

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: P964704

Luminaire Tested: **NVN-SB3C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964704
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-SB3C-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19988.5 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

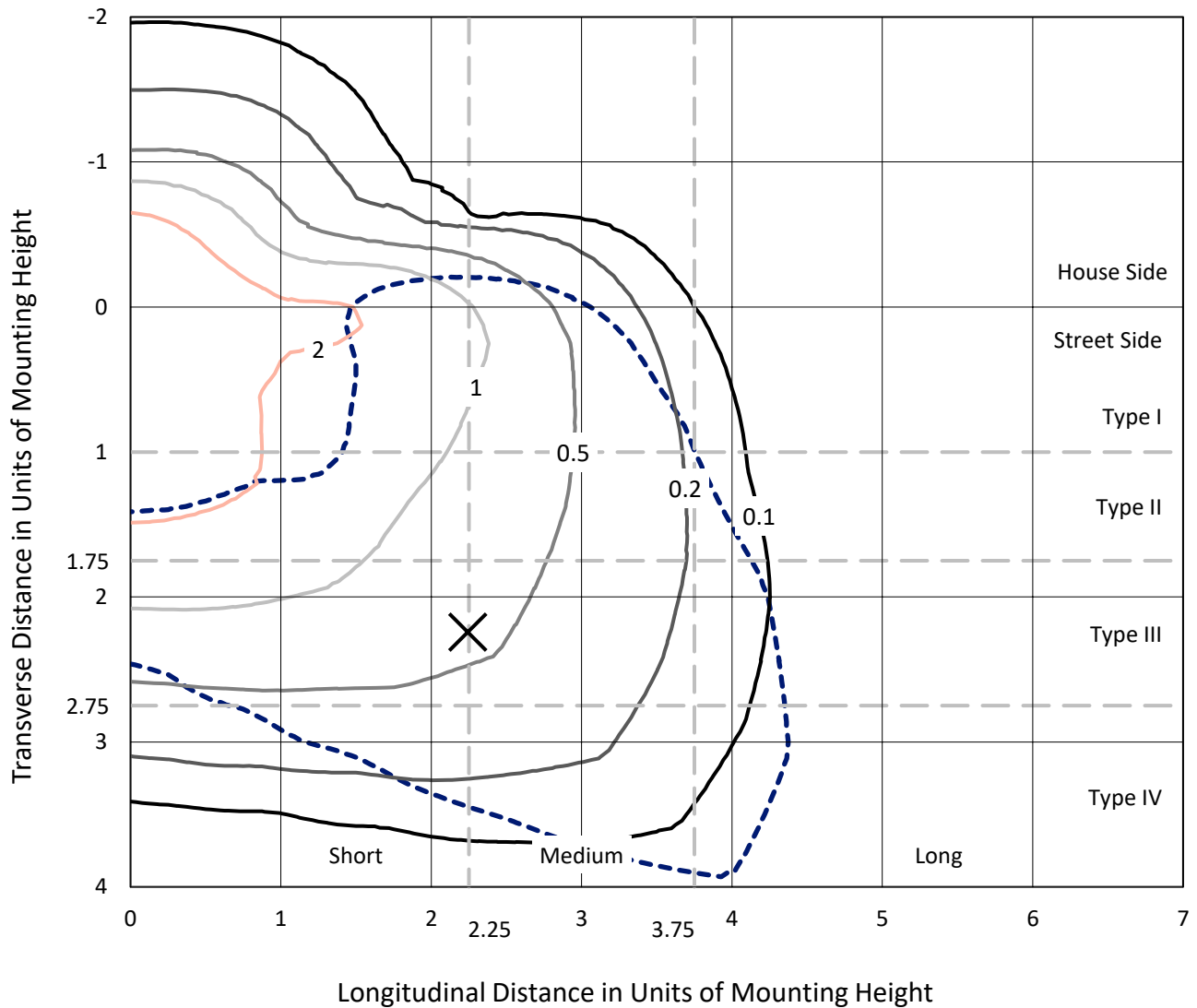
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

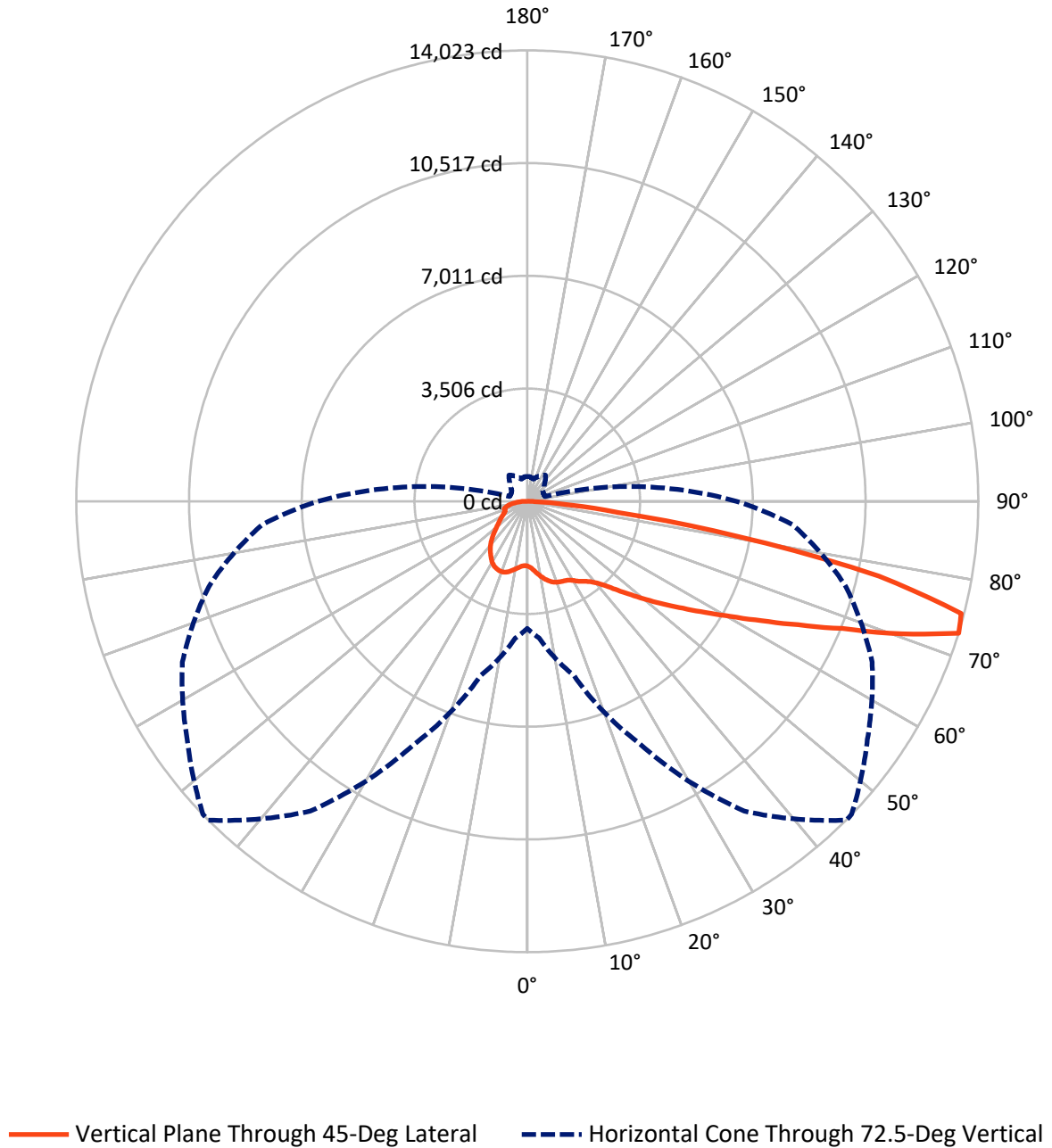
✕ Max cd
 - - - 1/2 Max cd



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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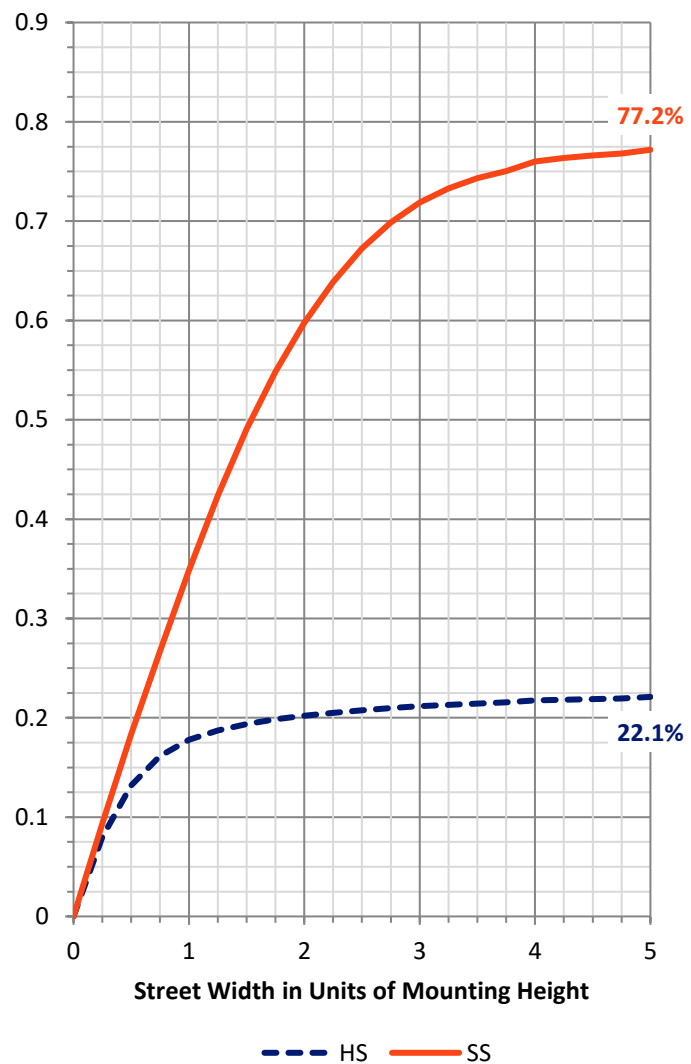
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4518.7	0.0	4518.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15469.8	0.0	15469.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	19988.5	0.0	19988.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	1.0
10°-20°	684.3	3.4
20°-30°	1190.3	6.0
30°-40°	1706.4	8.5
40°-50°	2402.7	12.0
50°-60°	3680.3	18.4
60°-70°	5331.5	26.7
70°-80°	4257.5	21.3
80°-90°	530.3	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°	19988.5	100.0
0°-180°	19988.5	100.0

Coefficient of Utilization



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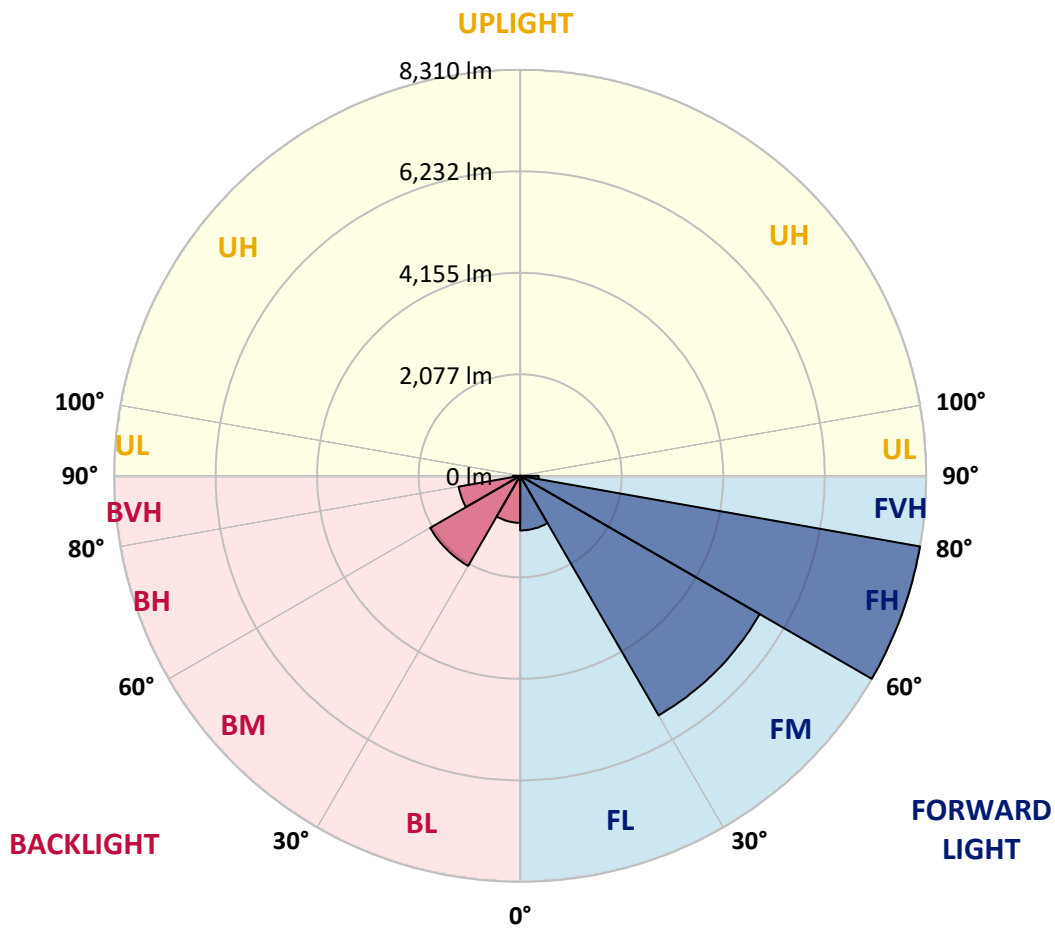
