1726.6	1685.0	1251.5	686.6	452.6	357.0	320.7	298.2	279.8	265.5	262.5
30°	1928.6	1860.3	1277.6	653.9	415.8	327.3	288.1	265.5	248.3	238.2	236.4
32.5°	2119.8	2027.2	1294.8	639.7	382.5	293.4	252.4	228.1	215.0	212.0	213.8
35°	2300.4	2178.0	1293.0	626.0	352.8	259.6	217.4	192.4	182.3	184.1	184.1
37.5°	2508.3	2339.0	1280.6	604.6	328.5	228.7	187.1	165.1	156.2	156.8	159.2
40°	2750.0	2524.9	1272.8	564.3	301.7	200.2	162.1	144.3	137.8	135.4	134.8
42.5°	3007.8	2704.9	1274.0	518.5	268.5	174.6	144.9	130.1	124.1	122.4	121.8
45°	3266.7	2876.5	1275.8	471.0	233.4	155.0	132.5	120.0	116.4	114.0	114.0
47.5°	3510.3	3022.6	1242.6	419.9	199.0	140.2	122.4	114.0	111.1	108.1	108.1
50°	3737.2	3120.0	1162.4	360.5	171.7	128.3	114.6	108.7	105.7	102.8	102.8
52.5°	3913.6	3135.5	1029.9	299.4	152.6	119.4	109.9	104.5	101.0	98.0	97.4
55°	3992.0	3038.7	841.6	242.3	137.8	111.7	105.1	99.8	95.6	92.7	92.1
57.5°	3971.8	2834.9	656.3	194.8	123.5	103.9	99.2	95.6	90.9	86.1	85.5
60°	3872.6	2562.3	494.8	162.1	110.5	95.6	92.7	89.7	83.2	76.0	74.8
62.5°	3700.9	2219.6	352.8	134.2	96.2	86.1	84.9	82.6	73.1	60.0	58.8
65°	3438.4	1803.2	237.6	111.7	82.6	75.4	76.0	71.9	59.4	44.5	43.4
67.5°	3054.7	1318.6	152.1	91.5	68.9	63.0	63.6	61.2	50.5	38.0	36.2
70°	2565.9	873.1	99.2	69.5	55.2	48.7	52.3	52.9	42.8	30.9	29.7
72.5°	1881.1	515.6	69.5	51.7	40.4	33.9	42.8	44.0	34.4	23.2	22.0
75°	1072.1	244.7	52.3	37.4	24.9	23.8	33.3	33.3	23.8	15.4	14.3
77.5°	450.2	102.2	36.8	24.4	14.3	13.7	22.6	20.8	11.9	7.1	7.1
80°	130.1	45.7	19.6	11.9	5.9	5.3	8.9	6.5	3.0	1.2	1.2
82.5°	51.1	20.2	7.7	4.8	2.4	2.4	1.2	0.0	0.0	0.0	0.0
85°	30.3	8.3	3.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)