

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: P966836

Luminaire Tested: **NVN-SB4C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966836
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-SB4C-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 21680.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 200.7
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

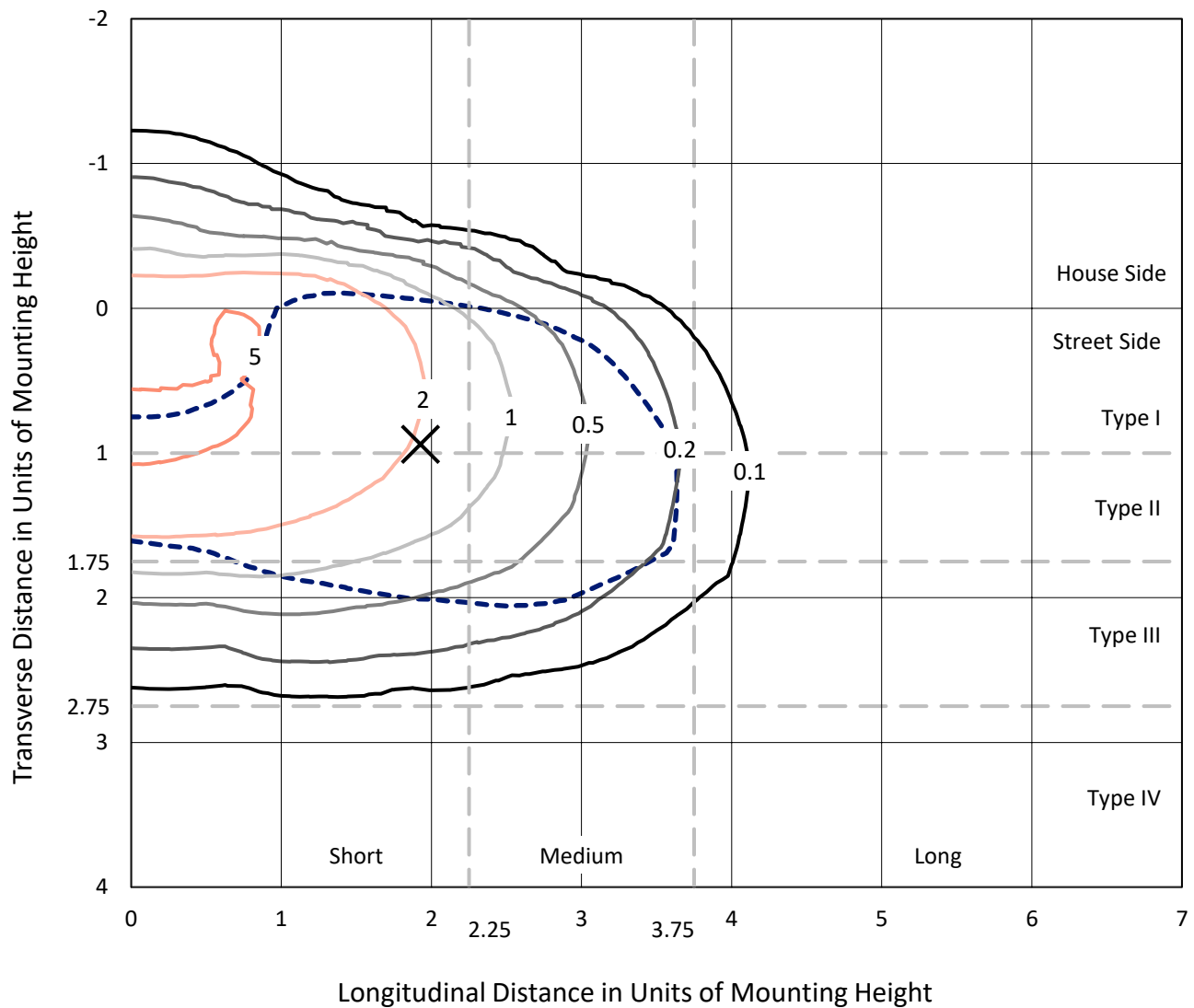


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Iso-Footcandle Lines of Horizontal Illumination

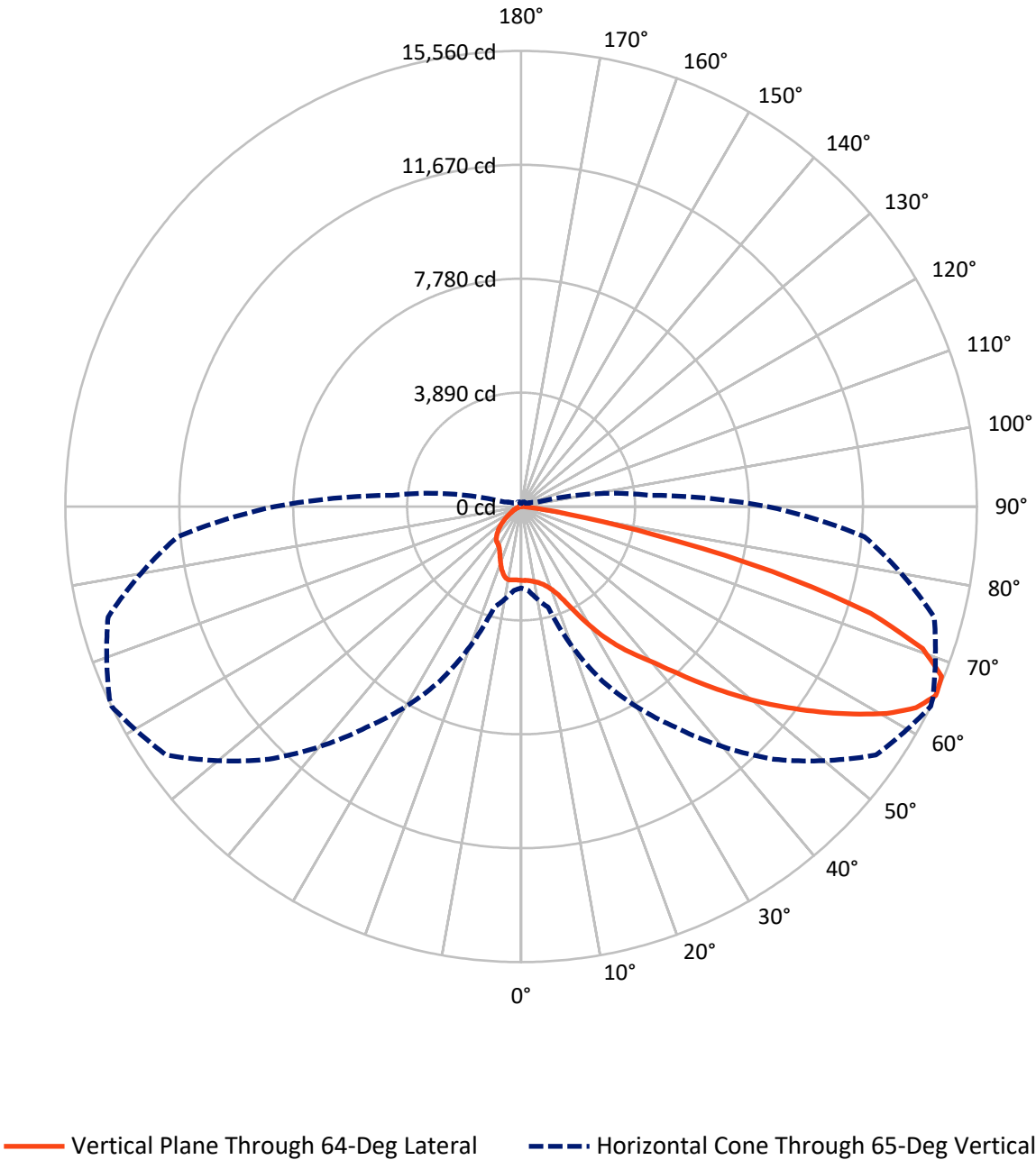
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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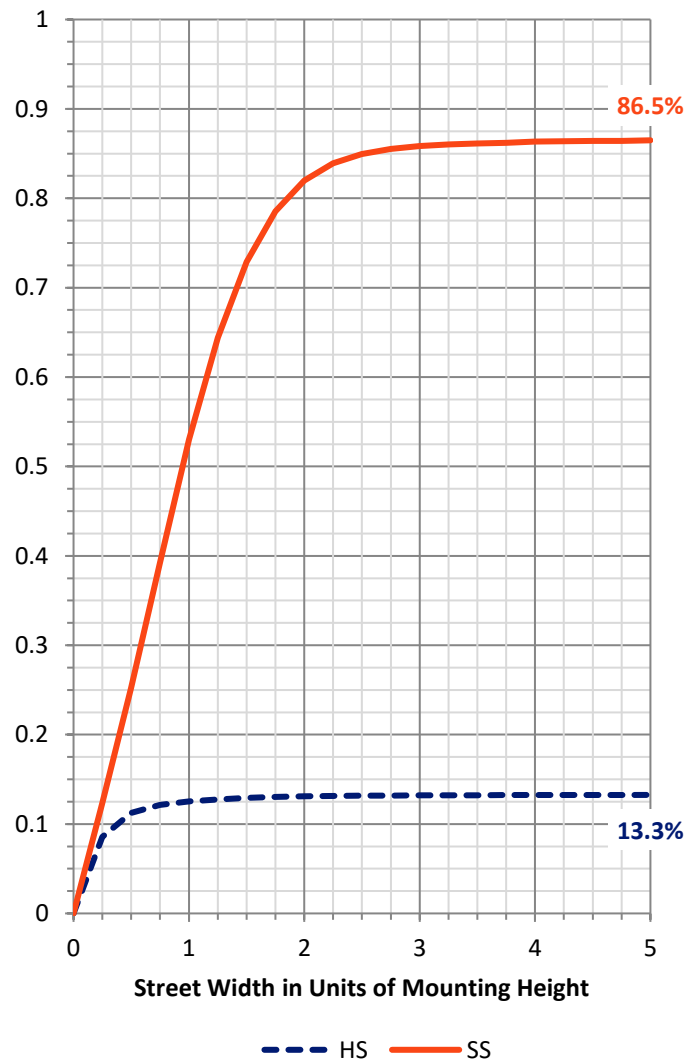
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.4	0.0	2899.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18781.4	0.0	18781.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	21680.8	0.0	21680.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.1
10°-20°	631.0	2.9
20°-30°	1195.7	5.5
30°-40°	2419.6	11.2
40°-50°	4121.8	19.0
50°-60°	5605.3	25.9
60°-70°	5263.7	24.3
70°-80°	2108.8	9.7
80°-90°	102.2	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°	21680.8	100.0
