

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: P882896

Luminaire Tested: **NVN-SB3A-727-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882896  
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-SB3A-727-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

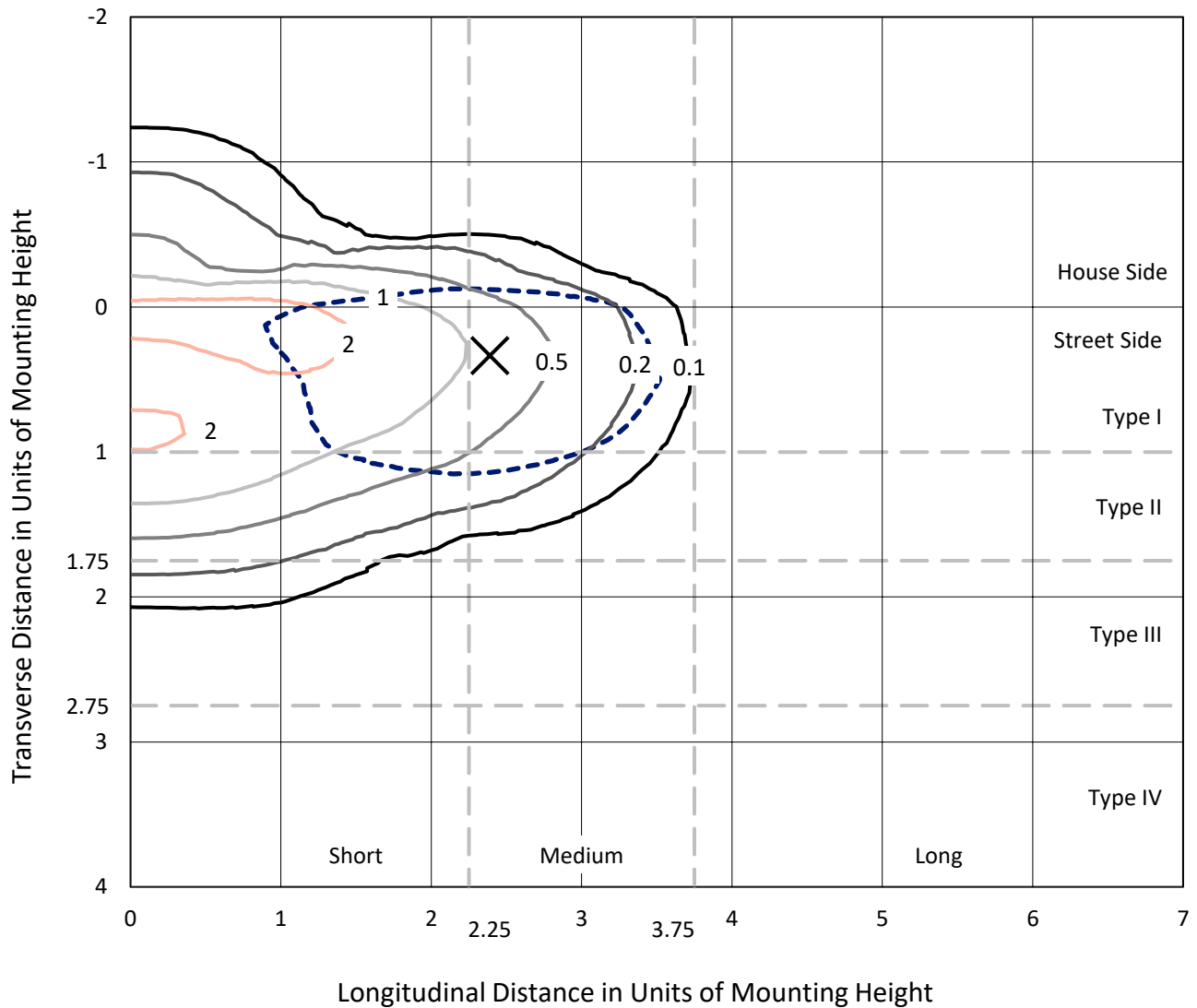
Lumens per Lamp: N/A  
Luminaire Lumens: 8904 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.717  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

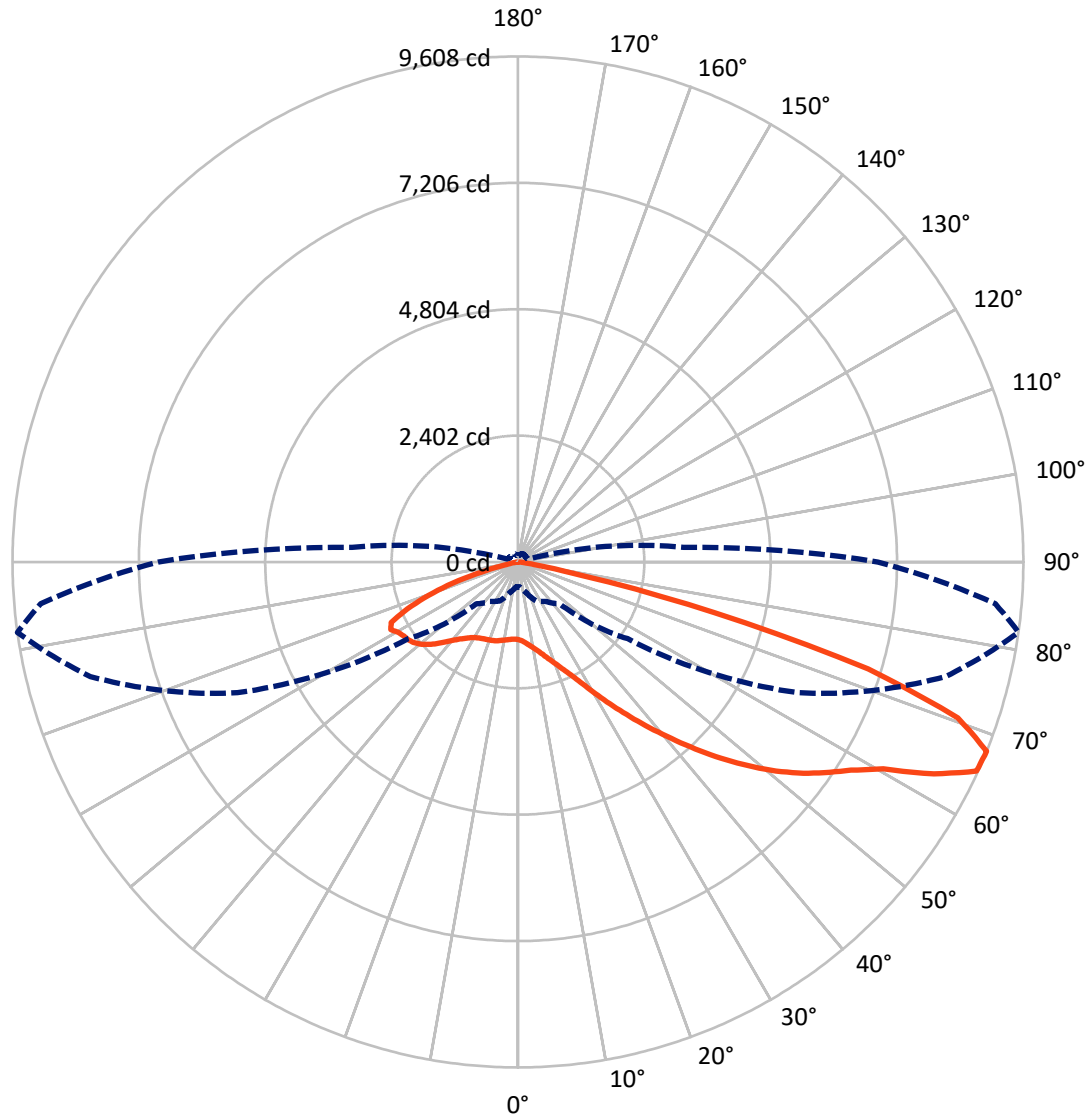
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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
<b>House Side</b>	Lumens	1612.9	0.0	1612.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7291.1	0.0	7291.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	8904.0	0.0	8904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	1.5
10°-20°	341.5	3.8
20°-30°	547.0	6.1
30°-40°	967.2	10.9
40°-50°	1694.7	19.0
50°-60°	2260.2	25.4
60°-70°	2104.2	23.6
70°-80°	807.6	9.1
80°-90°	50.2	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°	8904.0	100.0
0°-180°	8904.0	100.0

**Coefficient of Utilization**



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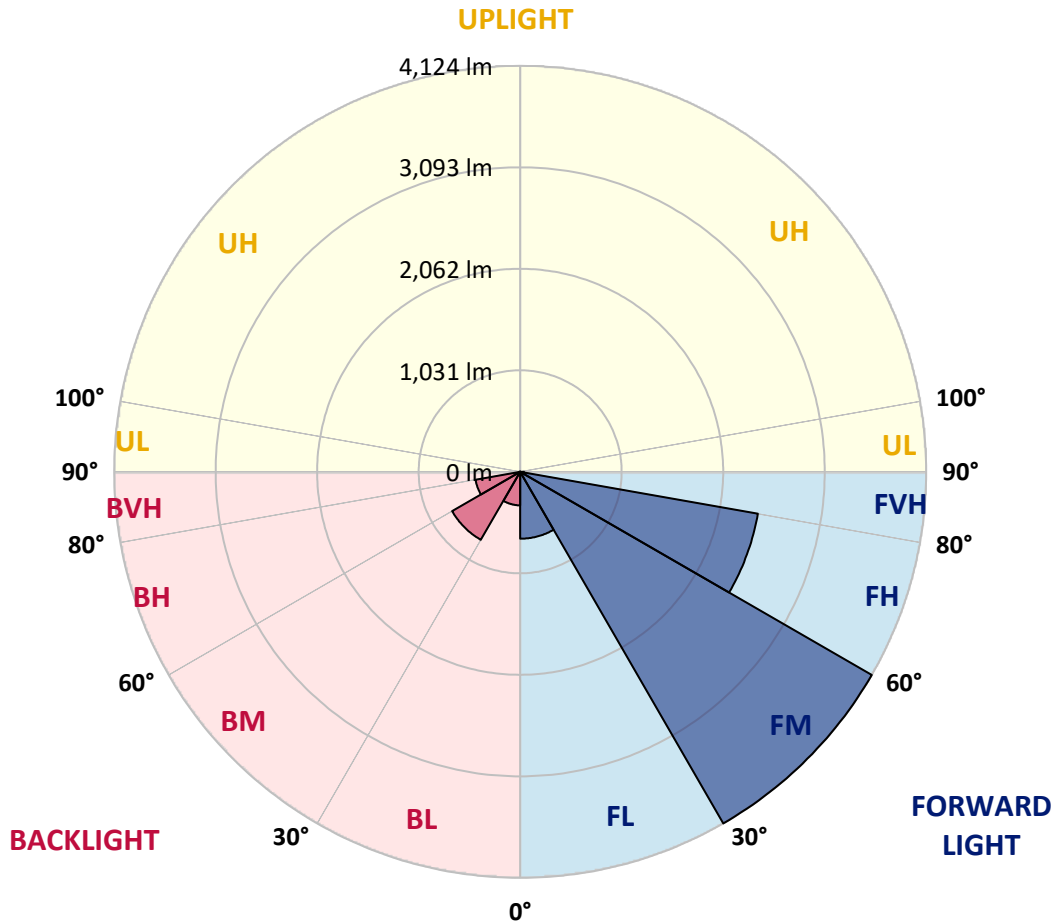
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.3	7.6			
FM (30°-60°)	4124.0	46.3			
FH (60°-80°)	2451.4	27.5			G2/5000
FVH (80°-90°)	36.5	0.4			G1/100
BL (0°-30°)	340.6	3.8	B1/500		
