

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: P962980

Luminaire Tested: **NVN-SB2D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20677.3 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

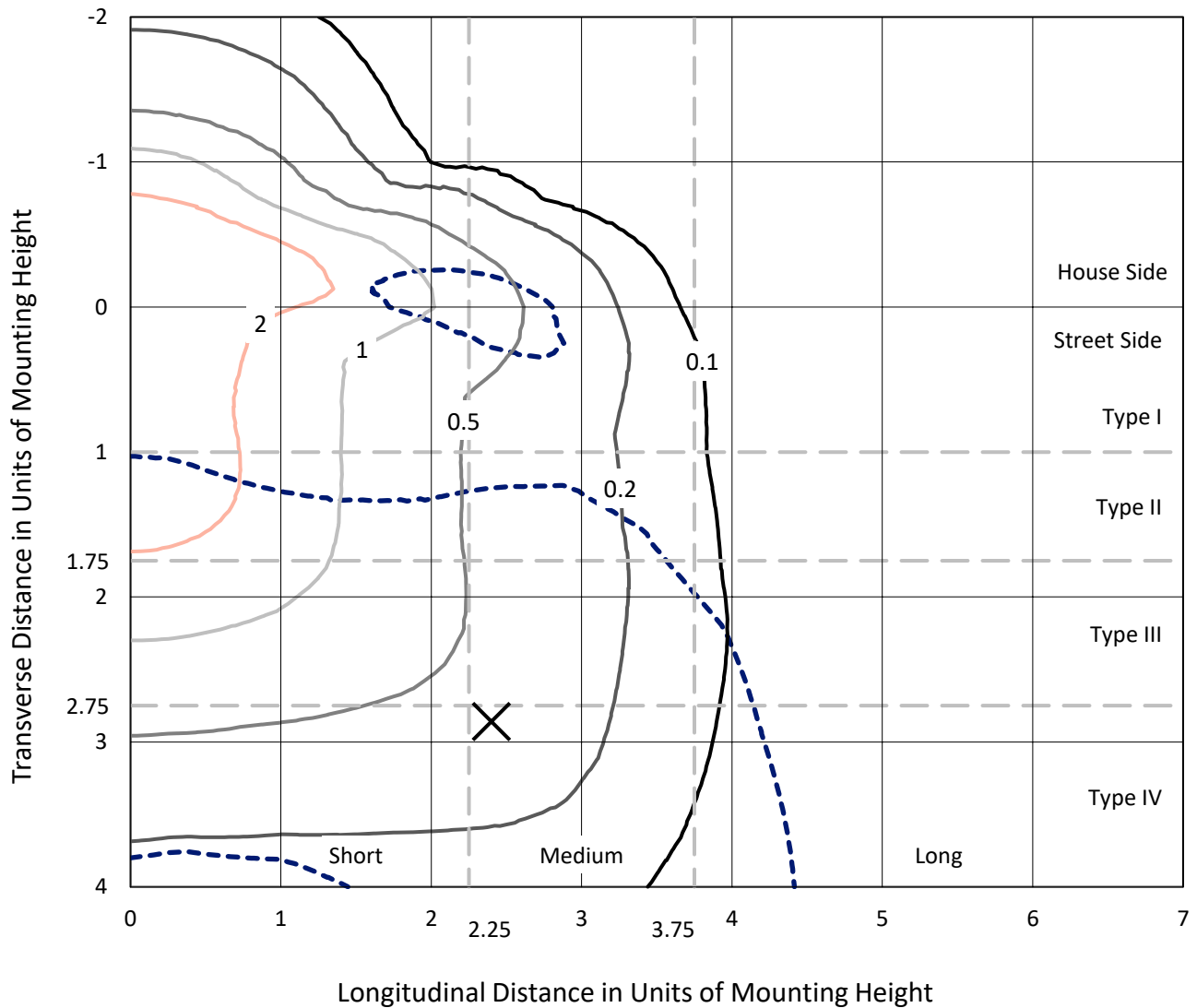
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

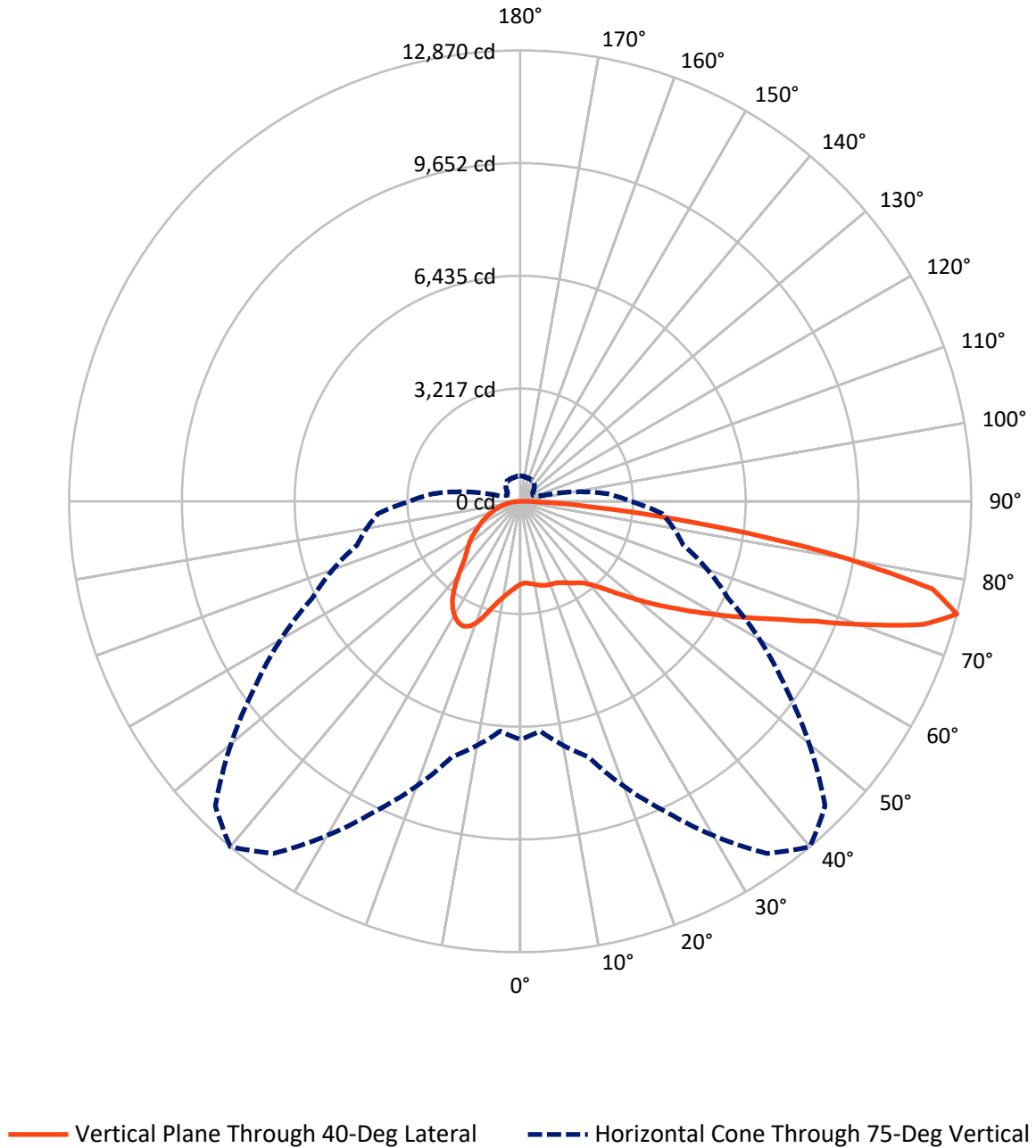
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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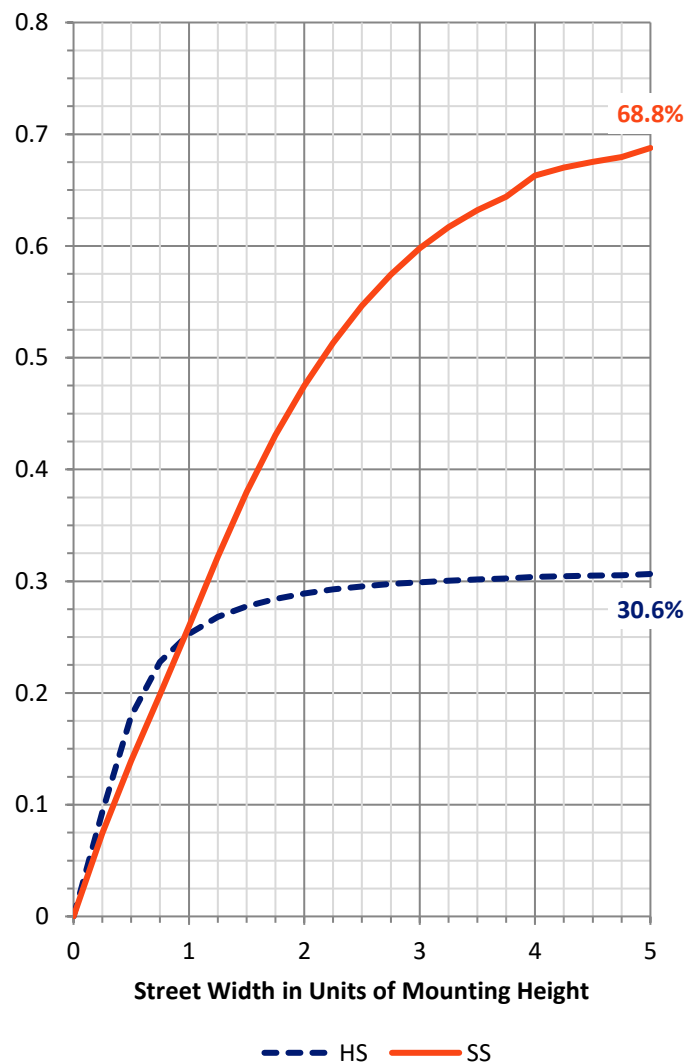
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6406.5	0.0	6406.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14270.8	0.0	14270.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	20677.3	0.0	20677.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	1.1
10°-20°	792.4	3.8
20°-30°	1446.9	7.0
30°-40°	2052.1	9.9
40°-50°	2771.0	13.4
50°-60°	3727.7	18.0
60°-70°	4731.3	22.9
70°-80°	4293.9	20.8
80°-90°	625.9	3.0
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°	20677.3	100.0
0°-180°	20677.3	100.0

Coefficient of Utilization



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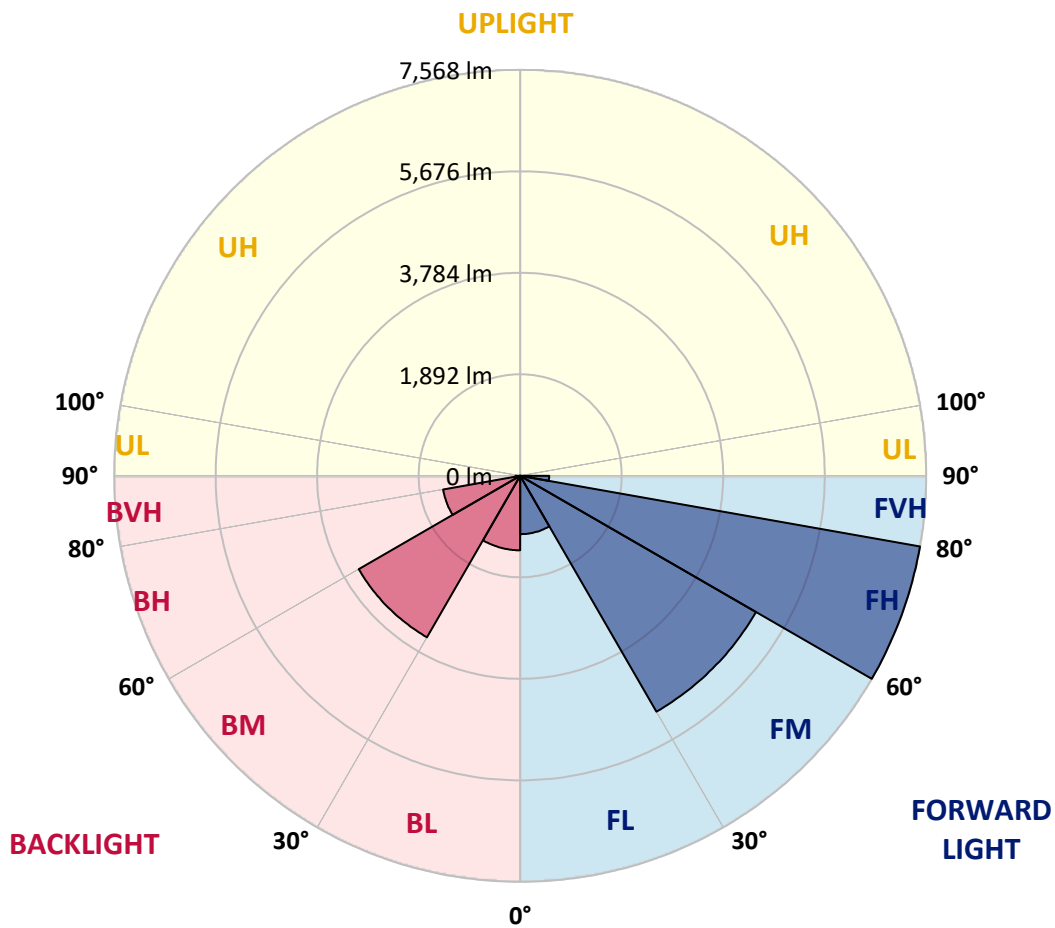
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.7	5.3			
FM (30°-60°)	5075.8	24.5			