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.8	5.6			
FM (30°-60°)	5661.8	28.3			
FH (60°-80°)	8309.8	41.6			G4/12000
FVH (80°-90°)	380.4	1.9			G3/500
BL (0°-30°)	962.1	4.8	B2/1000		
BM (30°-60°)	2127.7	10.6	B2/2500		
BH (60°-80°)	1279.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	149.8	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°	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5
2.5°	2095.4	2109.1	2096.4	2084.8	2079.6	2066.0	2064.9	2056.5	2051.2	2036.5	2032.3
5°	2241.8	2259.7	2238.6	2215.4	2194.4	2160.7	2156.5	2132.3	2104.9	2073.3	2055.4
7.5°	2407.1	2422.9	2398.7	2364.0	2327.1	2271.3	2270.2	2226.0	2182.8	2129.1	2098.6
10°	2551.3	2572.4	2539.7	2492.4	2446.1	2382.9	2375.5	2325.0	2270.2	2200.7	2154.3
12.5°	2678.7	2693.5	2661.9	2604.0	2550.3	2487.2	2477.6	2421.9	2360.8	2281.8	2222.8
15°	2779.9	2798.9	2756.7	2694.5	2637.7	2575.6	2567.1	2516.6	2455.6	2372.4	2296.5
17.5°	2846.2	2862.0	2818.9	2749.4	2694.5	2643.0	2636.6	2594.6	2540.9	2456.6	2375.5
20°	2871.4	2888.3	2843.0	2772.5	2722.0	2681.9	2678.7	2648.2	2611.4	2534.5	2452.4
22.5°	2896.8	2912.5	2853.6	2779.9	2735.6	2710.4	2709.3	2689.3	2674.5	2611.4	2531.3
25°	2998.8	3003.0	2924.1	2817.7	2754.6	2732.4	2731.4	2730.4	2736.6	2687.2	2616.6
