

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: P969971

Luminaire Tested: **NVN-SB6A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-827-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

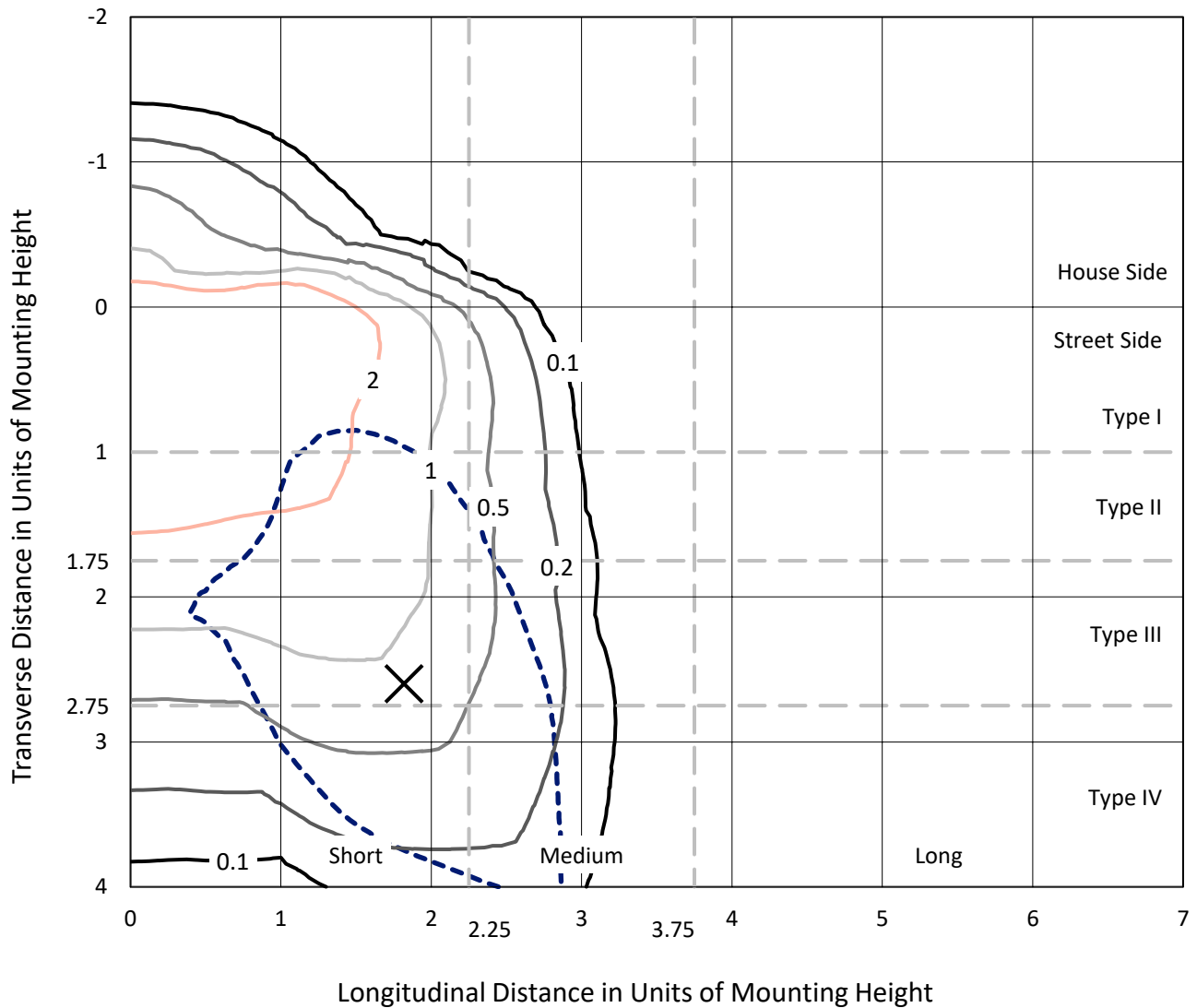
Lumens per Lamp: N/A  
Luminaire Lumens: 18356.7 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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

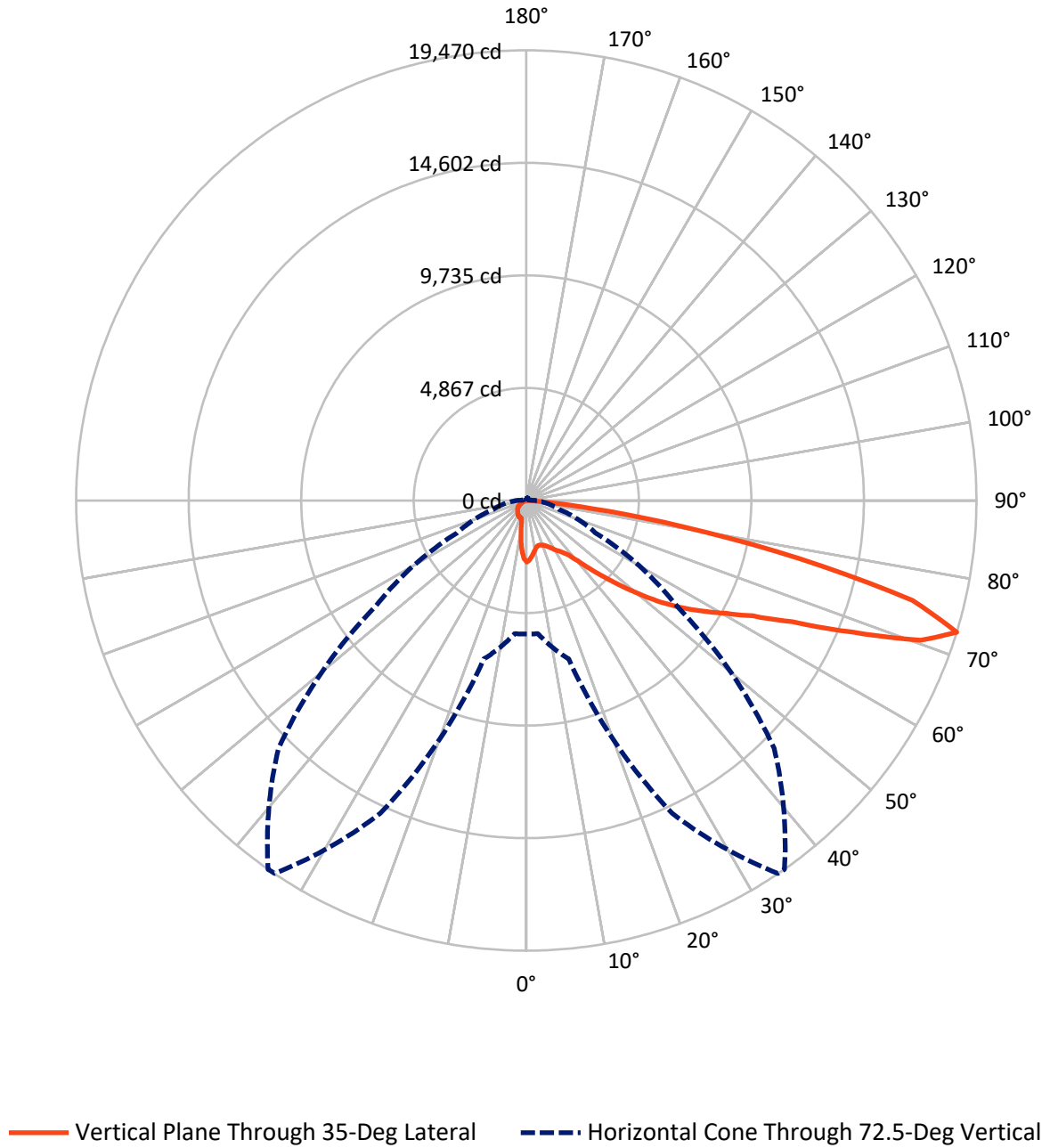
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2066.0	0.0	2066.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	16290.8	0.0	16290.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	18356.7	0.0	18356.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.6	1.2
10°-20°	511.4	2.8
20°-30°	830.8	4.5
30°-40°	1386.2	7.6
40°-50°	2622.8	14.3
50°-60°	4167.6	22.7
60°-70°	5155.6	28.1
70°-80°	3204.7	17.5
80°-90°	259.0	1.4
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°	18356.7	100.0
0°-180°	18356.7	100.0

**Coefficient of Utilization**



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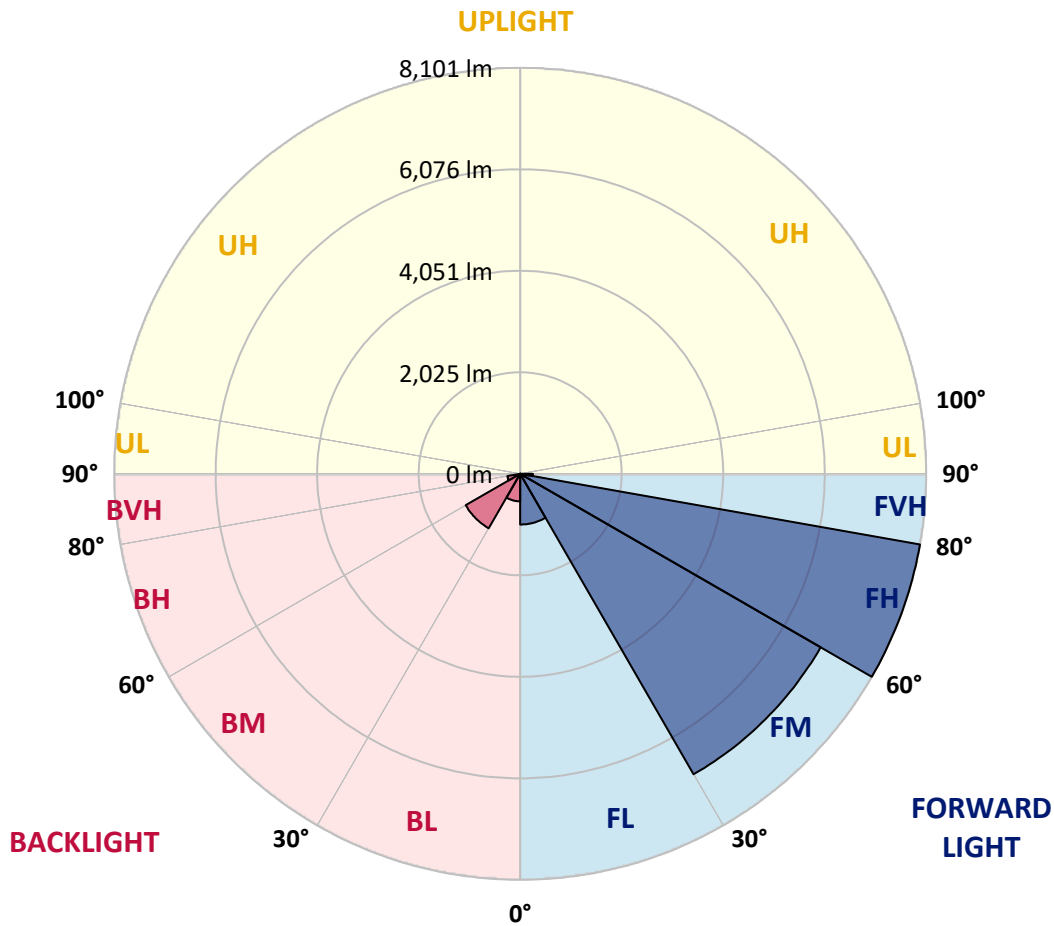
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.9	5.5			
FM (30°-60°)	6922.3	37.7			
FH (60°-80°)	8101.1	44.1			G4/12000
FVH (80°-90°)	255.5	1.4			G3/500
BL (0°-30°)	549.0	3.0	B2/1000		
BM (30°-60°)	1254.2	6.8	B2/2500		
BH (60°-80°)	259.2	1.4	B1/500		G1/500