FH (60°-80°)	7567.6	36.6			G4/12000
FVH (80°-90°)	539.7	2.6			G4/750
BL (0°-30°)	1387.7	6.7	B3/2500		
BM (30°-60°)	3475.0	16.8	B3/5000		
BH (60°-80°)	1457.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	86.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5
2.5°	2328.3	2341.4	2338.1	2333.8	2333.8	2334.8	2333.8	2341.4	2349.1	2356.8	2368.9
5°	2352.4	2365.6	2359.0	2353.5	2349.1	2348.1	2344.8	2343.7	2348.1	2357.9	2374.3
7.5°	2399.5	2412.7	2402.9	2393.0	2384.3	2379.8	2375.4	2368.9	2365.6	2371.0	2394.1
10°	2452.2	2465.3	2453.3	2435.8	2421.5	2416.0	2411.6	2405.1	2400.7	2403.9	2429.1
12.5°	2504.9	2518.0	2501.6	2477.4	2458.8	2455.5	2450.1	2447.8	2446.8	2445.6	2470.9
15°	2554.2	2565.2	2544.4	2515.9	2496.1	2490.6	2485.1	2488.4	2493.9	2500.5	2529.0
17.5°	2592.6	2603.6	2572.9	2535.5	2516.9	2514.7	2511.5	2522.4	2537.8	2554.2	2589.3
20°	2627.7	2638.7	2599.2	2548.8	2526.8	2526.8	2527.9	2550.9	2572.9	2596.9	2645.2
22.5°	2677.0	2685.8	2637.5	2568.4	2536.7	2538.8	2547.6	2570.7	2598.1	2631.0	2697.9
25°	2750.5	2757.1	2697.9	2605.8	2569.6	2576.1	2583.8	2594.8	2621.1	2659.5	2749.5
27.5°	2869.0	2874.4	2796.6	2671.6	2616.7	2627.7	2638.7	2631.0	2643.1	2676.0	2791.1
