

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: P883490

Luminaire Tested: **NVN-SB3D-835-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-835-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

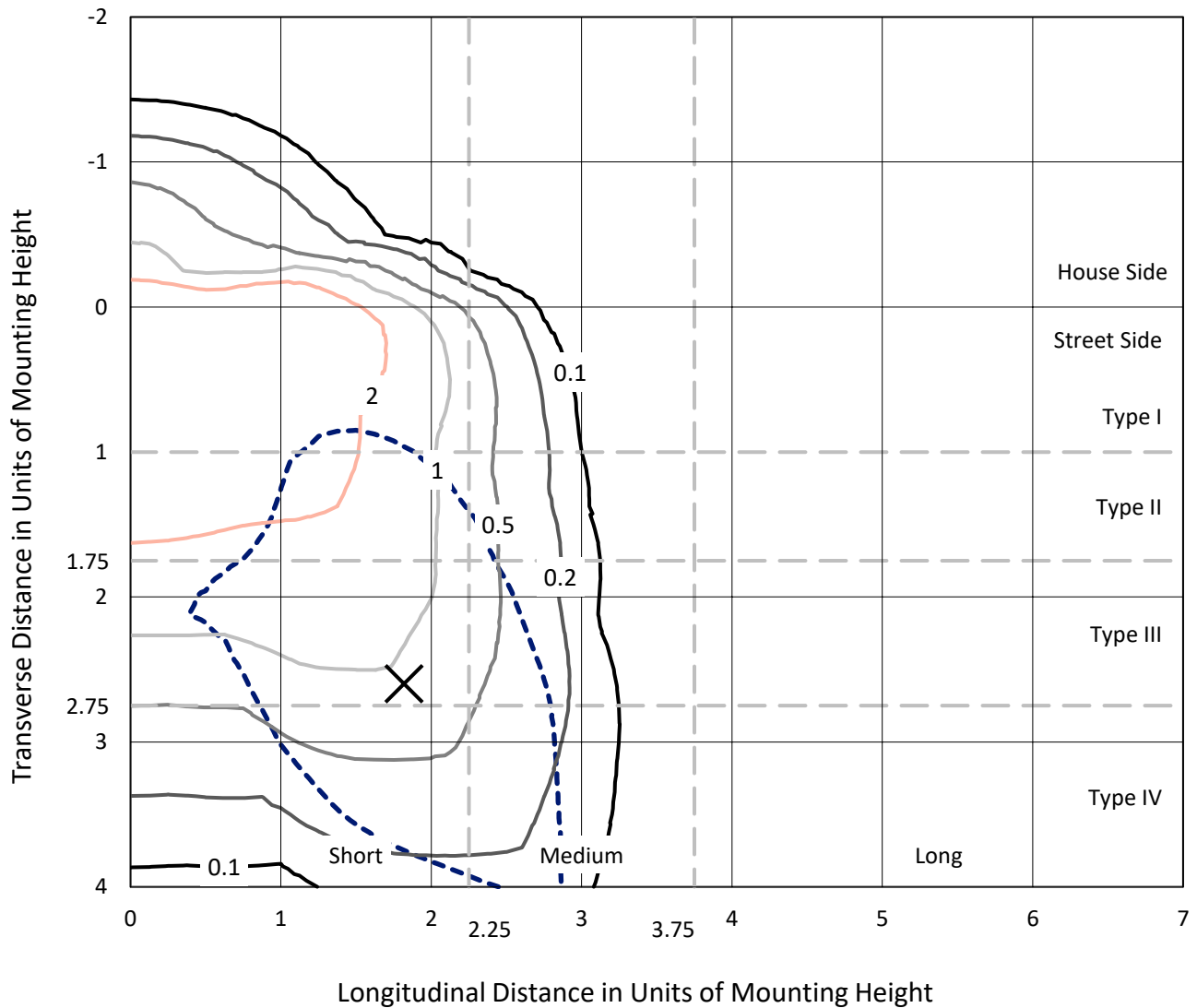
Lumens per Lamp: N/A  
Luminaire Lumens: 19499 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.84  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

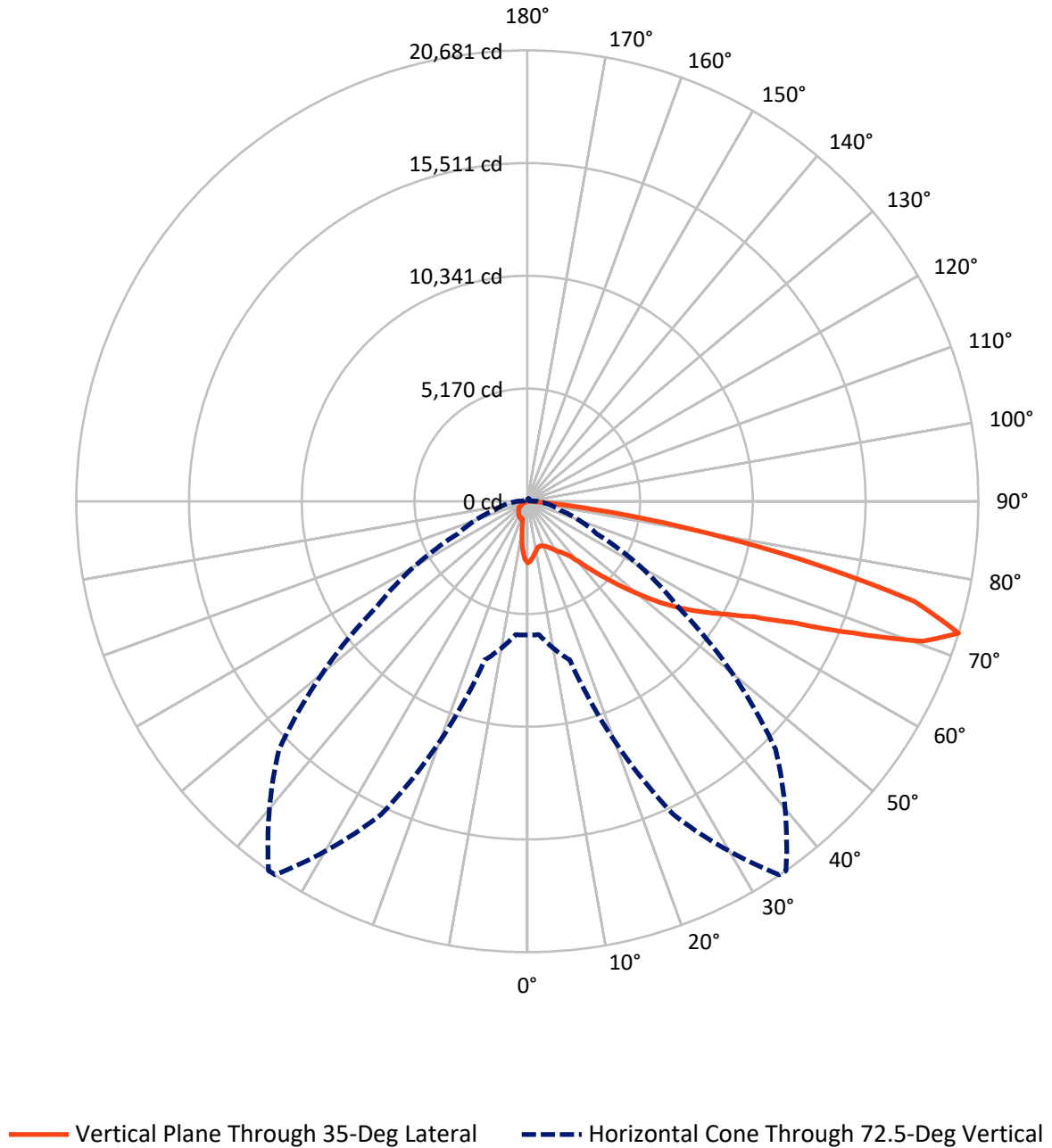
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	2194.5	0.0	2194.5
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	17304.5	0.0	17304.5
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	19499.0	0.0	19499.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.2	1.2
10°-20°	543.3	2.8
20°-30°	882.5	4.5
30°-40°	1472.5	7.6
40°-50°	2786.0	14.3
50°-60°	4426.9	22.7
60°-70°	5476.4	28.1
70°-80°	3404.1	17.5
80°-90°	275.1	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°	19499.0	100.0
0°-180°	19499.0	100.0

**Coefficient of Utilization**



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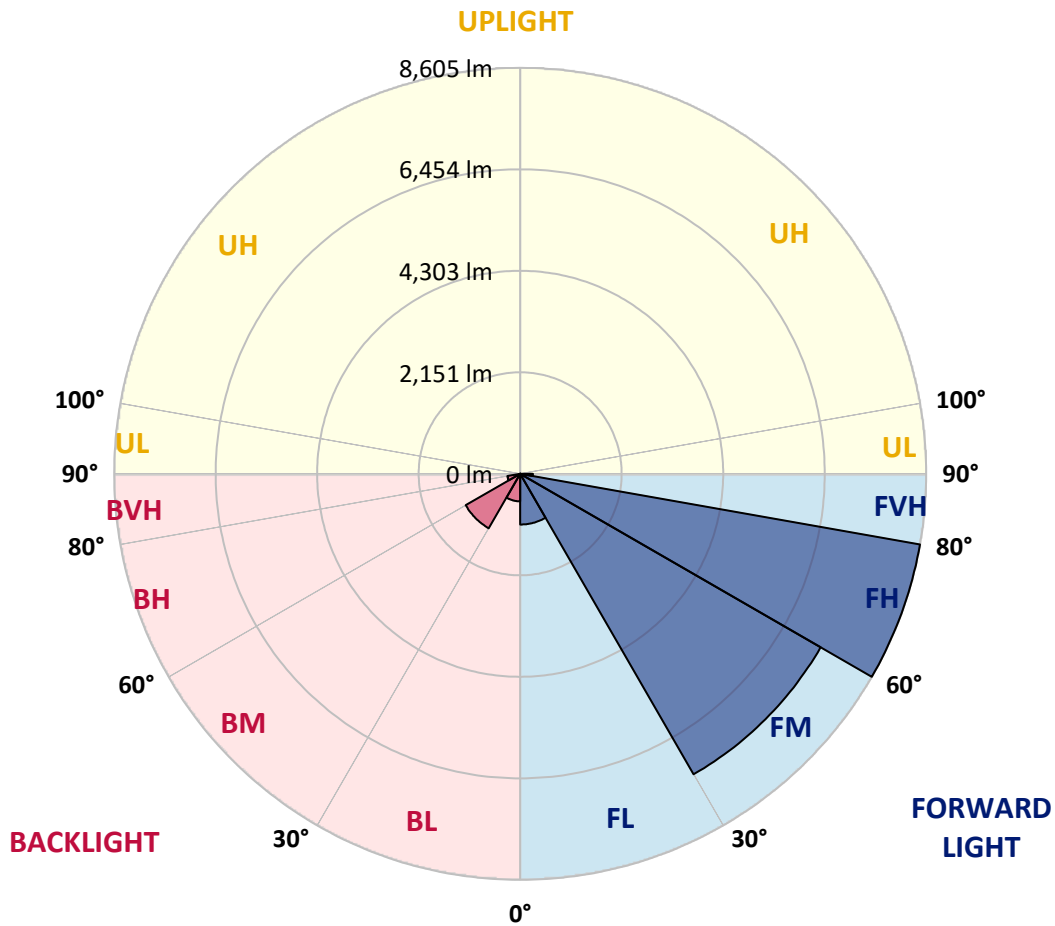
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.9	5.5			
FM (30°-60°)	7353.1	37.7			
FH (60°-80°)	8605.1	44.1			G4/12000
FVH (80°-90°)	271.4	1.4			G3/500
BL (0°-30°)	583.1	3.0	B2/1000		
BM (30°-60°)	1332.3	6.8	B2/2500		