BVH (80°-90°)	3.5	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5
2.5°	2542.1	2563.6	2567.7	2574.4	2574.4	2582.5	2595.9	2614.8	2645.7	2661.8	2672.6
5°	2343.0	2359.2	2379.4	2395.5	2426.5	2430.5	2483.0	2534.1	2605.3	2659.2	2696.8
7.5°	2142.7	2161.5	2188.4	2227.4	2267.7	2279.9	2359.2	2445.3	2558.3	2659.2	2722.4
10°	2001.4	2002.7	2026.9	2066.0	2130.6	2145.3	2242.2	2364.6	2505.8	2643.1	2746.6
12.5°	1922.1	1931.5	1942.3	1971.8	2033.7	2043.1	2146.7	2290.6	2453.3	2633.6	2774.9
15°	1922.1	1928.8	1935.5	1950.4	2000.1	2008.2	2099.6	2243.5	2426.5	2637.6	2820.6
17.5°	1942.3	1953.0	1947.6	1965.1	2017.6	2022.9	2103.6	2230.1	2425.1	2663.2	2890.5
20°	1990.7	1998.7	1988.0	1998.7	2051.2	2062.0	2145.3	2255.6	2448.0	2707.5	2977.9
22.5°	2067.3	2071.4	2045.8	2053.9	2107.7	2121.1	2218.0	2328.3	2503.2	2778.9	3095.0
25°	2164.2	2172.3	2133.2	2142.7	2193.8	2209.9	2321.5	2437.2	2590.6	2877.1	3244.2
27.5°	2275.8	2279.9	2246.2	2244.9	2310.8	2333.6	2446.7	2571.7	2707.5	3000.8	3432.5
30°	2403.6	2415.7	2383.4	2378.0	2461.4	2480.3	2591.9	2737.2	2879.7	3186.4	3700.2
32.5°	2504.5	2513.9	2495.1	2508.5	2593.2	2608.0	2768.1	2971.2	3150.1	3450.0	4064.7
35°	2649.7	2655.2	2612.1	2636.3	2733.2	2770.8	3008.9	3299.4	3490.4	3780.9	4540.9
37.5°	3175.7	3175.7	2992.7	2873.0	2965.8	2999.5	3338.4	3712.3	3910.1	4224.8	5140.8
40°	3903.3	3891.2	3623.6	3378.8	3366.6	3432.5	3807.9	4232.8	4452.1	4757.4	5816.0
