

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: P968390

Luminaire Tested: **NVN-SB5B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P968390  
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-SB5B-827-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

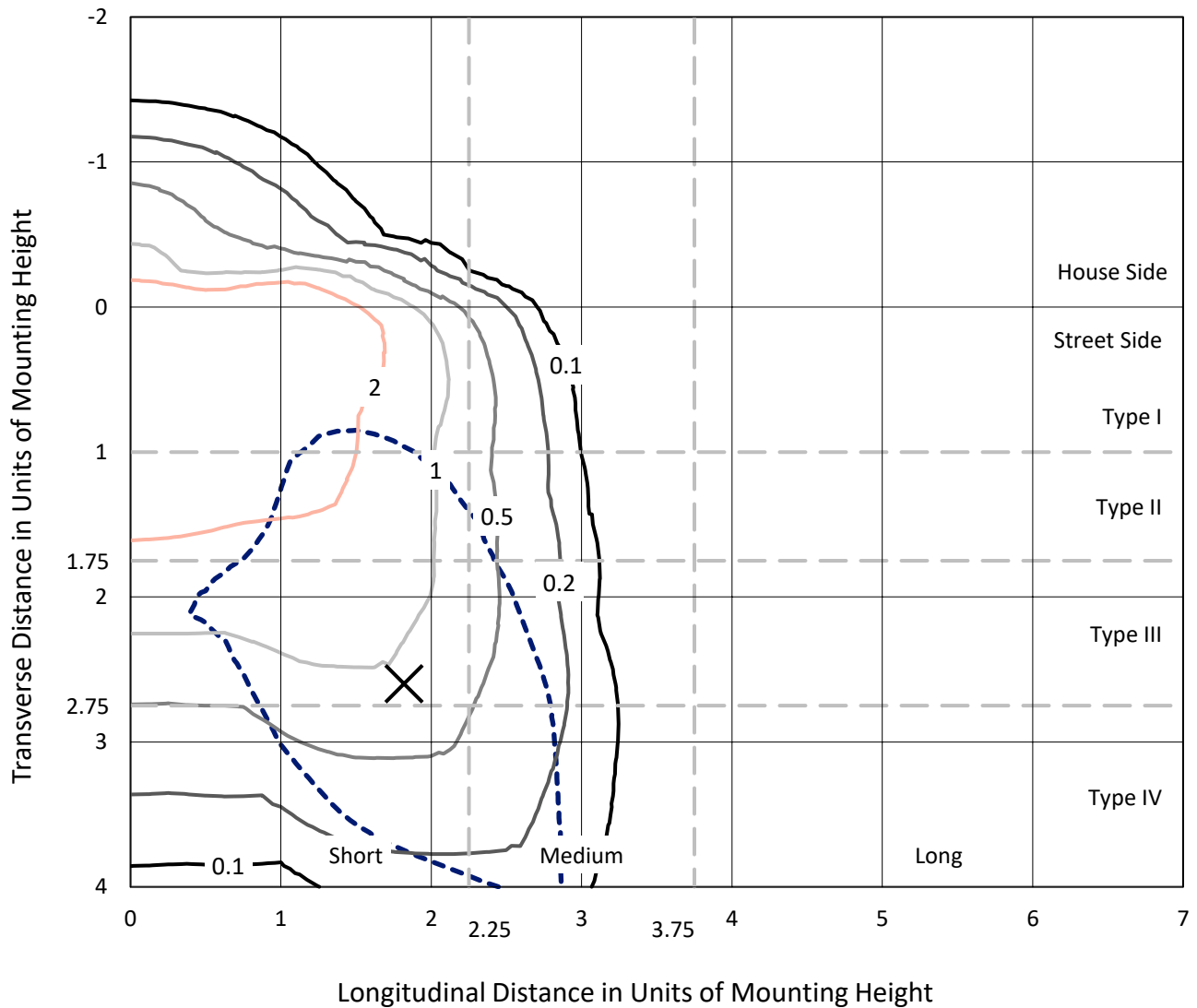
Lumens per Lamp: N/A  
Luminaire Lumens: 19196.2 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): 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

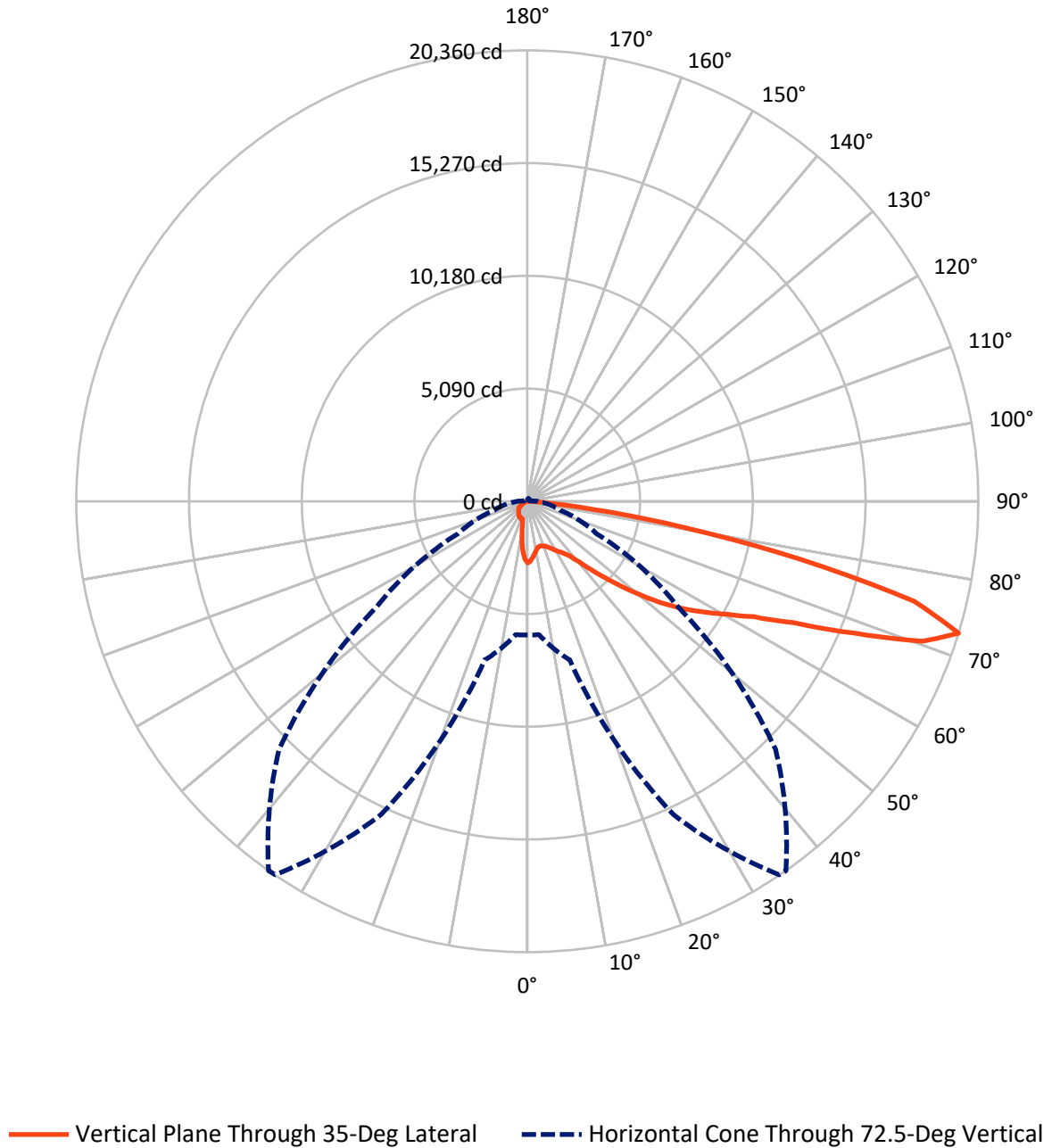
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	2160.4	0.0	2160.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	17035.7	0.0	17035.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	19196.2	0.0	19196.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.6	1.2
10°-20°	534.8	2.8
20°-30°	868.8	4.5
30°-40°	1449.6	7.6
40°-50°	2742.7	14.3
50°-60°	4358.1	22.7
60°-70°	5391.3	28.1
70°-80°	3351.3	17.5
80°-90°	270.8	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°	19196.2	100.0
0°-180°	19196.2	100.0

**Coefficient of Utilization**



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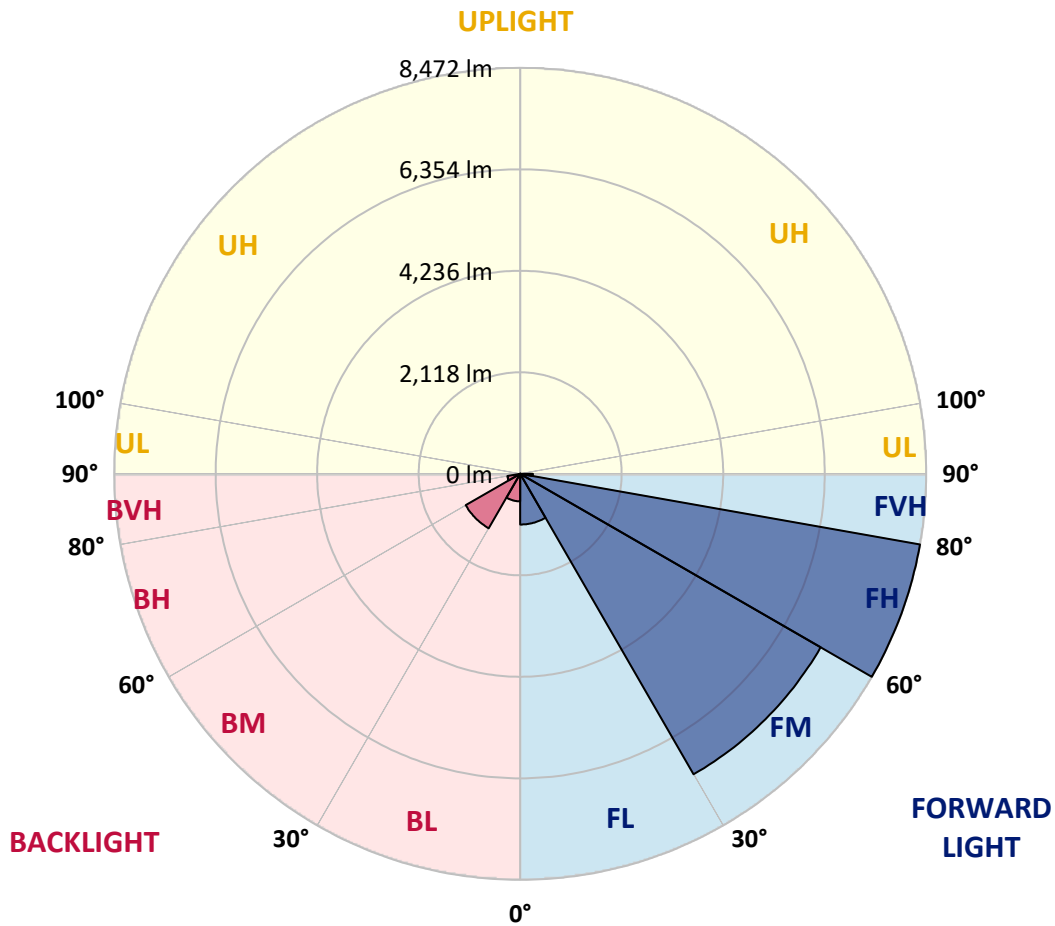
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.2	5.5			
FM (30°-60°)	7238.9	37.7			
FH (60°-80°)	8471.5	44.1			G4/12000
FVH (80°-90°)	267.1	1.4			G3/500
BL (0°-30°)	574.1	3.0	B2/1000		
BM (30°-60°)	1311.6	6.8	B2/2500		