BH (60°-80°)	275.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.7	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°	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1
2.5°	2700.3	2723.2	2727.5	2734.6	2734.6	2743.2	2757.5	2777.5	2810.3	2827.5	2838.9
5°	2488.9	2506.0	2527.5	2544.6	2577.5	2581.7	2637.5	2691.8	2767.5	2824.6	2864.6
7.5°	2276.0	2296.0	2324.6	2366.0	2408.9	2421.7	2506.0	2597.5	2717.5	2824.6	2891.8
10°	2126.0	2127.4	2153.1	2194.6	2263.1	2278.8	2381.7	2511.7	2661.8	2807.5	2917.5
12.5°	2041.7	2051.7	2063.1	2094.5	2160.3	2170.3	2280.3	2433.2	2606.0	2797.5	2947.5
15°	2041.7	2048.8	2056.0	2071.7	2124.5	2133.1	2230.3	2383.1	2577.5	2801.8	2996.1
17.5°	2063.1	2074.5	2068.8	2087.4	2143.1	2148.8	2234.6	2368.9	2576.0	2828.9	3070.4
20°	2114.5	2123.1	2111.7	2123.1	2178.8	2190.3	2278.8	2396.0	2600.3	2876.1	3163.2
22.5°	2196.0	2200.3	2173.1	2181.7	2238.8	2253.1	2356.0	2473.2	2658.9	2951.8	3287.5
25°	2298.9	2307.4	2266.0	2276.0	2330.3	2347.4	2466.0	2588.9	2751.8	3056.1	3446.1
27.5°	2417.4	2421.7	2386.0	2384.6	2454.6	2478.9	2598.9	2731.8	2876.1	3187.5	3646.2
30°	2553.2	2566.0	2531.7	2526.0	2614.6	2634.6	2753.2	2907.5	3058.9	3384.7	3930.5
32.5°	2660.3	2670.3	2650.3	2664.6	2754.6	2770.3	2940.4	3156.1	3346.1	3664.7	4317.7
35°	2814.6	2820.3	2774.6	2800.3	2903.2	2943.2	3196.1	3504.7	3707.6	4016.2	4823.4
37.5°	3373.3	3373.3	3179.0	3051.8	3150.4	3186.1	3546.1	3943.3	4153.4	4487.7	5460.7
40°	4146.2	4133.4	3849.0	3589.0	3576.2	3646.2	4044.8	4496.3	4729.1	5053.5	6177.9
