

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: P965100

Luminaire Tested: **NVN-SB3D-735-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-735-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

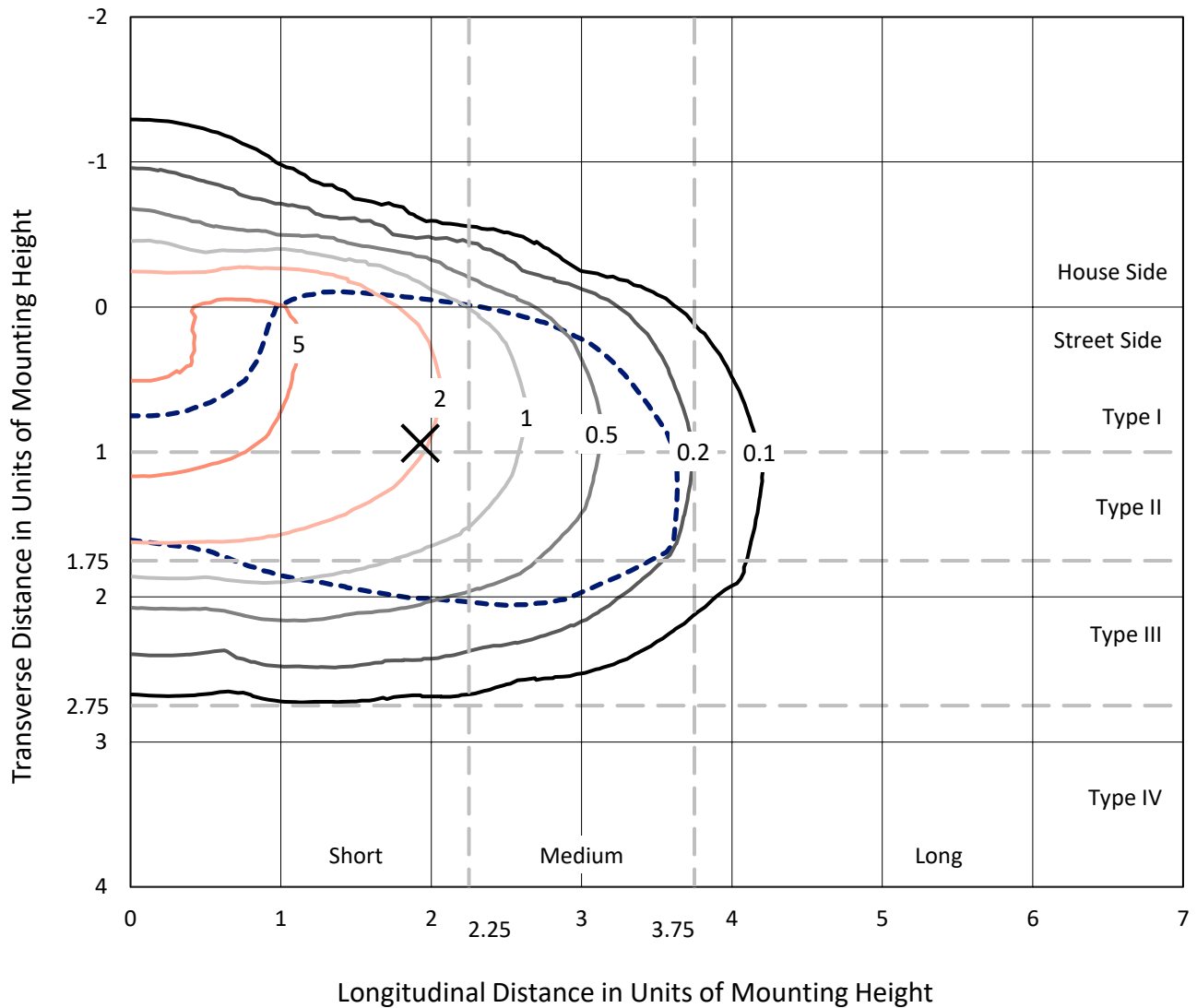
Lumens per Lamp: N/A  
Luminaire Lumens: 24543.6 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
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

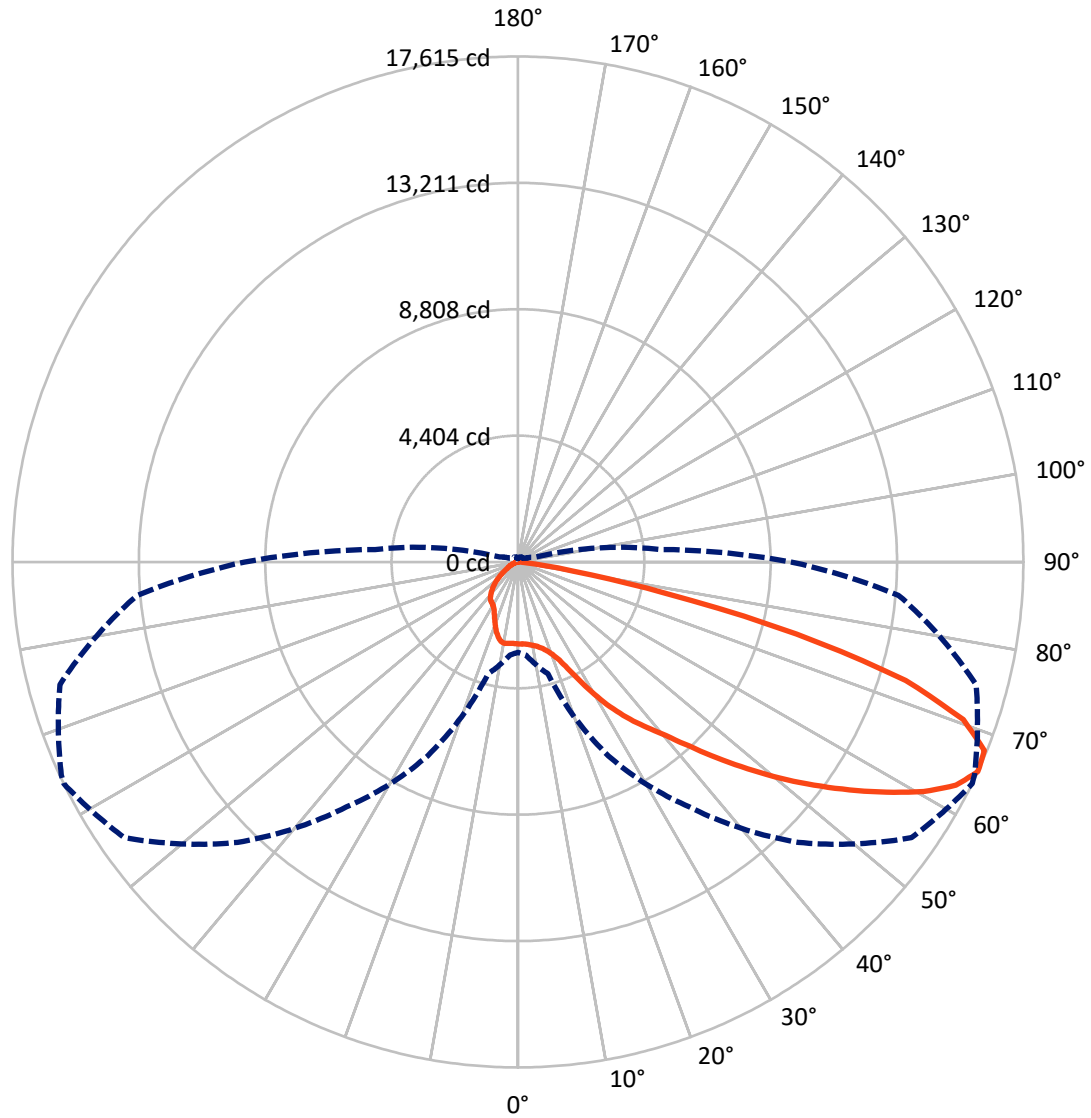
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - N/A

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### 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	3282.2	0.0	3282.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	21261.4	0.0	21261.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	24543.6	0.0	24543.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.4	1.1
10°-20°	714.3	2.9
20°-30°	1353.6	5.5
30°-40°	2739.1	11.2
40°-50°	4666.1	19.0
50°-60°	6345.5	25.9
60°-70°	5958.7	24.3
70°-80°	2387.3	9.7
80°-90°	115.7	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°	24543.6	100.0
0°-180°	24543.6	100.0

**Coefficient of Utilization**



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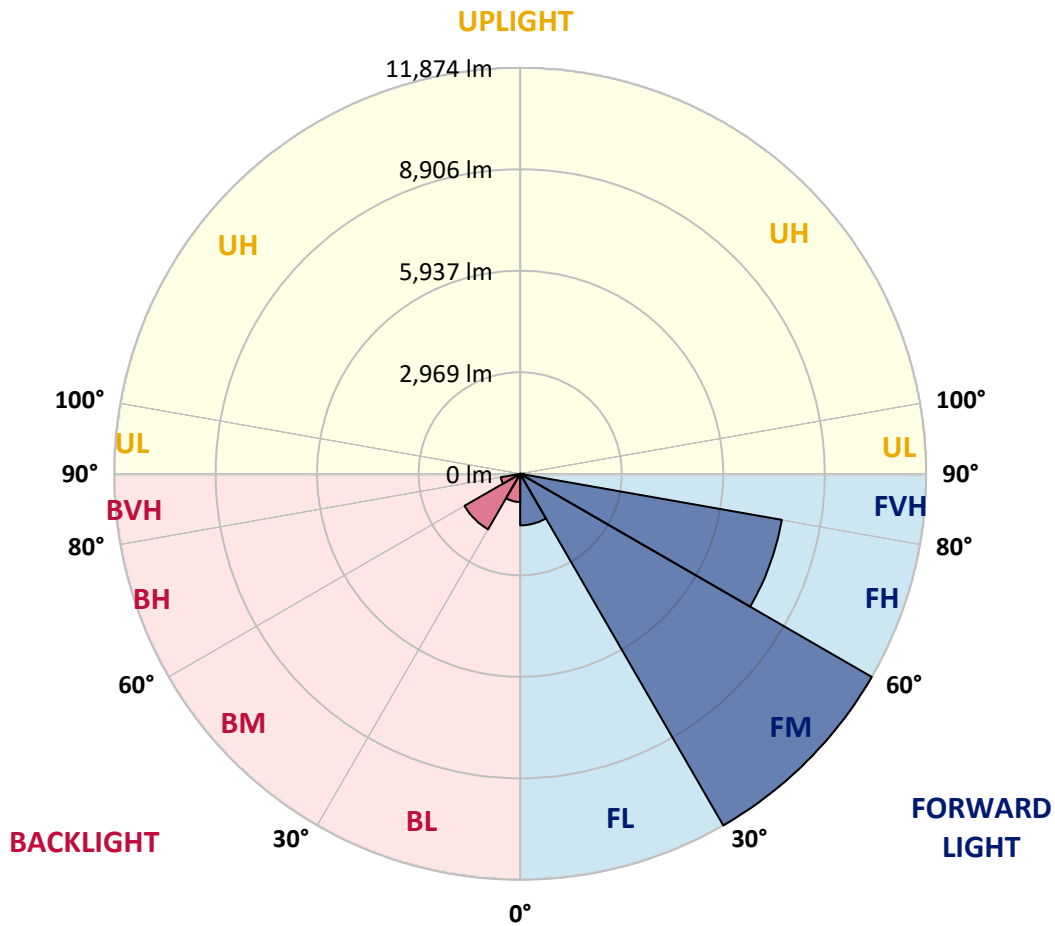
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.3	6.1			
FM (30°-60°)	11874.2	48.4			
FH (60°-80°)	7769.9	31.7			G4/12000
FVH (80°-90°)	110.0	0.4			G2/225
BL (0°-30°)	824.1	3.4	B2/1000		
BM (30°-60°)	1876.4	7.6	B2/2500		