27.5°	3087.3	3086.3	3018.9	2918.9	2820.9	2774.6	2773.5	2784.1	2804.1	2763.0	2705.1
30°	3216.9	3205.3	3125.2	3021.0	2931.5	2859.9	2853.6	2844.1	2859.9	2827.3	2793.5
32.5°	3491.7	3454.9	3325.3	3140.0	3023.1	2968.3	2959.9	2901.0	2907.3	2887.2	2870.4
35°	3885.5	3837.1	3664.4	3365.3	3136.8	3058.9	3054.7	2979.9	2967.3	2949.4	2955.7
37.5°	4354.1	4294.0	4092.9	3691.7	3332.7	3164.2	3157.9	3090.5	3038.9	3020.0	3055.7
40°	4824.8	4748.9	4582.6	4089.7	3621.2	3340.1	3320.1	3217.9	3158.9	3127.4	3203.1
42.5°	5281.7	5218.6	5076.4	4536.2	3977.1	3596.9	3552.8	3378.0	3333.7	3304.3	3441.1
45°	5686.1	5629.2	5525.0	5013.3	4394.1	3946.6	3903.4	3618.0	3604.3	3604.3	3802.3
47.5°	6014.6	6002.0	5891.4	5499.7	4885.9	4344.6	4269.8	3951.8	3988.7	4045.6	4315.1
50°	6379.0	6344.2	6226.3	5978.8	5463.9	4800.5	4739.5	4361.5	4499.3	4655.2	5056.4
52.5°	6713.7	6732.7	6601.1	6477.9	6116.8	5309.1	5201.7	4844.8	5142.7	5400.7	5925.1
55°	7058.2	7059.2	7022.3	7005.5	6801.2	5871.4	5753.4	5426.0	5899.8	6219.9	6938.1
57.5°	7381.3	7383.5	7438.2	7586.7	7595.1	6520.0	6386.3	6140.0	6741.1	7067.6	7982.6
60°	7669.9	7684.6	7834.2	8181.7	8293.3	7263.5	7137.1	6983.3	7610.9	7939.4	9080.9
62.5°	7766.7	7820.4	8153.3	8647.1	8983.0	8175.3	8051.1	7959.4	8524.9	8830.3	9999.1