42.5°	4679.4	4660.6	4296.1	4054.0	4013.6	4036.4	4349.9	4874.5	5097.7	5407.1	6542.3
45°	5368.1	5362.7	5029.2	4703.6	4631.0	4703.6	5026.4	5625.0	5785.1	6110.5	7267.2
47.5°	5945.1	5945.1	5701.7	5489.2	5451.5	5494.5	5942.4	6457.6	6442.7	6859.7	7973.5
50°	6609.6	6604.2	6372.8	6281.4	6320.4	6380.9	6997.0	7334.6	7123.3	7595.5	8604.3
52.5°	7075.0	7107.2	7027.9	7013.0	7212.1	7317.1	8067.6	8192.7	7732.7	8293.6	9076.4
55°	7443.4	7481.2	7572.6	7676.2	8059.6	8196.7	9104.7	9006.5	8242.4	8898.8	9348.1
57.5°	7965.4	7911.6	8052.8	8257.3	8877.3	9042.8	10109.4	9774.5	8652.7	9389.8	9377.7
60°	8598.9	8606.9	8631.2	8889.4	9693.7	9906.3	11099.3	10500.8	8916.4	9691.1	9049.5
62.5°	9360.2	9372.3	9422.1	9818.9	10790.0	10990.4	12153.8	11095.3	9037.4	9606.3	8202.2
65°	9307.7	9358.9	9914.3	11271.5	12456.5	12654.2	13384.6	11512.3	8854.5	8831.6	6678.2
67.5°	8479.2	8562.5	9492.0	13006.6	14969.0	15189.6	14872.2	11594.3	8064.9	6867.8	4356.7
70°	7392.4	7422.0	8539.7	14566.9	17878.4	18101.7	16203.8	10691.8	6120.0	3830.7	1951.7
72.5°	5772.9	5779.7	7091.1	14928.7	19457.5	19469.6	15158.7	7937.1	3291.4	1471.5	677.9
75°	4123.9	4083.6	4749.3	12106.8	17118.4	17255.7	11364.3	3723.1	1257.6	695.4	337.6
77.5°	2211.2	2255.6	2687.4	7179.8	11825.6	12059.7	6200.6	1073.4	640.2	473.4	223.2
80°	683.3	721.0	1101.6	3287.3	6698.4	6839.6	2298.7	477.4	446.6	337.6	146.6
82.5°	215.2	223.2	513.8	1381.4	2780.2	2844.8	665.8	270.4	305.3	223.2	86.1