BH (60°-80°)	576.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7
2.5°	2844.8	2864.6	2859.6	2854.7	2853.0	2856.4	2858.0	2856.4	2856.4	2856.4	2858.0
5°	2790.5	2807.0	2807.0	2818.4	2834.9	2854.7	2869.5	2872.8	2876.0	2881.0	2879.3
7.5°	2686.8	2700.1	2709.9	2747.7	2788.8	2841.5	2886.0	2909.0	2912.2	2930.4	2936.9
10°	2616.1	2632.5	2649.0	2688.5	2747.7	2826.7	2902.4	2958.4	2966.6	3009.3	3029.1
12.5°	2612.8	2629.2	2650.6	2693.4	2762.6	2846.4	2938.6	3019.2	3034.0	3096.5	3137.6
15°	2647.4	2667.2	2686.8	2739.5	2813.5	2915.5	3014.3	3114.7	3129.4	3218.3	3262.7
17.5°	2718.1	2744.4	2759.2	2811.9	2890.9	3004.4	3134.3	3249.6	3262.7	3366.4	3422.4
20°	2858.0	2889.3	2894.2	2936.9	3014.3	3136.0	3290.7	3433.9	3450.3	3568.7	3631.3
22.5°	3147.6	3192.0	3152.5	3173.9	3243.0	3364.8	3532.6	3713.6	3736.5	3871.5	3927.5
25°	3657.6	3720.1	3618.1	3582.0	3611.6	3738.3	3948.8	4177.5	4203.8	4312.5	4340.5
27.5°	4659.6	4579.0	4424.3	4272.9	4184.2	4256.5	4493.4	4776.4	4809.4	4914.7	4881.8
30°	5760.4	5689.6	5480.7	5145.0	4934.3	4922.9	5141.7	5457.6	5495.4	5595.8	5495.4
32.5°	6862.8	6795.2	6568.2	6155.2	5790.0	5609.0	5760.4	6110.8	6130.5	6194.7	6046.7
35°	7947.0	7877.9	7650.9	7228.0	6778.8	6367.5	6337.9	6732.7	6739.4	6806.8	6586.3
37.5°	9037.9	8980.3	8738.4	8323.8	7881.2	7313.6	7038.8	7321.8	7330.0	7395.9	7167.1
40°	9816.1	9840.8	9674.7	9353.8	8973.8	8353.4	7825.3	7948.7	7899.3	8009.6	7873.0