0°-180°	21680.8	100.0

Coefficient of Utilization



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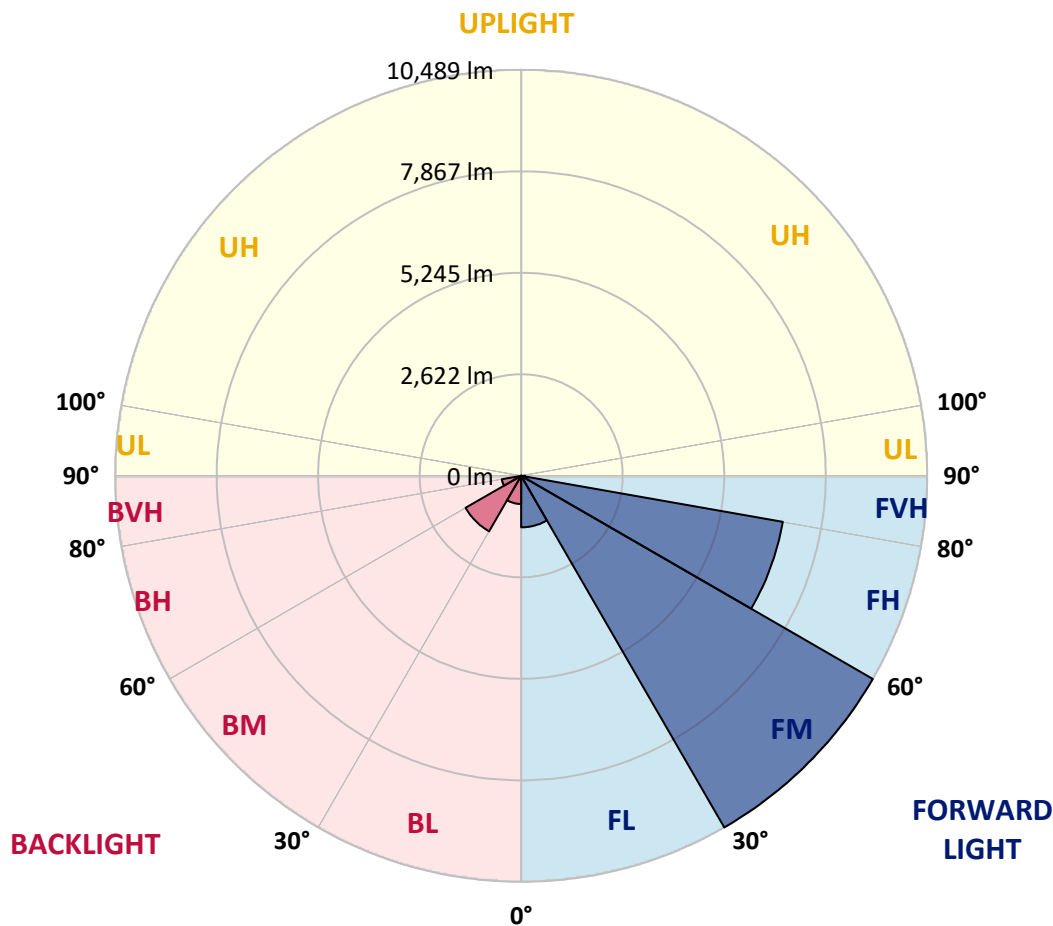
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1331.4	6.1			
FM	(30°-60°)	10489.1	48.4			
FH	(60°-80°)	6863.6	31.7			G3/7500
FVH	(80°-90°)	97.2	0.4			G1/100
BL	(0°-30°)	727.9	3.4	B2/1000		
BM	(30°-60°)	1657.6	7.6	B2/2500		
BH	(60°-80°)	508.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.0	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7
2.5°	2513.0	2530.4	2526.1	2521.7	2520.3	2523.1	2524.6	2523.1	2523.1	2523.1	2524.6
5°	2465.0	2479.6	2479.6	2489.7	2504.3	2521.7	2534.8	2537.7	2540.6	2545.0	2543.5
7.5°	2373.5	2385.1	2393.8	2427.2	2463.6	2510.1	2549.3	2569.7	2572.5	2588.5	2594.4
10°	2311.0	2325.5	2340.0	2374.9	2427.2	2497.0	2563.8	2613.2	2620.5	2658.3	2675.8
12.5°	2308.1	2322.5	2341.5	2379.2	2440.3	2514.4	2595.8	2667.0	2680.2	2735.3	2771.7
15°	2338.5	2356.0	2373.5	2419.9	2485.3	2575.5	2662.6	2751.3	2764.4	2842.9	2882.2
17.5°	2401.1	2424.3	2437.4	2483.9	2553.7	2653.9	2768.8	2870.5	2882.2	2973.7	3023.1
20°	2524.6	2552.2	2556.6	2594.4	2662.6	2770.3	2906.9	3033.3	3047.8	3152.5	3207.7
22.5°	2780.4	2819.7	2784.8	2803.7	2864.7	2972.3	3120.5	3280.4	3300.7	3419.9	3469.3
