

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: P967888

Luminaire Tested: **NVN-SB5A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21149.8 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.7
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



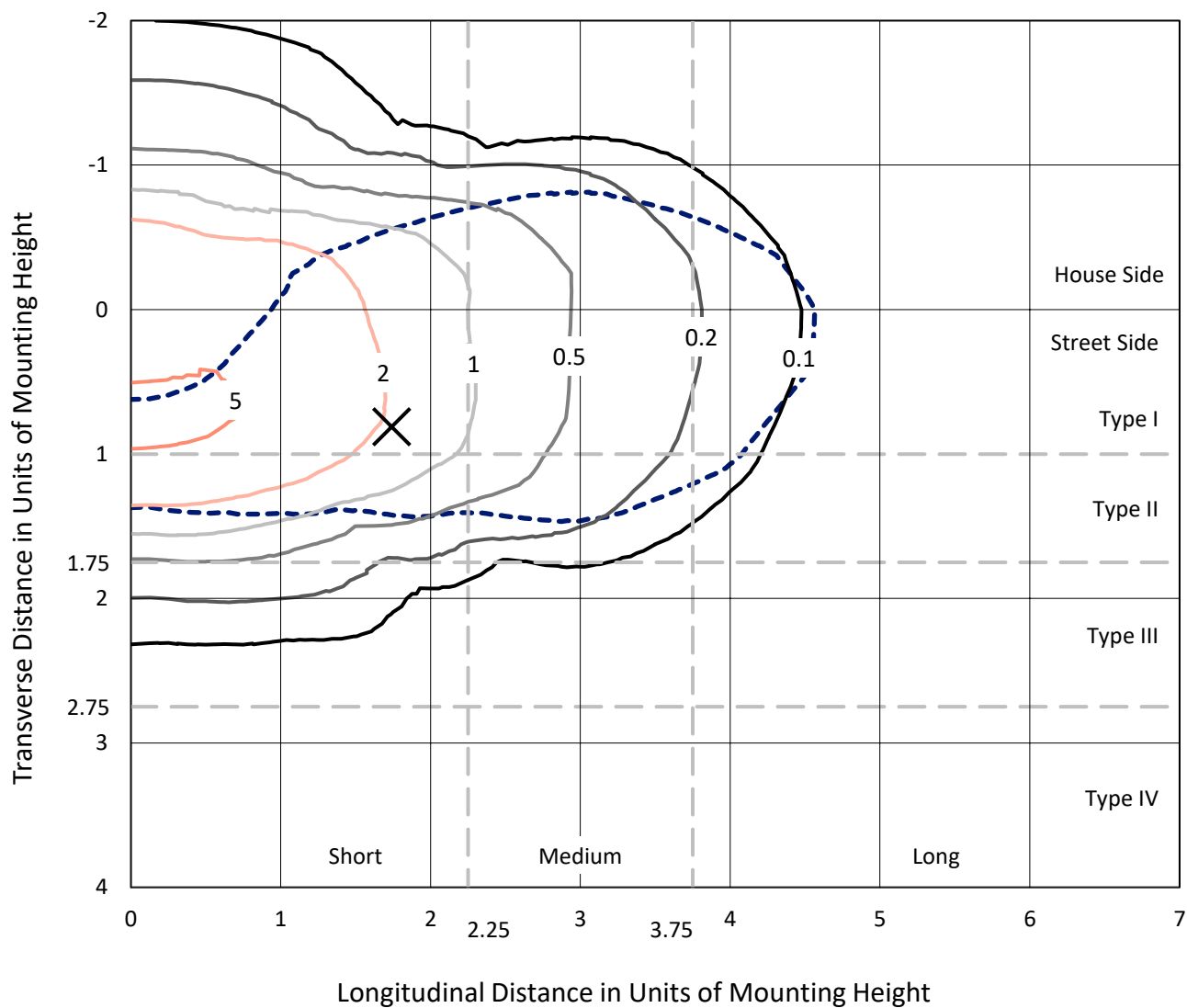
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Iso-Footcandle Lines of Horizontal Illumination

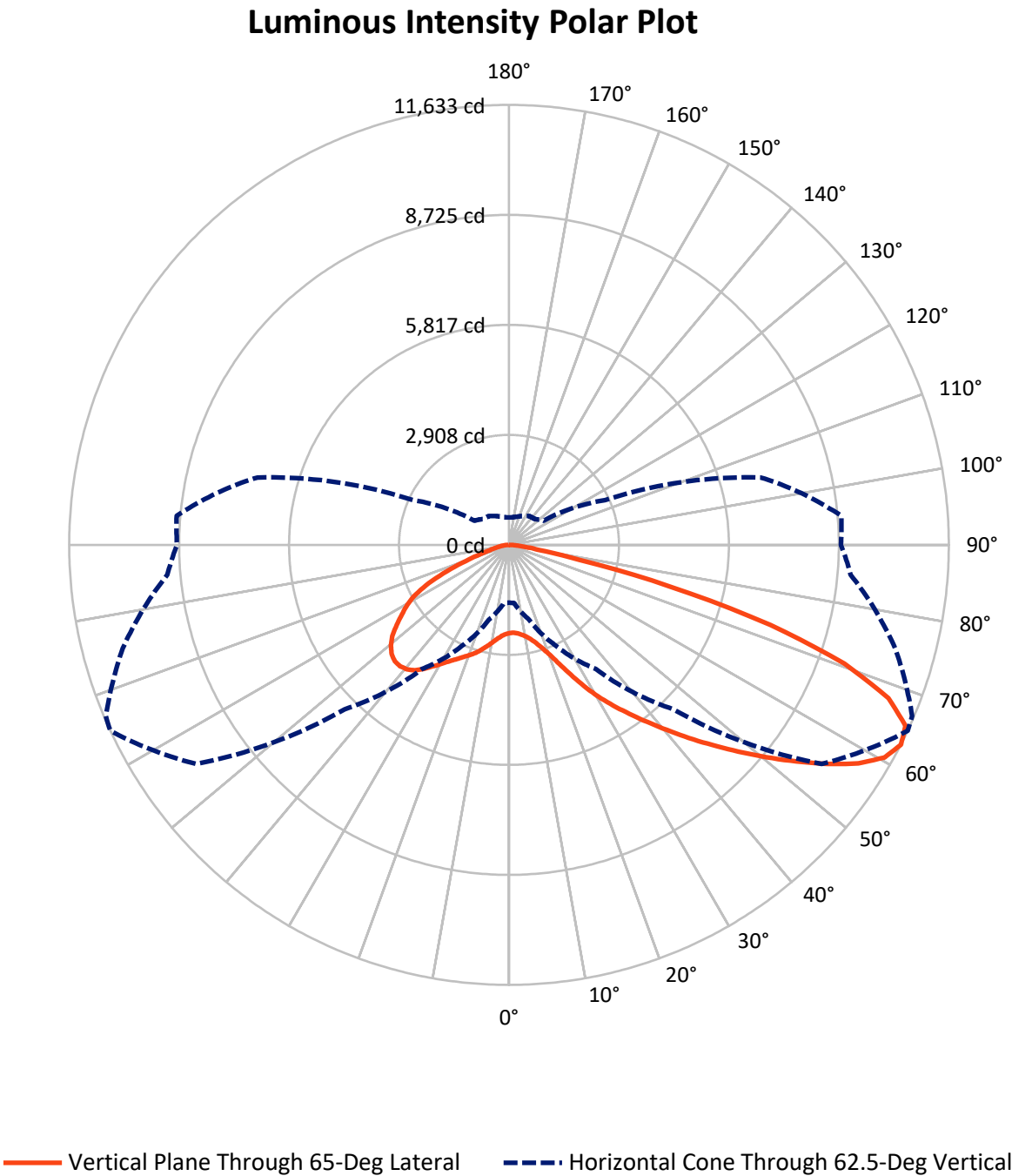
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6674.0	0.0	6674.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14475.9	0.0	14475.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	21149.8	0.0	21149.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	1.1
10°-20°	788.0	3.7
20°-30°	1597.7	7.6
30°-40°	2764.7	13.1
40°-50°	4183.9	19.8
50°-60°	4905.3	23.2
60°-70°	4112.5	19.4
70°-80°	2270.5	10.7
80°-90°	294.9	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°	21149.8	100.0
0°-180°	21149.8	100.0

Coefficient of Utilization



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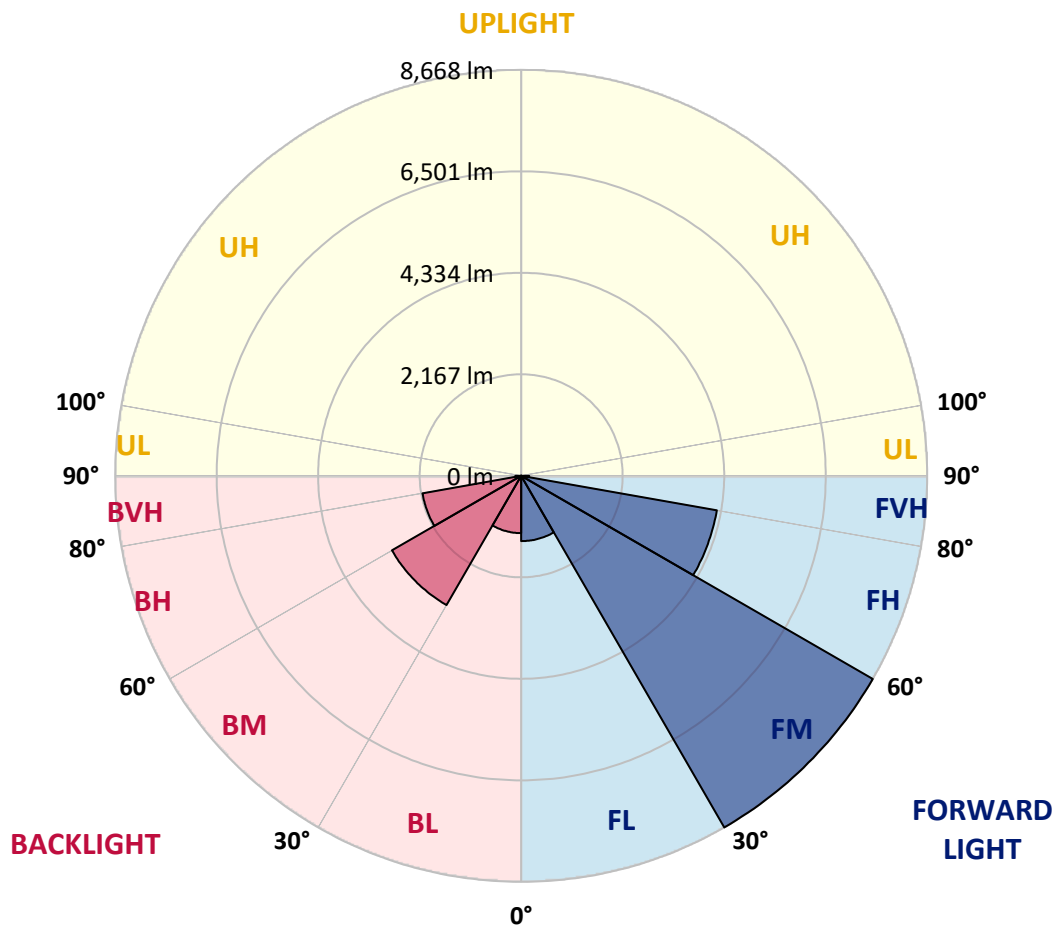
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1394.1	6.6			
FM	(30°-60°)	8667.9	41.0			
FH	(60°-80°)	4242.0	20.1			G2/5000
FVH	(80°-90°)	171.9	0.8			G2/225
BL	(0°-30°)	1223.9	5.8	B3/2500		
BM	(30°-60°)	3186.1	15.1	B3/5000		
BH	(60°-80°)	2141.0	10.1	B3/2500		G3/2500
BVH	(80°-90°)	123.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6