30°	3035.6	3038.9	2940.2	2774.7	2696.8	2702.3	2704.5	2672.7	2649.6	2676.0	2820.7
32.5°	3233.1	3231.9	3114.7	2899.6	2787.8	2782.4	2763.7	2701.2	2647.5	2670.4	2847.0
35°	3539.0	3527.0	3375.6	3075.1	2890.9	2856.9	2813.0	2733.0	2658.4	2665.0	2870.1
37.5°	4045.7	4008.5	3799.0	3362.5	3044.5	2957.8	2893.1	2784.5	2682.5	2662.7	2897.5
40°	4617.1	4570.0	4339.6	3756.2	3274.8	3135.5	3031.2	2858.0	2722.0	2672.7	2938.1
42.5°	5294.8	5227.9	4980.1	4220.1	3566.5	3364.7	3207.8	2951.2	2780.1	2704.5	2992.9
45°	6127.2	6038.4	5687.5	4743.2	3933.8	3665.2	3455.7	3092.7	2869.0	2765.9	3075.1
47.5°	6968.5	6990.4	6491.3	5342.0	4374.7	4035.8	3766.1	3305.4	2998.3	2864.6	3207.8
50°	7862.3	7877.5	7290.8	6005.5	4874.8	4454.8	4114.8	3543.4	3178.2	3005.0	3406.4
52.5°	8559.7	8561.9	8016.8	6699.7	5395.7	4915.4	4490.9	3815.5	3386.6	3191.4	3670.6
55°	8996.2	8990.7	8525.7	7356.6	5994.5	5399.1	4907.7	4124.7	3641.0	3410.7	4002.9
57.5°	9313.2	9296.8	8876.7	7921.4	6632.8	5970.4	5379.3	4475.7	3941.5	3671.8	4440.5
60°	9433.8	9424.0	9114.6	8409.5	7304.0	6602.1	5923.3	4868.2	4282.6	3979.9	5003.1
62.5°	9479.8	9498.5	9348.2	8882.1	8022.4	7301.8	6520.9	5337.6	4666.4	4328.7	5596.4
65°	9642.2	9676.2	9645.5	9500.7	8833.9	8121.1	7313.9	5895.8	5085.4	4702.6	6216.1