BH (60°-80°)	271.1	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°	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2
2.5°	2658.4	2680.9	2685.1	2692.2	2692.2	2700.6	2714.6	2734.4	2766.7	2783.6	2794.9
5°	2450.3	2467.1	2488.2	2505.1	2537.4	2541.7	2596.5	2649.9	2724.6	2780.7	2820.2
7.5°	2240.6	2260.3	2288.5	2329.2	2371.4	2384.1	2467.1	2557.2	2675.2	2780.7	2846.8
10°	2092.9	2094.4	2119.7	2160.5	2227.9	2243.4	2344.7	2472.7	2620.4	2763.9	2872.2
12.5°	2009.9	2019.9	2031.0	2062.0	2126.7	2136.6	2244.9	2395.3	2565.6	2754.1	2901.8
15°	2009.9	2017.0	2024.1	2039.5	2091.5	2100.0	2195.7	2346.1	2537.4	2758.3	2949.5
17.5°	2031.0	2042.3	2036.7	2055.0	2109.9	2115.5	2199.9	2332.1	2536.1	2785.0	3022.7
20°	2081.7	2090.2	2078.9	2090.2	2145.0	2156.3	2243.4	2358.8	2559.9	2831.4	3114.2
22.5°	2161.9	2166.1	2139.4	2147.8	2204.1	2218.1	2319.4	2434.8	2617.6	2906.0	3236.5
25°	2263.2	2271.6	2230.8	2240.6	2294.1	2311.0	2427.7	2548.7	2709.1	3008.6	3392.6
27.5°	2379.9	2384.1	2349.0	2347.6	2416.4	2440.4	2558.5	2689.3	2831.4	3138.0	3589.6
30°	2513.5	2526.2	2492.4	2486.8	2574.0	2593.7	2710.4	2862.3	3011.4	3332.2	3869.5
32.5°	2619.0	2628.8	2609.1	2623.3	2711.8	2727.3	2894.7	3107.1	3294.1	3607.8	4250.6
35°	2770.9	2776.5	2731.5	2756.8	2858.1	2897.5	3146.4	3450.3	3650.0	3953.8	4748.5
37.5°	3320.9	3320.9	3129.6	3004.4	3101.4	3136.6	3491.0	3882.1	4088.8	4418.0	5375.8
40°	4081.9	4069.1	3789.2	3533.3	3520.6	3589.6	3981.9	4426.5	4655.8	4975.0	6081.9