85°	61.9	63.2	228.7	515.2	687.4	700.8	187.0	105.0	174.9	138.6	44.4
87.5°	6.8	21.5	86.1	86.1	60.6	59.1	20.2	22.9	49.8	17.5	8.1
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°	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5
2.5°	2665.9	2667.3	2649.7	2620.1	2587.9	2561.0	2527.3	2500.5	2481.6	2476.2	2485.6
5°	2684.7	2675.2	2625.5	2535.4	2427.8	2335.1	2231.4	2149.4	2095.6	2072.8	2080.8
7.5°	2713.0	2686.0	2577.2	2399.5	2193.8	2010.8	1825.2	1681.3	1589.9	1544.2	1550.8
10°	2737.2	2683.3	2496.4	2203.2	1888.5	1611.4	1361.2	1187.7	1090.8	1045.1	1046.4
12.5°	2760.0	2682.0	2391.5	1970.5	1544.2	1205.2	972.5	886.4	859.5	850.0	847.4
15°	2803.1	2686.0	2259.7	1704.2	1201.1	910.6	825.8	824.5	829.9	827.2	825.8
17.5°	2862.3	2690.1	2110.4	1421.7	926.7	803.0	799.0	811.1	819.2	815.1	813.7
20°	2938.9	2706.2	1951.7	1142.0	796.2	776.1	785.5	796.2	803.0	796.2	794.9
22.5°	3046.5	2734.5	1778.2	917.3	754.6	759.9	768.0	780.1	786.9	777.5	776.1
25°	3178.3	2778.9	1607.3	797.7	734.4	741.1	753.3	766.7	774.8	765.4	764.0
27.5°	3349.2	2850.1	1450.0	770.7	714.2	718.2	735.7	755.9	766.7	754.6	754.6
30°	3596.6	2967.2	1314.2	782.8	702.1	692.7	716.9	745.2	757.3	746.5	745.2
32.5°	3924.8	3132.6	1230.7	801.7	696.7	663.1	685.9	722.3	742.5	735.7	735.7
35°	4355.2	3384.1	1198.4	823.2	692.7	632.2	648.3	687.4	722.3	729.0	729.0
37.5°	4877.2	3733.9	1207.9	832.6	680.6	606.6	614.7	648.3	694.0	715.6	721.0