25°	3231.0	3286.3	3196.1	3164.1	3190.3	3302.2	3488.3	3690.3	3713.5	3809.4	3834.1
27.5°	4116.1	4044.9	3908.3	3774.6	3696.0	3760.0	3969.3	4219.3	4248.4	4341.4	4312.3
30°	5088.5	5026.0	4841.4	4544.8	4358.8	4348.7	4542.0	4821.0	4854.5	4943.2	4854.5
32.5°	6062.3	6002.7	5802.1	5437.3	5114.6	4954.7	5088.5	5398.1	5415.5	5472.2	5341.4
35°	7020.0	6959.0	6758.4	6384.9	5988.2	5624.8	5598.7	5947.5	5953.3	6012.9	5818.1
37.5°	7983.7	7932.8	7719.2	7352.9	6961.9	6460.5	6217.8	6467.7	6475.0	6533.1	6331.1
40°	8671.2	8692.9	8546.1	8262.7	7927.0	7379.1	6912.5	7021.6	6977.9	7075.3	6954.6
42.5°	9261.3	9304.8	9176.9	9034.6	8839.8	8357.2	7773.0	7754.0	7684.3	7736.6	7611.6
45°	9771.4	9807.7	9692.9	9659.5	9655.1	9316.5	8713.3	8600.0	8502.6	8492.4	8342.7
47.5°	9958.9	10028.7	10078.1	10190.0	10408.1	10265.6	9685.6	9509.8	9400.8	9320.8	9084.0
50°	10030.1	10104.2	10272.9	10598.4	11114.4	11175.5	10653.6	10456.0	10322.3	10176.9	9828.1
52.5°	9934.2	10066.4	10293.2	10841.1	11589.7	11905.1	11582.4	11409.5	11256.9	11019.9	10502.5
55°	9368.8	9501.0	9964.7	10838.2	11826.6	12416.6	12460.3	12383.2	12211.7	11838.2	11047.6
57.5°	8177.0	8373.2	9107.2	10469.0	11822.2	12857.1	13320.7	13375.9	13184.1	12649.2	11476.3