2.5°	2315.3	2308.7	2314.1	2314.1	2316.4	2315.3	2323.0	2325.1	2328.4	2335.1	2335.1
5°	2292.2	2291.1	2301.0	2309.7	2318.5	2326.2	2336.1	2350.3	2352.6	2360.3	2370.1
7.5°	2284.5	2278.0	2293.3	2304.3	2325.1	2343.8	2370.1	2394.3	2404.1	2407.4	2426.1
10°	2343.8	2332.8	2347.0	2353.7	2371.2	2389.9	2420.6	2459.0	2469.9	2483.2	2504.0
12.5°	2444.7	2432.6	2453.5	2463.4	2479.9	2496.3	2517.2	2554.5	2559.9	2584.1	2603.8
15°	2583.0	2568.8	2581.9	2594.0	2621.4	2636.8	2657.6	2693.8	2693.8	2712.5	2726.7
17.5°	2770.7	2752.0	2761.9	2766.3	2783.8	2806.9	2841.9	2873.8	2890.2	2883.6	2863.8
20°	3050.4	3027.4	3027.4	3005.4	2998.8	3017.5	3063.6	3107.5	3125.0	3091.0	3042.7
22.5°	3470.6	3437.7	3419.1	3344.5	3314.8	3317.1	3363.1	3416.9	3431.2	3370.8	3262.2
25°	4005.1	3953.5	3928.2	3818.5	3751.6	3693.5	3729.7	3798.8	3818.5	3743.9	3568.3
27.5°	4539.4	4542.7	4518.6	4386.9	4276.1	4169.7	4151.0	4223.4	4244.3	4159.8	3942.6
30°	5288.9	5211.0	5164.9	5006.9	4848.9	4699.6	4622.9	4652.5	4657.9	4557.0	4304.6
32.5°	5935.2	5915.5	5816.7	5678.4	5475.4	5241.7	5113.3	5066.2	5057.3	4913.6	4614.0
35°	6671.4	6660.4	6556.2	6391.7	6172.2	5847.4	5615.9	5480.9	5469.9	5268.1	4920.2
37.5°	7419.8	7419.8	7317.8	7137.8	6910.7	6504.6	6152.5	5938.4	5903.4	5640.1	5231.8
40°	8016.7	7980.5	7999.2	7923.5	7663.4	7232.2	6748.3	6437.7	6390.6	6074.6	5563.2
42.5°	8355.8	8343.7	8455.6	8540.1	8433.7	8089.1	7404.4	6978.7	6912.9	6552.9	5945.1
45°	8431.4	8418.3	8618.0	8927.4	9076.7	8935.1	8117.7	7548.2	7468.0	7053.3	6354.4