BM (30°-60°)	798.2	9.0	B1/1000		
BH (60°-80°)	460.3	5.2	B1/500		G1/500
BVH (80°-90°)	13.7	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°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1559.1	1568.0	1562.9	1560.4	1555.9	1549.5	1544.3	1528.3	1511.6	1500.7	1496.9
5°	1590.5	1599.5	1598.8	1601.4	1604.6	1606.5	1605.2	1587.3	1563.6	1545.0	1534.1
7.5°	1563.6	1573.8	1582.1	1595.0	1617.4	1641.1	1652.7	1648.8	1624.5	1598.8	1585.4
10°	1487.3	1498.2	1518.0	1548.2	1595.6	1646.9	1689.8	1709.7	1694.3	1666.1	1647.5
12.5°	1347.5	1358.4	1397.5	1462.9	1542.4	1631.5	1713.6	1766.8	1770.6	1742.4	1720.6
15°	1190.5	1201.4	1243.0	1325.1	1446.2	1589.2	1726.4	1827.0	1861.0	1836.7	1810.4
17.5°	1093.0	1102.6	1134.0	1200.1	1326.4	1504.6	1721.9	1891.1	1968.7	1949.5	1918.1
20°	1063.5	1071.9	1086.6	1132.8	1237.9	1416.8	1692.4	1951.4	2084.7	2073.8	2038.6
22.5°	1094.9	1102.6	1107.1	1127.6	1193.7	1359.1	1655.2	2012.9	2219.4	2220.7	2177.7
25°	1167.4	1175.1	1169.9	1182.8	1211.6	1341.1	1641.1	2085.4	2388.6	2402.7	2354.0
27.5°	1286.6	1287.3	1275.1	1274.4	1278.9	1368.0	1655.9	2163.0	2602.1	2628.4	2568.1
30°	1525.7	1516.1	1469.3	1418.7	1395.6	1448.8	1696.9	2254.6	2854.0	2900.8	2825.2
32.5°	1894.3	1880.2	1794.3	1673.2	1551.4	1578.9	1770.6	2359.1	3128.4	3213.0	3120.7
35°	2294.4	2290.5	2200.8	2020.6	1807.8	1764.2	1890.5	2496.3	3427.8	3562.4	3452.8
37.5°	2666.2	2664.3	2613.0	2400.8	2141.8	2022.6	2082.8	2675.8	3748.3	3943.2	3813.7