42.5°	10484.1	10533.5	10388.7	10227.4	10007.0	9460.8	8799.3	8777.9	8699.0	8758.2	8616.7
45°	11061.7	11102.8	10972.8	10935.0	10930.1	10546.6	9863.9	9735.6	9625.3	9613.8	9444.2
47.5°	11273.9	11352.9	11408.9	11535.6	11782.4	11621.1	10964.6	10765.5	10642.1	10551.7	10283.4
50°	11354.5	11438.5	11629.3	11997.8	12582.0	12651.1	12060.4	11836.6	11685.3	11520.7	11125.9
52.5°	11246.0	11395.6	11652.3	12272.6	13120.0	13477.0	13111.8	12916.0	12743.2	12475.1	11889.3
55°	10605.9	10755.6	11280.5	12269.4	13388.2	14056.2	14105.5	14018.4	13824.2	13401.4	12506.3
57.5°	9256.8	9478.9	10309.8	11851.5	13383.2	14554.8	15079.6	15142.1	14924.9	14319.5	12991.7
60°	7387.6	7688.7	8702.2	10925.1	12970.2	14824.6	15933.5	16246.1	16015.8	15224.4	13384.9
62.5°	5154.8	5503.7	6462.9	9473.9	12025.8	14630.4	16557.1	17134.6	16960.3	16033.9	13536.3
65°	3144.3	3256.1	4029.5	7455.0	10419.9	13817.6	16749.6	17615.1	17557.5	16529.1	13312.5
67.5°	2094.5	2188.3	2410.4	5112.1	8088.5	12193.7	16289.0	17531.2	17547.6	16448.6	12493.1
70°	1262.0	1342.6	1487.4	2973.1	5242.1	9651.6	14862.4	16461.7	16557.1	15370.8	10939.9
72.5°	519.9	574.2	705.8	1347.6	2714.8	6125.6	11835.0	14133.5	14355.6	12924.2	8396.2
75°	294.5	322.5	414.6	676.2	1178.0	2854.7	7168.7	10033.3	10360.8	8907.9	5051.2
77.5°	195.8	209.0	268.2	437.7	663.1	974.1	3063.6	5227.3	5852.5	4865.3	2186.6
80°	131.6	143.2	184.3	292.8	431.1	417.9	975.7	1936.5	2382.5	1671.7	533.1
82.5°	88.9	90.5	131.6	192.5	273.2	202.3	287.9	602.2	756.9	483.7	202.3