47.5°	8257.0	8230.6	8523.7	9012.0	9490.4	9739.4	8890.1	8166.0	8049.6	7540.5	6774.6
50°	7732.5	7707.3	8150.6	8799.1	9629.8	10285.9	9728.5	8821.0	8643.3	8062.9	7199.3
52.5°	6592.5	6604.5	7299.1	8190.1	9446.5	10626.1	10450.5	9511.2	9297.3	8597.2	7597.6
55°	5135.2	5161.6	6015.3	6996.2	8713.5	10574.5	10943.2	10222.2	10009.4	9099.7	8009.0
57.5°	3677.0	3793.3	4593.2	5564.3	7305.7	9757.0	11050.7	10898.2	10691.9	9648.4	8411.8
60°	2383.3	2404.1	3227.1	4205.9	5563.2	8304.2	10832.3	11410.6	11249.3	10208.0	8748.6
62.5°	1527.5	1541.7	2043.1	2941.9	4004.0	6143.6	10097.2	11633.3	11583.9	10577.8	9072.3
65°	1122.5	1111.5	1372.7	1944.4	2697.1	3788.9	8669.7	11525.8	11623.5	10809.3	9340.0
67.5°	937.1	921.7	1050.1	1346.3	1987.2	2151.8	6414.7	10826.9	11184.6	10783.0	9536.5
70°	853.7	840.5	918.4	999.6	1550.4	1440.7	3233.7	9412.5	9963.3	10483.4	9504.6
72.5°	723.1	700.1	806.5	887.6	1205.9	1104.9	1336.5	7229.9	7901.5	9523.3	9056.9
75°	560.7	545.3	636.4	781.3	906.3	862.4	844.9	4390.2	5123.2	7364.9	7923.5
77.5°	444.4	423.5	507.0	609.0	815.3	650.7	615.6	1890.6	2617.0	4701.9	5928.6
80°	334.7	316.0	385.2	481.7	626.6	490.5	398.3	771.4	986.5	2382.2	2981.3
82.5°	238.1	221.6	268.9	353.3	421.4	440.0	244.7	432.3	486.1	918.4	666.0
85°	152.5	142.7	180.0	221.6	267.7	283.1	149.2	226.0	247.9	378.5	277.6
87.5°	83.4	68.1	96.6	103.1	124.0	113.1	71.3	82.3	88.9	137.1	117.4