40°	3006.0	3011.7	2960.4	2770.7	2509.8	2354.0	2344.4	2897.6	4104.7	4358.0	4204.1
42.5°	3299.6	3306.0	3254.0	3113.7	2873.3	2720.7	2665.5	3169.4	4452.8	4803.5	4621.4
45°	3498.9	3538.7	3531.0	3418.8	3246.4	3088.0	3051.5	3510.5	4849.7	5276.0	5062.5
47.5°	3555.3	3591.9	3649.6	3665.0	3559.8	3404.1	3447.6	3921.4	5251.0	5749.1	5506.1
50°	3416.2	3450.2	3570.1	3729.7	3802.8	3754.7	3832.9	4361.8	5661.9	6220.9	5941.4
52.5°	3141.9	3176.5	3327.8	3580.4	3878.4	4029.7	4219.5	4795.8	6060.0	6667.7	6353.6
55°	2745.0	2781.6	2975.8	3261.7	3734.2	4143.2	4541.9	5229.2	6424.8	7069.7	6725.4
57.5°	2205.3	2232.2	2434.1	2834.2	3371.4	4030.4	4779.8	5702.3	6768.4	7464.6	7094.0
60°	1437.3	1461.0	1695.6	2141.8	2770.0	3653.4	4827.2	6229.9	7224.8	7978.1	7590.9
62.5°	955.8	971.9	1111.0	1438.6	1950.8	2929.7	4549.6	6651.1	7894.1	8871.7	8442.8
65°	655.8	671.8	810.9	1039.2	1260.3	1937.9	3751.5	6595.3	8500.5	9581.4	9074.3
67.5°	468.0	481.4	599.4	814.8	912.2	1125.7	2543.1	5882.4	8413.3	9608.3	9108.3
70°	335.3	343.0	440.4	634.7	725.0	676.3	1414.2	4499.0	7366.5	8872.3	8414.6
72.5°	234.6	237.2	305.8	483.4	584.0	493.6	673.1	2999.5	5571.5	6963.9	6523.5
75°	159.0	162.2	205.8	354.5	468.6	376.9	356.4	1608.4	3270.7	3854.7	3455.3
77.5°	97.4	98.7	132.7	242.3	350.7	287.2	229.5	681.5	1265.5	1242.4	1059.0
80°	55.1	55.1	84.6	150.7	239.1	185.3	160.9	289.8	400.7	351.9	310.3