65°	7602.5	7725.7	8369.0	9031.4	9692.7	9258.8	9135.6	9035.6	9474.7	9762.2	10753.0
67.5°	7199.2	7358.2	8356.4	9434.7	10554.0	10562.4	10447.6	10212.8	10492.9	10603.5	10998.4
70°	6136.8	6374.7	7620.4	9585.3	11542.7	12345.1	12234.5	11630.2	11509.0	10974.2	10307.6
72.5°	3953.9	4274.0	5611.4	8345.9	11762.8	14022.5	14016.2	12909.5	11830.2	10253.9	8266.9
75°	1442.6	1638.5	2607.2	5238.6	9873.8	13937.2	13978.3	12690.5	10799.3	7920.5	5150.1
77.5°	525.4	574.9	850.9	2013.3	6072.5	11182.6	11267.9	10145.4	7686.8	3975.0	2040.7
80°	275.9	303.3	435.9	781.4	2601.9	6641.2	6774.8	6029.4	3612.8	1197.2	611.8
82.5°	152.7	165.3	244.3	424.4	1172.0	2839.9	2919.9	2381.8	1270.9	507.6	252.8
85°	82.1	87.4	114.8	231.6	572.8	984.5	1006.7	711.9	506.5	298.0	122.2
87.5°	24.2	29.5	37.9	73.7	224.3	221.1	226.4	141.1	200.1	150.6	40.0
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°	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5	2016.5
2.5°	2025.9	2022.7	2011.2	2005.9	1999.6	1998.5	2003.8	2004.9	2005.9	2007.0	2011.2
5°	2044.9	2034.3	2023.9	2017.5	2019.7	2020.7	2031.2	2038.5	2043.8	2048.1	2050.1
7.5°	2081.8	2073.3	2055.4	2054.4	2057.5	2067.0	2080.6	2097.6	2107.0	2114.4	2116.5
10°	2136.5	2120.7	2099.6	2102.8	2109.1	2122.8	2151.3	2164.9	2180.7	2194.4	2191.2