42.5°	4893.5	4873.8	4492.6	4239.4	4197.2	4221.1	4548.8	5097.3	5330.8	5654.4	6841.5
45°	5613.6	5608.0	5259.2	4918.8	4842.8	4918.8	5256.3	5882.3	6049.7	6390.0	7599.7
47.5°	6217.0	6217.0	5962.4	5740.2	5700.7	5745.8	6214.2	6752.9	6737.4	7173.5	8338.1
50°	6911.8	6906.2	6664.2	6568.6	6609.4	6672.7	7317.0	7670.0	7449.1	7942.8	8997.8
52.5°	7398.4	7432.3	7349.2	7333.8	7541.9	7651.7	8436.6	8567.4	8086.3	8672.8	9491.5
55°	7783.8	7823.3	7918.9	8027.2	8428.1	8571.6	9521.0	9418.3	8619.4	9305.8	9775.6
57.5°	8329.7	8273.4	8421.1	8634.9	9283.3	9456.3	10571.6	10221.5	9048.4	9819.2	9806.5
60°	8992.1	9000.5	9025.8	9295.9	10137.0	10359.3	11606.9	10981.0	9324.1	10134.3	9463.3
62.5°	9788.2	9800.9	9852.9	10267.8	11283.4	11493.0	12709.7	11602.7	9450.7	10045.6	8577.2
65°	9733.4	9786.8	10367.8	11787.0	13026.1	13232.9	13996.7	12038.7	9259.3	9235.5	6983.5
67.5°	8867.0	8954.2	9926.1	13601.4	15653.6	15884.2	15552.3	12124.5	8433.7	7181.9	4555.8
70°	7730.4	7761.4	8930.2	15233.0	18696.0	18929.5	16944.8	11180.7	6399.8	4005.9	2040.9
72.5°	6036.9	6044.0	7415.4	15611.4	20347.3	20360.0	15851.9	8300.1	3441.8	1538.7	708.9
75°	4312.5	4270.4	4966.5	12660.4	17901.3	18044.7	11884.1	3893.4	1315.2	727.2	353.0
77.5°	2312.4	2358.8	2810.3	7508.2	12366.4	12611.2	6484.3	1122.5	669.5	495.1	233.5
80°	714.5	753.9	1152.0	3437.6	7004.6	7152.3	2403.8	499.3	467.0	353.0	153.3