82.5°	30.8	31.4	61.5	93.6	158.3	109.6	88.5	134.0	173.1	153.2	133.3
85°	12.8	14.1	37.8	44.2	75.6	54.5	35.9	56.4	64.1	57.1	41.7
87.5°	1.3	1.9	11.5	8.3	9.0	10.9	5.1	10.9	9.0	9.0	6.4
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°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1484.7	1475.1	1450.7	1422.5	1385.3	1367.4	1343.0	1326.4	1312.3	1313.5	1300.7
5°	1513.6	1489.2	1434.7	1366.8	1282.1	1221.9	1157.8	1113.5	1077.6	1069.9	1052.6
7.5°	1553.3	1514.8	1419.3	1296.9	1153.9	1045.6	948.8	886.6	842.4	828.3	814.2
10°	1604.6	1548.8	1399.4	1209.0	1003.3	865.4	761.6	712.9	682.7	672.5	664.8
12.5°	1664.2	1587.9	1373.2	1102.0	848.1	715.4	649.4	625.0	615.4	612.2	610.3
15°	1739.2	1636.6	1333.4	975.1	716.7	623.8	595.5	592.3	593.6	592.3	591.7
17.5°	1828.3	1689.8	1268.7	844.3	628.2	577.0	566.7	569.3	572.5	571.8	570.5
20°	1925.8	1742.4	1186.0	728.3	568.0	543.6	537.9	540.4	543.0	541.7	541.1
22.5°	2036.7	1798.8	1094.3	637.9	527.6	512.9	506.4	507.1	507.1	504.5	503.2
25°	2169.4	1861.0	998.1	573.8	496.8	485.3	477.6	475.0	471.2	463.5	462.2
27.5°	2327.7	1927.0	905.8	528.9	472.5	461.6	452.6	446.2	436.6	423.7	422.5
30°	2505.9	2007.2	827.6	500.7	453.2	442.3	432.1	422.5	408.4	392.3	391.0
32.5°	2715.6	2093.1	770.6	482.1	435.9	424.4	412.2	400.7	385.3	369.3	369.9
35°	2965.6	2196.9	737.2	469.3	422.5	407.1	393.6	380.8	369.3	355.2	353.9
37.5°	3236.7	2307.2	727.0	462.8	413.5	389.8	374.4	365.4	364.1	355.8	355.2