60°	6525.9	6791.9	7687.2	9650.8	11457.3	13095.4	14075.0	14351.1	14147.7	13448.6	11823.7
62.5°	4553.6	4861.7	5709.0	8368.8	10623.1	12923.9	14625.8	15136.1	14981.9	14163.7	11957.3
65°	2777.5	2876.4	3559.4	6585.5	9204.6	12205.9	14795.9	15560.4	15509.6	14601.1	11759.7
67.5°	1850.2	1933.0	2129.2	4515.8	7145.1	10771.4	14389.0	15486.3	15500.9	14530.0	11035.9
70°	1114.8	1186.0	1313.9	2626.4	4630.6	8525.8	13128.8	14541.6	14625.8	13578.0	9663.9
72.5°	459.3	507.3	623.5	1190.3	2398.2	5411.1	10454.5	12485.0	12681.2	11416.7	7416.9
75°	260.1	284.8	366.2	597.4	1040.7	2521.7	6332.6	8863.0	9152.2	7868.8	4462.0
77.5°	172.9	184.6	236.9	386.6	585.7	860.4	2706.3	4617.5	5169.9	4297.8	1931.6
80°	116.2	126.5	162.8	258.7	380.8	369.2	861.9	1710.7	2104.5	1476.7	470.9
82.5°	78.5	79.9	116.2	170.0	241.3	178.8	254.3	532.0	668.6	427.3	178.8
85°	45.1	43.6	85.8	98.8	107.5	74.1	77.1	159.9	209.3	180.2	101.8
87.5°	5.8	8.7	33.4	26.1	14.6	16.0	16.0	27.6	40.7	43.6	21.8
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°	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7	2521.7
2.5°	2524.6	2523.1	2518.8	2514.4	2504.3	2498.4	2501.3	2498.4	2497.0	2498.4	2504.3
5°	2543.5	2539.1	2527.5	2513.0	2492.6	2467.9	2451.9	2428.6	2406.9	2393.8	2396.8