40°	5470.3	4141.4	1261.7	823.2	667.2	585.1	586.4	612.0	652.3	684.6	695.4
42.5°	6082.3	4617.5	1361.2	788.2	655.1	566.3	562.2	579.7	606.6	629.5	638.9
45°	6664.8	5107.2	1459.4	739.7	640.2	547.5	538.0	544.8	550.1	559.5	564.9
47.5°	7173.2	5451.5	1431.1	695.4	620.0	525.9	509.7	507.1	491.0	489.6	488.2
50°	7524.2	5526.8	1271.1	651.0	590.5	501.7	476.1	460.0	431.7	418.3	419.6
52.5°	7635.8	5229.5	1038.4	606.6	542.0	469.4	433.1	407.5	372.6	360.5	359.2
55°	7487.9	4647.1	829.9	552.8	474.8	426.4	386.0	352.4	324.2	309.3	309.3
57.5°	7126.1	3906.1	656.4	489.6	403.5	377.9	337.6	304.0	279.7	265.0	262.3
60°	6526.2	3101.6	519.2	414.3	344.3	325.5	283.8	262.3	240.8	223.2	219.2
62.5°	5615.6	2214.0	407.5	328.2	287.8	266.3	242.1	226.0	200.4	176.2	172.2
65°	4382.2	1354.4	314.8	240.8	231.3	220.6	205.8	191.0	160.1	135.8	131.8
67.5°	2764.1	641.5	224.6	181.6	183.0	177.5	170.9	158.7	135.8	114.3	111.6
70°	1217.3	310.7	147.9	138.6	135.8	135.8	141.2	137.1	115.7	95.5	91.4
72.5°	414.3	166.8	110.3	105.0	98.2	96.9	118.4	114.3	92.8	74.0	69.9
75°	216.6	111.6	80.7	75.3	59.1	71.2	94.2	88.8	65.9	48.4	44.4
77.5°	141.2	79.3	55.1	48.4	33.6	47.0	69.9	61.9	39.1	24.2	21.5
80°	88.8	52.5	32.3	22.9	16.1	25.5	37.6	26.9	14.8	5.3	4.0
82.5°	47.0	26.9	12.1	8.1	6.8	8.1	9.4	6.8	2.7	0.0	0.0
85°	18.9	9.4	4.0	2.7	1.3	0.0	2.7	1.3	0.0	0.0	0.0
87.5°	6.8	1.3	0.0	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)