

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: P967866

Luminaire Tested: **NVN-SB5A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20156.6 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

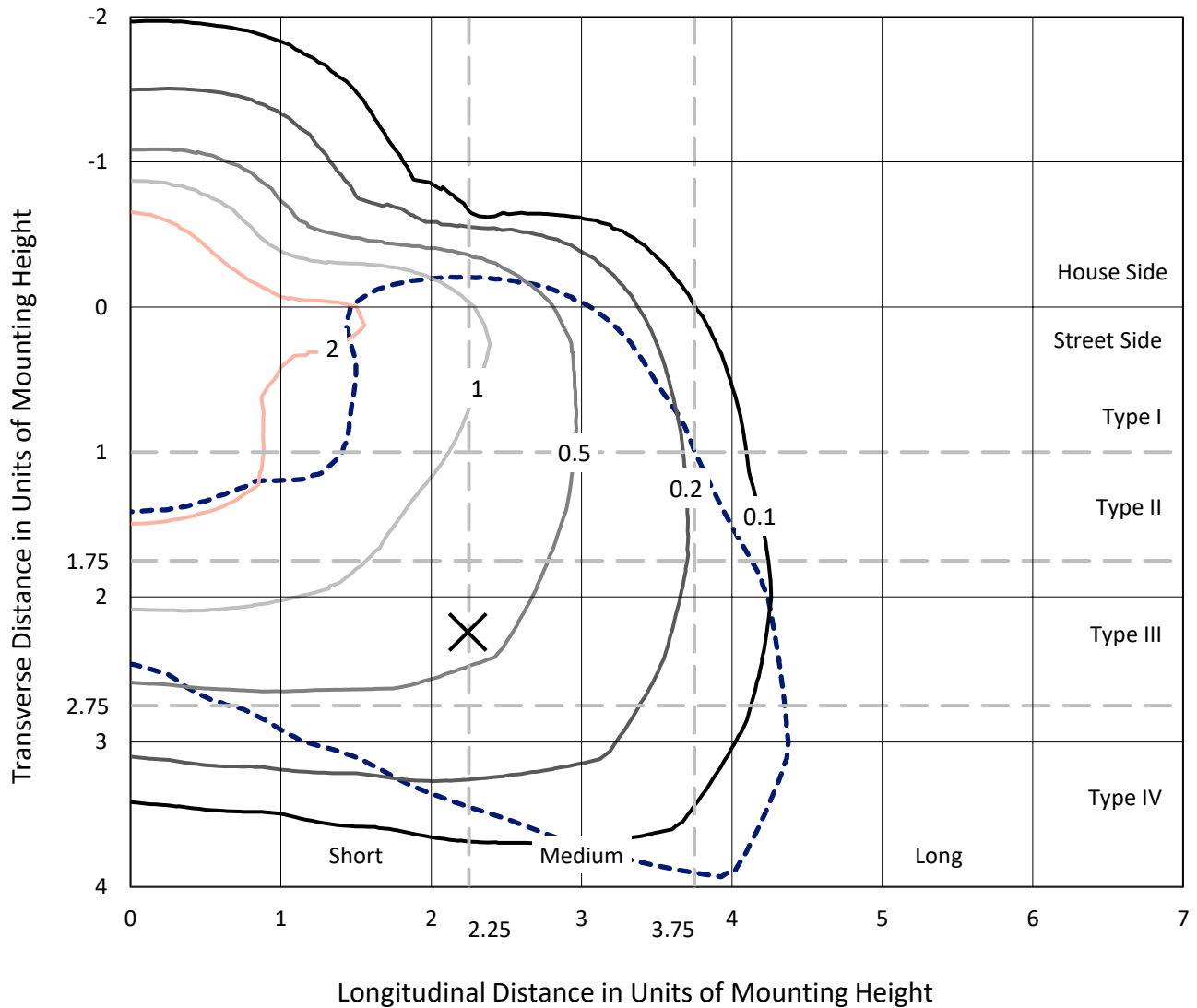
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

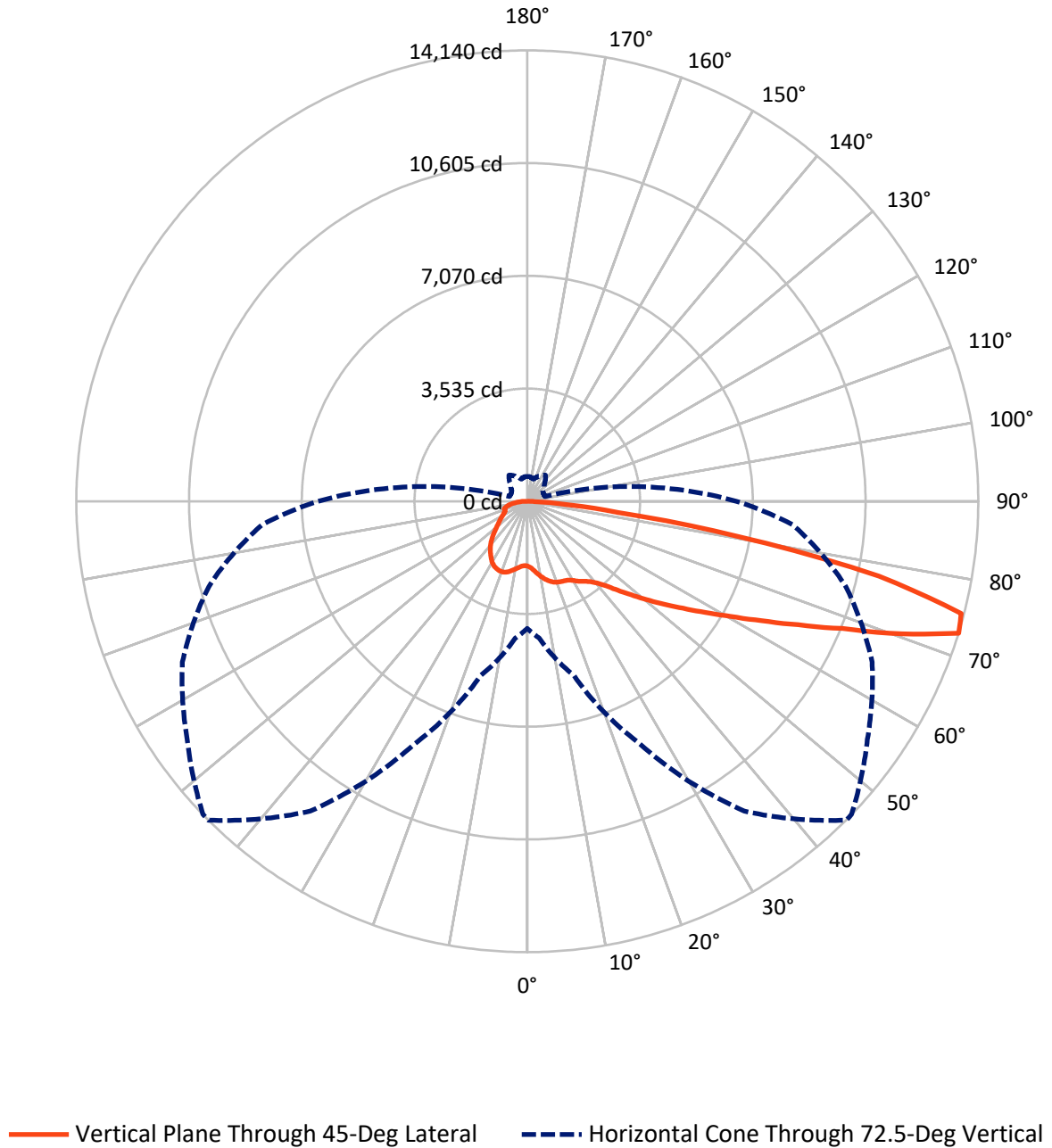
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4556.7	0.0	4556.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15599.9	0.0	15599.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	20156.6	0.0	20156.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	1.0
10°-20°	690.0	3.4
20°-30°	1200.4	6.0
30°-40°	1720.8	8.5
40°-50°	2423.0	12.0
50°-60°	3711.2	18.4
60°-70°	5376.3	26.7
70°-80°	4293.3	21.3
80°-90°	534.7	2.7
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°	20156.6	100.0
0°-180°	20156.6	100.0



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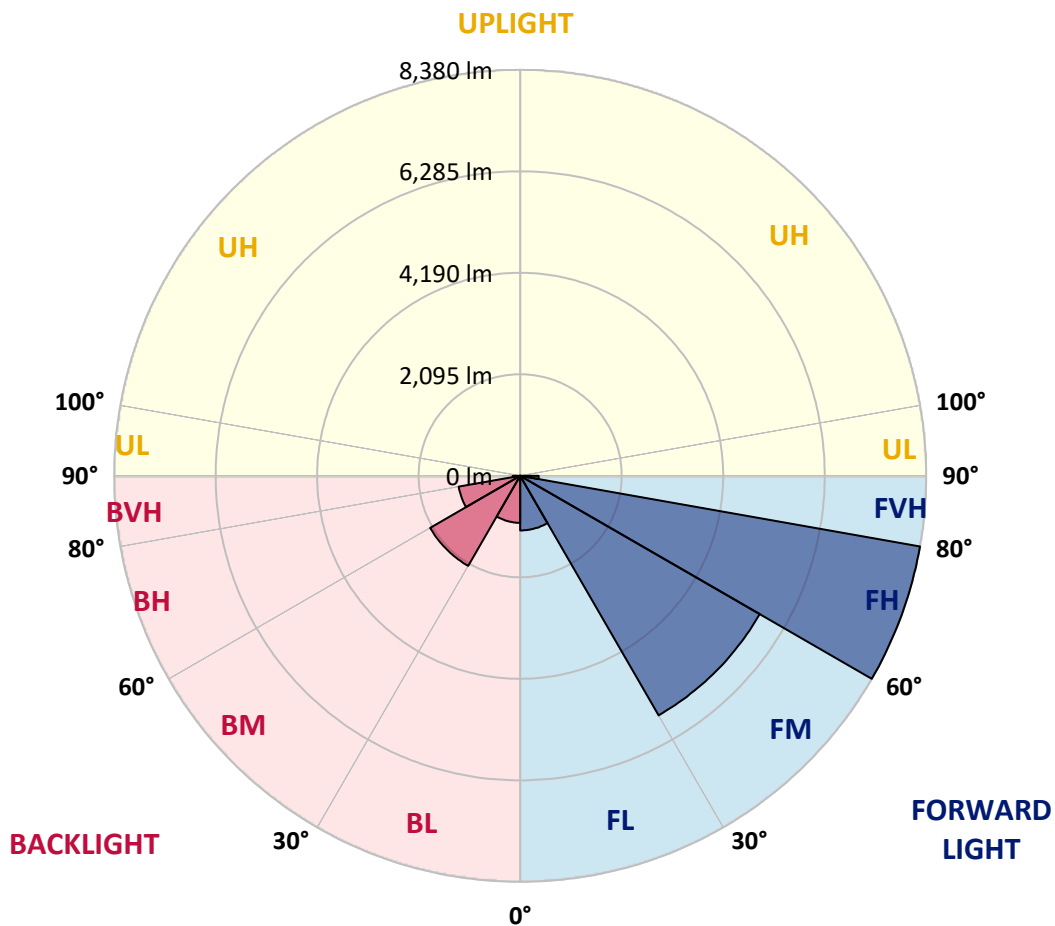
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.2	5.6			
FM (30°-60°)	5709.4	28.3			
FH (60°-80°)	8379.7	41.6			G4/12000
FVH (80°-90°)	383.6	1.9			G3/500
BL (0°-30°)	970.2	4.8	B2/1000		
BM (30°-60°)	2145.6	10.6	B2/2500		
BH (60°-80°)	1289.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	151.1	0.7			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2113.0	2126.9	2114.1	2102.5	2097.1	2083.3	2082.3	2073.8	2068.4	2053.6	2049.4