42.5°	4970.6	4950.6	4563.4	4306.2	4263.4	4287.7	4620.6	5177.8	5414.9	5743.6	6949.4
45°	5702.1	5696.4	5342.1	4996.3	4919.2	4996.3	5339.2	5975.0	6145.0	6490.8	7719.5
47.5°	6315.1	6315.1	6056.5	5830.7	5790.7	5836.4	6312.2	6859.4	6843.7	7286.6	8469.6
50°	7020.9	7015.1	6769.4	6672.2	6713.7	6778.0	7432.3	7790.9	7566.6	8068.1	9139.7
52.5°	7515.2	7549.5	7465.2	7449.5	7660.9	7772.4	8569.6	8702.5	8213.9	8809.6	9641.2
55°	7906.7	7946.7	8043.8	8153.9	8561.0	8706.8	9671.2	9566.9	8755.4	9452.6	9929.8
57.5°	8461.0	8403.9	8553.9	8771.1	9429.7	9605.5	10738.5	10382.7	9191.1	9974.1	9961.2
60°	9134.0	9142.5	9168.3	9442.6	10297.0	10522.7	11790.0	11154.2	9471.2	10294.1	9612.6
62.5°	9942.6	9955.5	10008.4	10429.8	11461.4	11674.3	12910.1	11785.7	9599.7	10204.1	8712.5
65°	9886.9	9941.2	10531.3	11972.9	13231.6	13441.6	14217.4	12228.6	9405.4	9381.1	7093.7
67.5°	9006.8	9095.4	10082.7	13816.0	15900.5	16134.8	15797.6	12315.8	8566.8	7295.2	4627.7
70°	7852.4	7883.8	9071.1	15473.3	18990.9	19228.1	17212.1	11357.1	6500.8	4069.1	2073.1
72.5°	6132.2	6139.3	7532.3	15857.6	20668.2	20681.1	16102.0	8431.0	3496.1	1563.0	720.1
75°	4380.5	4337.7	5044.9	12860.1	18183.6	18329.4	12071.5	3954.8	1335.9	738.7	358.6
77.5°	2348.9	2396.0	2854.6	7626.6	12561.5	12810.1	6586.5	1140.1	680.1	502.9	237.2
80°	725.8	765.8	1170.1	3491.9	7115.2	7265.2	2441.7	507.2	474.3	358.6	155.7
82.5°	228.6	237.2	545.8	1467.3	2953.2	3021.8	707.2	287.2	324.3	237.2	91.4