82.5°	225.1	233.5	537.3	1444.5	2907.3	2974.9	696.3	282.7	319.3	233.5	90.0
85°	64.7	66.1	239.1	538.7	718.7	732.8	195.5	109.7	182.9	144.8	46.4
87.5°	7.1	22.5	90.0	90.0	63.3	61.9	21.1	23.9	52.1	18.2	8.4
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°	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2	2782.2
2.5°	2787.8	2789.2	2770.9	2739.9	2706.2	2678.1	2643.0	2614.8	2595.1	2589.5	2599.3
5°	2807.5	2797.6	2745.6	2651.4	2538.8	2441.8	2333.5	2247.7	2191.4	2167.5	2176.0
7.5°	2837.0	2808.9	2694.9	2509.3	2294.1	2102.8	1908.7	1758.2	1662.6	1614.7	1621.8
10°	2862.3	2806.0	2610.6	2303.9	1974.8	1685.1	1423.4	1242.0	1140.7	1092.9	1094.3
12.5°	2886.3	2804.7	2500.9	2060.6	1614.7	1260.2	1016.9	926.9	898.8	889.0	886.1
15°	2931.3	2808.9	2363.0	1782.1	1256.0	952.2	863.7	862.2	867.9	865.0	863.7
17.5°	2993.2	2813.1	2206.9	1486.8	969.1	839.7	835.5	848.2	856.6	852.4	851.0
20°	3073.4	2830.0	2040.9	1194.1	832.7	811.6	821.4	832.7	839.7	832.7	831.3
22.5°	3185.9	2859.5	1859.5	959.3	789.0	794.7	803.2	815.8	822.9	813.0	811.6
25°	3323.7	2906.0	1680.8	834.0	767.9	775.0	787.7	801.8	810.2	800.3	798.9
27.5°	3502.3	2980.5	1516.3	806.0	746.9	751.1	769.4	790.5	801.8	789.0	789.0
30°	3761.1	3102.9	1374.2	818.7	734.2	724.4	749.7	779.2	791.9	780.6	779.2
32.5°	4104.3	3275.9	1287.0	838.3	728.6	693.4	717.3	755.3	776.4	769.4	769.4
35°	4554.5	3538.9	1253.3	860.8	724.4	661.1	677.9	718.7	755.3	762.4	762.4