12.5°	2192.3	2178.6	2154.3	2156.5	2167.1	2191.2	2218.6	2235.4	2246.0	2256.5	2260.7
15°	2264.9	2240.8	2214.4	2214.4	2233.4	2259.7	2272.3	2286.1	2292.3	2303.9	2308.1
17.5°	2339.8	2308.1	2273.3	2271.3	2294.5	2307.1	2314.4	2316.6	2318.7	2331.3	2335.5
20°	2414.5	2379.7	2330.2	2326.0	2331.3	2329.2	2328.2	2326.0	2329.2	2345.0	2351.4
22.5°	2488.2	2448.2	2379.7	2360.8	2346.0	2326.0	2325.0	2323.9	2326.0	2341.8	2352.4
25°	2574.5	2526.1	2434.5	2377.6	2328.2	2300.7	2303.9	2305.0	2307.1	2319.7	2336.6
27.5°	2668.3	2614.6	2485.0	2372.4	2282.9	2263.9	2258.6	2261.8	2269.1	2289.1	2309.2
30°	2762.0	2698.8	2531.3	2351.4	2226.0	2199.6	2182.8	2190.2	2213.4	2233.4	2255.5
32.5°	2847.2	2784.1	2568.2	2305.0	2153.3	2112.3	2090.2	2099.6	2122.8	2130.2	2156.5
35°	2947.3	2875.6	2584.0	2231.2	2074.4	2011.2	1981.7	1968.0	1979.6	1972.2	1995.4
37.5°	3058.9	2984.2	2581.9	2134.4	1981.7	1909.1	1868.0	1816.4	1792.2	1766.9	1782.7
40°	3224.2	3116.8	2556.7	2017.5	1866.9	1800.6	1726.9	1639.5	1584.8	1535.2	1538.4
42.5°	3449.5	3301.1	2510.3	1889.1	1737.4	1675.3	1575.2	1473.1	1386.7	1304.6	1297.2
45°	3785.4	3542.2	2452.4	1752.1	1597.4	1536.3	1427.8	1313.0	1215.1	1109.9	1097.2
47.5°	4269.8	3866.5	2397.7	1596.3	1450.0	1394.1	1296.2	1189.8	1074.0	971.9	960.3