85°	65.7	67.2	242.9	547.2	730.1	744.4	198.6	111.4	185.7	147.2	47.1
87.5°	7.1	22.9	91.4	91.4	64.3	62.9	21.4	24.3	52.9	18.6	8.6
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°	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1	2826.1
2.5°	2831.8	2833.2	2814.6	2783.2	2748.9	2720.3	2684.6	2656.0	2636.0	2630.3	2640.3
5°	2851.8	2841.8	2788.9	2693.2	2578.9	2480.3	2370.3	2283.1	2226.0	2201.7	2210.3
7.5°	2881.8	2853.2	2737.5	2548.9	2330.3	2136.0	1938.8	1785.9	1688.8	1640.2	1647.3
10°	2907.5	2850.3	2651.8	2340.3	2006.0	1711.6	1445.9	1261.6	1158.7	1110.1	1111.6
12.5°	2931.8	2848.9	2540.3	2093.1	1640.2	1280.2	1033.0	941.5	913.0	903.0	900.1
15°	2977.5	2853.2	2400.3	1810.2	1275.9	967.3	877.2	875.8	881.5	878.7	877.2
17.5°	3040.4	2857.5	2241.7	1510.2	984.4	853.0	848.7	861.5	870.1	865.8	864.4
20°	3121.8	2874.6	2073.1	1213.0	845.8	824.4	834.4	845.8	853.0	845.8	844.4
22.5°	3236.1	2904.6	1888.8	974.4	801.5	807.2	815.8	828.7	835.8	825.8	824.4
25°	3376.1	2951.8	1707.4	847.2	780.1	787.2	800.1	814.4	823.0	813.0	811.5
27.5°	3557.6	3027.5	1540.2	818.7	758.7	763.0	781.5	803.0	814.4	801.5	801.5
30°	3820.5	3151.8	1395.9	831.5	745.8	735.8	761.5	791.5	804.4	793.0	791.5
32.5°	4169.1	3327.5	1307.3	851.5	740.1	704.4	728.7	767.2	788.7	781.5	781.5
35°	4626.3	3594.7	1273.0	874.4	735.8	671.5	688.7	730.1	767.2	774.4	774.4
37.5°	5180.6	3966.2	1283.0	884.4	722.9	644.4	652.9	688.7	737.2	760.1	765.8