40°	3533.6	2438.0	734.7	459.0	403.9	373.1	356.4	354.5	357.7	343.0	343.6
42.5°	3847.7	2593.1	747.5	454.5	390.4	356.4	340.4	340.4	337.8	317.3	317.3
45°	4187.4	2772.0	760.3	443.6	374.4	339.8	327.6	323.1	312.2	292.3	291.7
47.5°	4529.8	2954.0	769.9	423.7	355.2	325.7	314.8	304.5	288.5	270.5	269.9
50°	4854.8	3117.5	759.7	394.3	333.4	312.2	300.7	286.6	269.2	257.1	255.1
52.5°	5145.2	3259.2	716.1	359.6	310.3	298.1	287.8	273.1	259.0	246.2	244.9
55°	5397.8	3373.9	639.1	326.9	289.8	285.9	275.7	257.1	237.8	226.9	225.7
57.5°	5640.1	3461.1	543.0	300.0	271.2	272.5	257.1	240.4	222.4	210.9	209.6
60°	5962.5	3577.8	445.5	275.0	251.3	255.1	238.5	226.3	203.9	189.1	187.2
62.5°	6478.0	3759.2	353.9	244.2	228.2	229.5	222.4	207.7	180.8	163.5	162.2
65°	6887.0	3692.5	278.9	210.9	201.9	203.9	203.9	187.8	159.0	139.1	137.2
67.5°	6840.8	3161.7	222.4	178.2	176.9	178.2	182.7	169.2	141.0	125.0	122.4
70°	6301.7	2514.9	178.2	148.1	153.9	150.7	163.5	154.5	126.9	110.9	109.0
72.5°	5142.0	1811.7	135.9	122.4	118.0	123.1	147.4	139.1	105.8	87.8	85.9
75°	3004.7	966.7	101.3	96.8	85.3	102.6	130.8	118.6	80.8	64.7	62.8
77.5°	978.3	337.2	74.4	71.2	63.5	82.7	111.5	100.0	66.0	51.3	49.4
80°	262.2	101.9	50.6	46.8	41.0	61.5	88.5	79.5	47.4	33.3	32.7
82.5°	105.1	43.0	29.5	26.3	22.4	42.3	69.9	64.1	35.3	21.2	21.2
85°	34.0	14.1	10.9	8.3	10.3	26.3	41.7	43.6	25.0	10.9	8.3
87.5°	4.5	1.9	1.9	2.6	1.9	4.5	12.8	12.2	7.1	1.3	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)