5°	2260.6	2278.7	2257.5	2234.1	2212.9	2178.8	2174.6	2150.2	2122.6	2090.8	2072.7
7.5°	2427.3	2443.3	2418.9	2383.8	2346.6	2290.4	2289.3	2244.8	2201.2	2147.1	2116.2
10°	2572.9	2594.1	2561.2	2513.4	2466.7	2402.9	2395.5	2344.5	2289.3	2219.2	2172.5
12.5°	2701.3	2716.1	2684.3	2625.9	2571.7	2508.1	2498.5	2442.3	2380.7	2301.0	2241.6
15°	2803.3	2822.3	2779.9	2717.3	2659.9	2597.2	2588.7	2537.8	2476.2	2392.4	2315.9
17.5°	2870.1	2886.1	2842.5	2772.4	2717.3	2665.2	2658.8	2616.3	2562.2	2477.2	2395.5
20°	2895.6	2912.6	2866.9	2795.8	2744.8	2704.5	2701.3	2670.5	2633.3	2555.8	2473.0
22.5°	2921.1	2937.0	2877.6	2803.3	2758.7	2733.2	2732.1	2711.9	2697.1	2633.3	2552.7
25°	3024.1	3028.4	2948.7	2841.5	2777.7	2755.5	2754.4	2753.4	2759.7	2709.8	2638.7
27.5°	3113.3	3112.2	3044.2	2943.4	2844.7	2797.9	2796.9	2807.5	2827.7	2786.3	2727.8
30°	3243.9	3232.2	3151.6	3046.4	2956.1	2883.9	2877.6	2868.1	2883.9	2851.0	2817.0
32.5°	3521.1	3483.9	3353.3	3166.4	3048.6	2993.3	2984.8	2925.4	2931.7	2911.5	2894.6
35°	3918.2	3869.3	3695.2	3393.6	3163.3	3084.6	3080.3	3005.0	2992.3	2974.2	2980.6
37.5°	4390.7	4330.1	4127.4	3722.8	3360.7	3190.8	3184.5	3116.5	3064.4	3045.4	3081.5
40°	4865.4	4788.9	4621.1	4124.2	3651.7	3368.2	3348.0	3244.9	3185.5	3153.6	3230.1
42.5°	5326.2	5262.5	5119.1	4574.4	4010.5	3627.3	3582.6	3406.4	3361.8	3332.1	3470.0
45°	5733.8	5676.6	5571.5	5055.4	4431.1	3979.8	3936.2	3648.5	3634.6	3634.6	3834.3