7.5°	2594.4	2590.0	2574.0	2533.3	2467.9	2364.8	2270.3	2187.5	2124.9	2088.5	2090.1
10°	2675.8	2668.5	2643.8	2553.7	2382.2	2156.9	1969.4	1813.8	1712.2	1664.2	1659.8
12.5°	2771.7	2763.0	2719.3	2534.8	2219.4	1867.7	1608.9	1436.0	1341.5	1299.4	1295.0
15°	2885.1	2873.4	2787.7	2444.6	1982.5	1547.9	1311.0	1181.6	1120.6	1082.8	1084.2
17.5°	3026.0	3005.7	2838.5	2309.5	1725.2	1303.7	1127.9	1030.4	976.7	940.3	937.5
20°	3209.2	3175.8	2879.2	2148.2	1488.3	1149.6	1004.3	922.9	882.2	850.2	844.4
22.5°	3465.0	3417.0	2928.6	1973.7	1321.1	1043.6	912.8	853.2	819.7	783.4	777.6
25°	3781.8	3725.2	2989.7	1812.4	1206.3	952.0	845.9	796.5	757.3	715.0	710.7
27.5°	4225.2	4123.4	3062.4	1680.2	1107.5	873.5	784.8	729.6	684.6	649.6	642.4
30°	4719.3	4552.1	3126.4	1600.2	1017.4	800.8	704.9	649.6	607.5	582.8	578.5
32.5°	5187.3	4960.6	3168.5	1565.4	936.0	718.0	617.7	558.1	526.1	518.9	523.3
35°	5629.1	5329.7	3164.1	1532.0	863.4	635.2	532.0	470.9	446.2	450.6	450.6
37.5°	6137.8	5723.6	3133.6	1479.6	803.7	559.5	457.9	404.1	382.2	383.7	389.5
40°	6729.4	6178.5	3114.7	1380.8	738.3	489.8	396.8	353.2	337.2	331.4	329.9
42.5°	7360.2	6618.9	3117.6	1268.8	656.9	427.3	354.6	318.3	303.8	299.4	298.0
45°	7993.9	7039.0	3121.9	1152.6	571.2	379.4	324.1	293.6	284.8	279.1	279.1