67.5°	9963.5	9997.5	10010.7	10241.0	9825.3	9142.1	8303.1	6591.2	5575.6	5090.9	6682.2
70°	9955.8	9946.0	10178.5	10829.8	11066.8	10555.8	9636.6	7446.6	6160.1	5413.3	6741.4
72.5°	9062.0	8983.0	9532.5	10823.3	12099.8	12031.9	11265.3	8549.8	6664.7	5452.8	5849.8
75°	6798.4	6587.9	7558.5	9754.0	12272.0	12869.7	12300.5	9234.2	6545.1	4817.8	4070.9
77.5°	2907.3	2695.6	3839.5	7220.6	10983.4	12030.7	11350.8	8056.3	5224.6	3185.9	1999.3
80°	761.1	760.0	1160.3	3273.6	7469.6	8884.4	7794.2	5202.7	2985.2	1138.4	551.7
82.5°	314.8	307.1	426.6	1273.3	3649.8	4985.6	4068.7	2320.6	1078.1	308.2	183.2
85°	117.4	116.2	207.3	439.7	1287.5	2056.4	1488.2	593.3	268.7	150.3	82.2
87.5°	32.9	31.8	45.0	152.4	313.6	476.0	254.4	97.6	75.6	59.2	24.1
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°	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5	2364.5
2.5°	2372.2	2377.6	2387.5	2395.2	2405.1	2416.0	2431.4	2441.2	2451.1	2457.7	2453.3
5°	2382.0	2394.1	2419.3	2444.5	2474.1	2501.6	2533.4	2556.5	2575.0	2580.5	2582.7
7.5°	2403.9	2423.7	2466.5	2509.2	2556.5	2601.3	2647.5	2686.9	2718.7	2730.8	2731.8
10°	2442.4	2468.7	2529.0	2589.3	2651.8	2720.9	2780.1	2837.2	2882.1	2900.7	2901.9
12.5°	2490.6	2523.5	2602.5	2685.8	2772.4	2867.8	2944.6	3014.8	3070.8	3096.0	3096.0