47.5°	6065.2	6052.4	5941.0	5546.0	4926.9	4381.2	4305.7	3985.1	4022.2	4079.6	4351.4
50°	6432.6	6397.5	6278.6	6029.0	5509.9	4840.9	4779.3	4398.1	4537.3	4694.4	5099.0
52.5°	6770.2	6789.4	6656.7	6532.4	6168.1	5353.8	5245.4	4885.5	5186.0	5446.1	5974.9
55°	7117.5	7118.5	7081.4	7064.4	6858.4	5920.8	5801.8	5471.7	5949.4	6272.3	6996.4
57.5°	7443.4	7445.6	7500.7	7650.5	7659.0	6574.9	6440.0	6191.5	6797.9	7127.0	8049.7
60°	7734.4	7749.3	7900.1	8250.4	8363.0	7324.5	7197.1	7042.1	7674.9	8006.3	9157.2
62.5°	7832.1	7886.2	8221.7	8719.8	9058.5	8244.1	8118.8	8026.4	8596.6	8904.6	10083.1
65°	7666.5	7790.7	8439.4	9107.3	9774.2	9336.7	9212.5	9111.6	9554.3	9844.3	10843.5
67.5°	7259.8	7420.1	8426.7	9514.0	10642.8	10651.3	10535.5	10298.7	10581.2	10692.7	11090.8
70°	6188.3	6428.4	7684.5	9665.9	11639.8	12448.9	12337.4	11727.9	11605.9	11066.4	10394.3
72.5°	3987.1	4310.0	5658.5	8416.1	11861.7	14140.4	14134.0	13018.1	11929.7	10340.1	8336.4
75°	1454.7	1652.2	2629.1	5282.6	9956.8	14054.4	14095.8	12797.2	10890.2	7987.1	5193.5
77.5°	529.8	579.7	857.9	2030.2	6123.6	11276.6	11362.6	10230.7	7751.4	4008.5	2057.8
80°	278.2	305.8	439.6	787.9	2623.8	6696.9	6831.8	6080.1	3643.2	1207.3	616.9
82.5°	154.0	166.7	246.3	427.9	1181.8	2863.7	2944.4	2401.9	1281.7	511.8	254.8
85°	82.8	88.1	115.7	233.6	577.6	992.8	1015.2	717.8	510.8	300.5	123.2
87.5°	24.4	29.7	38.2	74.3	226.2	222.9	228.3	142.3	201.7	151.8	40.4