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°	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6	2330.6
2.5°	2339.4	2342.7	2353.7	2357.0	2364.7	2374.5	2381.1	2387.6	2387.6	2394.3	2394.3
5°	2371.2	2378.9	2402.0	2414.0	2433.8	2453.5	2465.6	2479.9	2488.6	2493.0	2495.3
7.5°	2432.6	2444.7	2477.6	2498.5	2532.6	2559.9	2578.6	2598.4	2602.8	2614.8	2610.5
10°	2516.1	2530.3	2567.6	2607.1	2647.8	2681.7	2699.3	2713.6	2719.0	2721.3	2715.7
12.5°	2611.5	2632.4	2680.7	2729.0	2771.7	2801.3	2805.7	2802.5	2787.1	2774.0	2774.0
15°	2729.0	2747.6	2801.3	2854.0	2895.7	2901.2	2873.8	2856.3	2837.6	2834.2	2834.2
17.5°	2869.4	2879.2	2928.6	2980.2	2983.5	2964.8	2924.2	2907.8	2890.2	2878.2	2879.2
20°	3032.9	3029.6	3064.7	3086.7	3063.6	3006.5	2945.1	2917.7	2900.1	2885.9	2886.9
22.5°	3228.2	3202.9	3198.6	3193.1	3131.7	3012.1	2928.6	2893.6	2866.1	2846.3	2852.9
25°	3512.4	3415.8	3348.9	3311.6	3173.3	2982.4	2875.9	2798.0	2746.5	2712.5	2725.7
27.5°	3867.9	3705.5	3536.6	3445.4	3173.3	2922.1	2748.6	2622.5	2538.0	2502.8	2520.5
30°	4207.0	4036.9	3787.8	3606.8	3165.6	2823.3	2543.5	2368.0	2269.1	2234.1	2254.9
32.5°	4496.7	4311.3	4054.5	3783.4	3147.0	2663.1	2288.9	2094.7	1999.3	1957.5	1978.4
35°	4765.5	4568.0	4322.2	3977.6	3097.7	2428.3	2009.1	1861.0	1754.6	1687.7	1709.6
37.5°	5041.0	4806.1	4575.7	4153.2	3008.8	2153.9	1794.1	1667.9	1542.7	1452.8	1476.9
40°	5340.5	5059.6	4846.7	4257.4	2862.8	1892.8	1627.3	1512.1	1379.2	1283.8	1302.5
42.5°	5690.5	5363.5	5148.5	4311.3	2663.1	1707.3	1518.6	1405.6	1280.5	1202.6	1218.0