50°	4935.3	4332.0	2347.0	1444.6	1304.6	1262.5	1184.6	1076.1	959.3	877.1	871.9
52.5°	5781.9	4964.8	2326.0	1298.4	1168.8	1153.0	1090.9	989.8	879.2	809.7	804.5
55°	6753.8	5721.9	2326.0	1158.2	1049.8	1055.1	1011.9	918.2	822.4	760.2	753.9
57.5°	7745.7	6488.5	2283.9	1028.8	948.7	970.9	943.5	861.3	775.0	710.7	700.3
60°	8659.7	7130.7	2113.3	910.8	859.3	894.0	876.1	805.5	700.3	646.6	638.1
62.5°	9362.0	7493.0	1784.8	817.1	785.6	825.5	816.1	731.8	686.5	664.4	657.0
65°	9713.7	7434.0	1364.7	733.9	723.4	785.6	765.5	762.4	726.5	701.3	692.9
67.5°	9497.9	6926.5	989.8	672.8	687.6	748.7	825.5	838.1	771.8	722.3	713.9
70°	8551.3	6008.2	737.1	614.9	642.4	749.7	941.4	877.1	757.1	699.2	689.7
72.5°	6505.3	4480.4	571.7	553.9	583.3	755.0	992.9	859.3	714.9	772.8	766.6
75°	3720.1	2459.8	459.1	479.1	509.6	705.5	966.7	812.9	682.3	709.7	709.7
77.5°	1418.4	945.6	379.0	405.4	409.6	616.0	924.6	809.7	649.6	633.9	578.1
80°	491.7	369.6	313.8	322.3	316.9	547.6	886.6	704.5	531.8	475.9	460.1
82.5°	201.1	184.3	248.5	238.0	225.3	425.4	716.1	575.9	434.9	384.4	380.2
85°	87.4	116.8	164.3	144.2	130.6	294.8	573.9	487.5	367.5	316.9	315.9
87.5°	17.9	44.2	69.5	65.3	67.3	196.9	407.5	346.4	260.0	194.7	152.7
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)