47.5°	8589.8	7396.5	3040.6	1027.6	486.9	343.0	299.4	279.1	271.8	264.6	264.6
50°	9144.9	7634.9	2844.4	882.2	420.0	314.0	280.5	266.0	258.7	251.4	251.4
52.5°	9576.7	7672.6	2520.3	732.6	373.5	292.1	268.9	255.8	247.1	239.8	238.3
55°	9768.6	7435.8	2059.5	593.0	337.2	273.3	257.3	244.2	234.0	226.7	225.3
57.5°	9719.0	6937.2	1606.1	476.7	302.3	254.3	242.7	234.0	222.4	210.7	209.3
60°	9476.3	6270.1	1210.7	396.8	270.3	234.0	226.7	219.5	203.5	186.0	183.2
62.5°	9056.3	5431.5	863.4	328.5	235.4	210.7	207.9	202.0	178.8	146.8	143.9
65°	8413.9	4412.6	581.4	273.3	202.0	184.6	186.0	175.9	145.3	109.0	106.1
67.5°	7475.0	3226.6	372.1	223.9	168.6	154.1	155.5	149.8	123.5	93.1	88.7
70°	6278.8	2136.5	242.7	170.0	135.2	119.2	127.9	129.4	104.7	75.5	72.7
72.5°	4603.0	1261.6	170.0	126.5	98.8	82.8	104.7	107.5	84.3	56.7	53.8
75°	2623.5	598.8	127.9	91.5	61.1	58.1	81.4	81.4	58.1	37.8	34.8
77.5°	1101.7	250.0	90.1	59.6	34.8	33.4	55.2	50.8	29.1	17.4	17.4
80°	318.3	111.9	48.0	29.1	14.6	13.1	21.8	16.0	7.3	2.9	2.9
82.5°	124.9	49.4	18.9	11.6	5.8	5.8	2.9	0.0	0.0	0.0	0.0
85°	74.1	20.4	8.7	4.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	4.4	2.9	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)