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°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2042.9	2039.7	2028.1	2022.8	2016.4	2015.4	2020.7	2021.7	2022.8	2023.9	2028.1
5°	2062.1	2051.4	2040.9	2034.5	2036.6	2037.7	2048.3	2055.7	2061.1	2065.3	2067.4
7.5°	2099.2	2090.8	2072.7	2071.6	2074.8	2084.3	2098.2	2115.2	2124.7	2132.2	2134.3
10°	2154.4	2138.6	2117.3	2120.5	2126.9	2140.6	2169.3	2183.1	2199.0	2212.9	2209.7
12.5°	2210.7	2196.9	2172.5	2174.6	2185.3	2209.7	2237.3	2254.3	2264.8	2275.5	2279.8
15°	2284.0	2259.6	2233.1	2233.1	2252.1	2278.7	2291.4	2305.2	2311.6	2323.3	2327.6
17.5°	2359.3	2327.6	2292.5	2290.4	2313.7	2326.4	2333.9	2336.1	2338.1	2350.9	2355.1
20°	2434.8	2399.7	2349.8	2345.6	2350.9	2348.8	2347.8	2345.6	2348.8	2364.7	2371.0
22.5°	2509.1	2468.7	2399.7	2380.7	2365.8	2345.6	2344.5	2343.5	2345.6	2361.5	2372.2
25°	2596.2	2547.3	2455.0	2397.6	2347.8	2320.1	2323.3	2324.4	2326.4	2339.3	2356.2
27.5°	2690.7	2636.5	2505.9	2392.4	2302.0	2283.0	2277.7	2280.8	2288.2	2308.4	2328.6
30°	2785.2	2721.5	2552.7	2371.0	2244.8	2218.2	2201.2	2208.6	2231.9	2252.1	2274.5
32.5°	2871.2	2807.5	2589.8	2324.4	2171.5	2130.1	2107.7	2117.3	2140.6	2148.1	2174.6
35°	2972.1	2899.8	2605.8	2250.0	2091.8	2028.1	1998.3	1984.6	1996.3	1988.8	2012.2
37.5°	3084.6	3009.2	2603.6	2152.3	1998.3	1925.2	1883.6	1831.7	1807.3	1781.8	1797.6
40°	3251.3	3143.1	2578.2	2034.5	1882.6	1815.7	1741.4	1653.3	1598.1	1548.2	1551.3
42.5°	3478.5	3328.9	2531.4	1905.0	1752.0	1689.4	1588.5	1485.5	1398.4	1315.6	1308.2