85°	51.0	49.4	97.1	111.9	121.8	83.9	87.2	181.0	237.0	204.0	115.2
87.5°	6.6	9.8	37.8	29.6	16.5	18.1	18.1	31.3	46.0	49.4	24.7
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°	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7	2854.7
2.5°	2858.0	2856.4	2851.3	2846.4	2834.9	2828.4	2831.7	2828.4	2826.7	2828.4	2834.9
5°	2879.3	2874.4	2861.3	2844.8	2821.7	2793.8	2775.7	2749.4	2724.7	2709.9	2713.2
7.5°	2936.9	2932.0	2913.9	2867.8	2793.8	2677.0	2570.0	2476.3	2405.5	2364.4	2366.0
10°	3029.1	3020.9	2992.9	2890.9	2696.8	2441.7	2229.5	2053.4	1938.2	1884.0	1879.0
12.5°	3137.6	3127.8	3078.5	2869.5	2512.5	2114.3	1821.4	1625.6	1518.6	1471.0	1466.0
15°	3266.1	3252.8	3155.8	2767.5	2244.2	1752.3	1484.1	1337.6	1268.5	1225.8	1227.4
17.5°	3425.7	3402.6	3213.4	2614.5	1953.0	1475.9	1276.7	1166.6	1105.7	1064.6	1061.3
20°	3632.9	3595.1	3259.4	2431.8	1684.8	1301.4	1136.9	1044.8	998.8	962.6	955.9
22.5°	3922.5	3868.2	3315.4	2234.4	1495.6	1181.3	1033.3	965.9	927.9	886.8	880.3
25°	4281.2	4217.1	3384.4	2051.7	1365.6	1077.7	957.6	901.7	857.2	809.5	804.6
27.5°	4783.1	4667.8	3466.8	1902.0	1253.8	988.8	888.5	825.9	775.0	735.4	727.2
30°	5342.4	5153.2	3539.1	1811.5	1151.8	906.6	798.0	735.4	687.8	659.8	654.9
32.5°	5872.2	5615.6	3586.9	1772.0	1059.6	812.8	699.3	631.8	595.6	587.4	592.3
35°	6372.4	6033.5	3582.0	1734.2	977.3	719.0	602.2	533.1	505.1	510.0	510.0
37.5°	6948.3	6479.3	3547.3	1675.0	909.9	633.4	518.2	457.5	432.8	434.4	441.0