15°	2553.1	2595.9	2696.8	2808.6	2935.9	3068.5	3166.1	3244.0	3306.5	3337.3	3335.0
17.5°	2621.1	2678.1	2805.3	2974.2	3156.3	3330.6	3444.7	3501.7	3566.5	3596.1	3595.0
20°	2686.9	2757.1	2939.2	3184.8	3427.2	3612.5	3704.7	3720.0	3724.3	3727.7	3736.4
22.5°	2754.9	2849.2	3107.0	3450.3	3710.1	3838.4	3851.6	3785.8	3693.7	3650.9	3662.9
25°	2829.5	2954.5	3326.3	3743.0	3953.6	3968.9	3868.0	3707.9	3533.6	3453.5	3465.5
27.5°	2901.9	3076.2	3589.4	4022.7	4129.1	3994.2	3777.0	3550.0	3339.4	3255.0	3264.8
30°	2974.2	3215.5	3880.1	4267.3	4209.2	3931.7	3633.3	3380.0	3168.4	3079.5	3089.4
32.5°	3047.7	3377.8	4214.6	4443.8	4194.9	3799.0	3454.6	3189.2	3002.7	2909.6	2921.6
35°	3131.1	3577.5	4531.5	4540.3	4099.5	3603.8	3218.8	2961.1	2798.8	2724.2	2740.6
37.5°	3239.6	3830.7	4811.2	4564.4	3932.7	3317.5	2926.0	2691.3	2557.5	2523.5	2547.6
40°	3374.5	4135.7	5025.1	4526.1	3686.0	2969.8	2605.8	2418.2	2342.5	2350.2	2376.6
42.5°	3550.0	4476.7	5175.3	4427.4	3342.7	2611.2	2325.0	2241.7	2277.9	2308.5	2337.1
45°	3778.2	4830.9	5268.5	4259.6	2954.5	2307.5	2159.4	2179.1	2206.5	2209.8	2231.7
47.5°	4069.9	5189.6	5330.0	4006.2	2558.6	2093.6	2054.1	2058.5	2053.0	2030.0	2047.5
50°	4433.9	5538.3	5384.7	3670.6	2221.9	1959.8	1907.1	1891.8	1816.1	1741.6	1751.4