45°	3817.3	3572.0	2473.0	1766.9	1610.8	1549.2	1439.8	1324.1	1225.4	1119.2	1106.4
47.5°	4305.7	3899.1	2417.8	1609.8	1462.2	1405.9	1307.1	1199.9	1083.1	980.1	968.4
50°	4976.8	4368.3	2366.8	1456.8	1315.6	1273.2	1194.5	1085.2	967.3	884.5	879.2
52.5°	5830.5	5006.5	2345.6	1309.2	1178.6	1162.7	1100.0	998.1	886.6	816.5	811.3
55°	6810.6	5770.0	2345.6	1168.0	1058.6	1063.9	1020.4	925.9	829.3	766.6	760.2
57.5°	7810.8	6543.0	2303.1	1037.4	956.7	979.0	951.4	868.6	781.5	716.8	706.1
60°	8732.5	7190.8	2131.1	918.5	866.4	901.5	883.4	812.3	706.1	652.0	643.5
62.5°	9440.8	7556.0	1799.8	824.0	792.1	832.5	822.9	738.0	692.3	670.0	662.6
65°	9795.4	7496.5	1376.2	740.0	729.5	792.1	771.9	768.7	732.7	707.1	698.6
67.5°	9577.7	6984.8	998.1	678.6	693.4	754.9	832.5	845.2	778.3	728.5	720.0
70°	8623.1	6058.8	743.3	620.1	647.7	756.0	949.3	884.5	763.4	705.1	695.5
72.5°	6560.0	4518.1	576.6	558.5	588.2	761.4	1001.3	866.4	721.0	779.4	773.1
75°	3751.5	2480.4	463.0	483.2	513.9	711.5	974.8	819.7	688.1	715.7	715.7
77.5°	1430.3	953.6	382.2	408.8	413.1	621.2	932.3	816.5	655.2	639.2	582.9
80°	495.9	372.7	316.4	324.9	319.6	552.2	894.1	710.3	536.2	479.9	464.0
82.5°	202.8	185.8	250.6	240.0	227.2	429.0	722.0	580.9	438.5	387.6	383.3
85°	88.1	117.9	165.6	145.4	131.7	297.4	578.7	491.6	370.5	319.6	318.6
87.5°	18.0	44.6	70.1	65.8	68.0	198.5	410.9	349.3	262.3	196.4	154.0
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)