37.5°	5100.2	3904.6	1263.1	870.6	711.8	634.4	642.8	677.9	725.8	748.2	753.9
40°	5720.5	4330.8	1319.4	860.8	697.6	611.8	613.3	640.0	682.1	716.0	727.2
42.5°	6360.4	4828.7	1423.4	824.2	685.0	592.1	587.9	606.2	634.4	658.3	668.1
45°	6969.5	5340.7	1526.1	773.6	669.5	572.5	562.6	569.7	575.3	585.2	590.7
47.5°	7501.2	5700.7	1496.6	727.2	648.4	550.0	533.1	530.2	513.4	512.0	510.6
50°	7868.3	5779.6	1329.2	680.8	617.5	524.7	497.9	481.0	451.5	437.5	438.8
52.5°	7985.1	5468.7	1085.9	634.4	566.8	490.9	452.9	426.2	389.6	377.0	375.6
55°	7830.3	4859.6	867.9	578.1	496.5	445.9	403.6	368.5	339.0	323.5	323.5
57.5°	7452.0	4084.6	686.4	512.0	422.0	395.2	353.0	317.9	292.5	277.1	274.3
60°	6824.7	3243.5	542.9	433.3	360.1	340.4	296.7	274.3	251.7	233.5	229.3
62.5°	5872.4	2315.2	426.2	343.2	301.0	278.5	253.2	236.3	209.6	184.3	180.0
65°	4582.6	1416.4	329.1	251.7	241.9	230.6	215.2	199.8	167.4	142.1	137.9
67.5°	2890.5	671.0	234.9	189.9	191.3	185.6	178.7	165.9	142.1	119.5	116.7
70°	1272.9	324.9	154.7	144.8	142.1	142.1	147.7	143.5	121.0	99.8	95.6
72.5°	433.3	174.5	115.3	109.7	102.7	101.3	123.8	119.5	97.1	77.4	73.2
75°	226.4	116.7	84.4	78.7	61.9	74.5	98.5	92.9	68.9	50.6	46.4
77.5°	147.7	83.0	57.7	50.6	35.2	49.2	73.2	64.7	40.8	25.3	22.5
80°	92.9	54.8	33.7	23.9	16.9	26.8	39.4	28.1	15.5	5.6	4.2
82.5°	49.2	28.1	12.7	8.4	7.1	8.4	9.8	7.1	2.8	0.0	0.0
85°	19.7	9.8	4.2	2.8	1.4	0.0	2.8	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)