52.5°	4848.5	5858.6	5407.8	3253.9	1959.8	1848.0	1762.4	1665.9	1524.4	1501.4	1509.0
55°	5309.1	6154.7	5348.6	2741.8	1739.3	1704.3	1574.8	1458.6	1443.3	1423.5	1426.8
57.5°	5859.6	6473.8	5227.9	2170.3	1513.4	1536.5	1410.4	1423.5	1396.0	1365.4	1359.9
60°	6461.7	6804.0	5016.2	1649.4	1279.8	1327.0	1367.6	1366.5	1358.8	1333.6	1324.8
62.5°	7003.5	7021.0	4599.6	1263.4	1074.7	1164.7	1275.5	1274.4	1267.8	1253.6	1248.0
65°	7326.0	6988.1	3904.2	994.7	905.9	1030.9	1150.5	1159.2	1160.3	1159.2	1159.2
67.5°	7268.9	6603.3	2950.2	791.8	766.6	894.9	1026.5	1038.5	1047.3	1049.5	1051.8
70°	6624.1	5757.6	1923.6	631.7	642.7	775.4	909.2	921.3	928.9	937.7	942.1
72.5°	5163.2	4233.2	1101.1	511.1	534.1	672.3	792.9	807.2	811.6	828.0	834.6
75°	3146.4	2489.5	594.4	402.5	438.7	574.7	677.7	694.2	701.9	721.6	723.9
77.5°	1495.9	1078.1	338.9	313.6	353.1	469.3	572.5	591.1	570.3	581.3	572.5
80°	505.5	400.3	213.8	239.0	269.8	366.3	458.4	477.0	433.2	431.0	426.6
82.5°	176.6	162.4	136.0	159.0	174.4	262.1	346.6	370.6	322.5	321.3	306.0
85°	69.1	65.8	75.6	86.6	104.1	161.2	228.1	240.2	198.5	160.1	158.0
87.5°	14.2	15.4	18.7	19.8	31.8	56.0	82.2	100.9	80.1	68.0	62.5
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)