40°	5810.7	4399.1	1340.2	874.4	708.7	621.5	622.9	650.1	692.9	727.2	738.7
42.5°	6460.8	4904.9	1445.9	837.2	695.8	601.5	597.2	615.8	644.4	668.7	678.7
45°	7079.4	5424.9	1550.2	785.8	680.1	581.5	571.5	578.6	584.4	594.4	600.1
47.5°	7619.5	5790.7	1520.2	738.7	658.7	558.6	541.5	538.6	521.5	520.1	518.6
50°	7992.4	5870.7	1350.2	691.5	627.2	532.9	505.8	488.6	458.6	444.3	445.8
52.5°	8111.0	5555.0	1103.0	644.4	575.8	498.6	460.1	432.9	395.8	382.9	381.5
55°	7953.8	4936.3	881.5	587.2	504.3	452.9	410.0	374.3	344.3	328.6	328.6
57.5°	7569.5	4149.1	697.2	520.1	428.6	401.5	358.6	322.9	297.2	281.5	278.6
60°	6932.3	3294.7	551.5	440.1	365.8	345.8	301.5	278.6	255.7	237.2	232.9
62.5°	5965.0	2351.7	432.9	348.6	305.8	282.9	257.2	240.0	212.9	187.2	182.9
65°	4654.9	1438.7	334.3	255.7	245.7	234.3	218.6	202.9	170.0	144.3	140.0
67.5°	2936.1	681.5	238.6	192.9	194.3	188.6	181.5	168.6	144.3	121.4	118.6
70°	1293.0	330.0	157.2	147.2	144.3	144.3	150.0	145.7	122.9	101.4	97.2
72.5°	440.1	177.2	117.2	111.4	104.3	102.9	125.7	121.4	98.6	78.6	74.3
75°	230.0	118.6	85.7	80.0	62.9	75.7	100.0	94.3	70.0	51.4	47.1
77.5°	150.0	84.3	58.6	51.4	35.7	50.0	74.3	65.7	41.4	25.7	22.9
80°	94.3	55.7	34.3	24.3	17.1	27.1	40.0	28.6	15.7	5.7	4.3
82.5°	50.0	28.6	12.9	8.6	7.1	8.6	10.0	7.1	2.9	0.0	0.0
85°	20.0	10.0	4.3	2.9	1.4	0.0	2.9	1.4	0.0	0.0	0.0
87.5°	7.1	1.4	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)