40°	7618.0	6994.4	3526.0	1563.1	835.9	554.5	449.2	399.9	381.7	375.2	373.5
42.5°	8332.0	7493.0	3529.3	1436.4	743.7	483.7	401.5	360.3	343.9	339.0	337.3
45°	9049.4	7968.5	3534.2	1304.7	646.7	429.5	367.0	332.4	322.5	315.9	315.9
47.5°	9724.0	8373.2	3442.1	1163.3	551.1	388.3	339.0	315.9	307.7	299.4	299.4
50°	10352.5	8643.0	3219.9	998.8	475.5	355.4	317.5	301.1	292.8	284.6	284.6
52.5°	10841.2	8685.7	2853.0	829.2	422.8	330.7	304.4	289.6	279.7	271.5	269.9
55°	11058.4	8417.6	2331.5	671.3	381.7	309.3	291.2	276.4	264.9	256.7	255.0
57.5°	11002.5	7853.2	1818.1	539.7	342.2	287.9	274.8	264.9	251.7	238.6	237.0
60°	10727.6	7098.0	1370.5	449.2	306.1	264.9	256.7	248.5	230.3	210.6	207.4
62.5°	10252.2	6148.7	977.3	371.9	266.5	238.6	235.2	228.7	202.3	166.2	162.9
65°	9524.9	4995.2	658.2	309.3	228.7	209.0	210.6	199.1	164.5	123.4	120.1
67.5°	8462.0	3652.7	421.2	253.4	190.9	174.5	176.1	169.4	139.8	105.3	100.3
70°	7107.9	2418.7	274.8	192.5	153.0	134.9	144.8	146.5	118.5	85.6	82.3
72.5°	5210.8	1428.1	192.5	143.2	111.9	93.8	118.5	121.8	95.4	64.2	60.9
75°	2969.8	677.8	144.8	103.6	69.1	65.8	92.1	92.1	65.8	42.7	39.5
77.5°	1247.2	283.0	102.0	67.4	39.5	37.8	62.5	57.6	32.9	19.8	19.8
80°	360.3	126.7	54.3	32.9	16.5	14.8	24.7	18.1	8.2	3.3	3.3
82.5°	141.4	56.0	21.4	13.1	6.6	6.6	3.3	0.0	0.0	0.0	0.0
85°	83.9	23.1	9.8	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	4.9	3.3	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)