45°	6055.9	5698.2	5423.9	4310.1	2440.3	1620.7	1483.5	1371.6	1233.4	1152.1	1165.3
47.5°	6438.8	6048.2	5662.0	4239.9	2247.2	1632.7	1463.8	1298.1	1145.5	1066.5	1077.5
50°	6822.9	6431.2	5892.4	4108.2	2164.9	1606.4	1390.2	1194.9	1015.0	943.6	948.0
52.5°	7203.6	6838.3	6091.0	3920.6	2081.6	1508.8	1295.9	1061.1	961.2	911.8	911.8
55°	7586.6	7240.9	6307.1	3647.4	1873.1	1394.6	1137.9	1010.5	918.4	873.4	869.0
57.5°	7970.6	7706.2	6512.3	3374.1	1610.8	1254.2	1051.2	949.1	875.7	837.2	830.7
60°	8370.0	8238.3	6724.1	3122.9	1351.9	1074.2	987.6	899.7	825.1	782.4	779.1
62.5°	8781.5	8824.3	6889.8	2799.2	1113.8	964.5	930.5	840.5	768.1	727.5	726.4
65°	9196.3	9389.4	6998.5	2350.3	903.0	860.3	869.0	775.8	702.2	667.2	666.0
67.5°	9509.0	9796.5	6967.7	1778.7	740.7	761.5	792.2	707.8	638.6	611.2	612.2
70°	9544.2	9748.3	6664.9	1218.0	619.9	664.9	706.6	640.8	569.5	549.7	550.8
72.5°	9076.7	9089.9	5821.1	795.5	524.5	583.7	616.6	572.8	503.7	483.9	482.8
75°	7851.0	7517.5	4273.9	524.5	438.9	501.4	532.2	501.4	434.5	438.9	423.5
77.5°	5948.4	5324.0	2595.1	373.1	366.5	421.4	463.1	441.1	384.1	431.2	379.7
80°	3064.7	2880.4	1157.6	278.7	289.7	336.8	380.8	352.2	303.9	289.7	264.4
82.5°	702.2	816.4	456.4	199.7	209.6	242.5	290.8	264.4	218.3	184.3	182.1
85°	245.8	268.9	201.9	125.0	122.9	151.4	197.5	176.7	148.1	118.5	125.0
87.5°	77.9	102.1	75.7	50.4	52.7	68.1	91.1	83.4	69.1	45.0	47.2
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)