

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: P962575

Luminaire Tested: **NVN-SB2C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2C-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13046.2 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

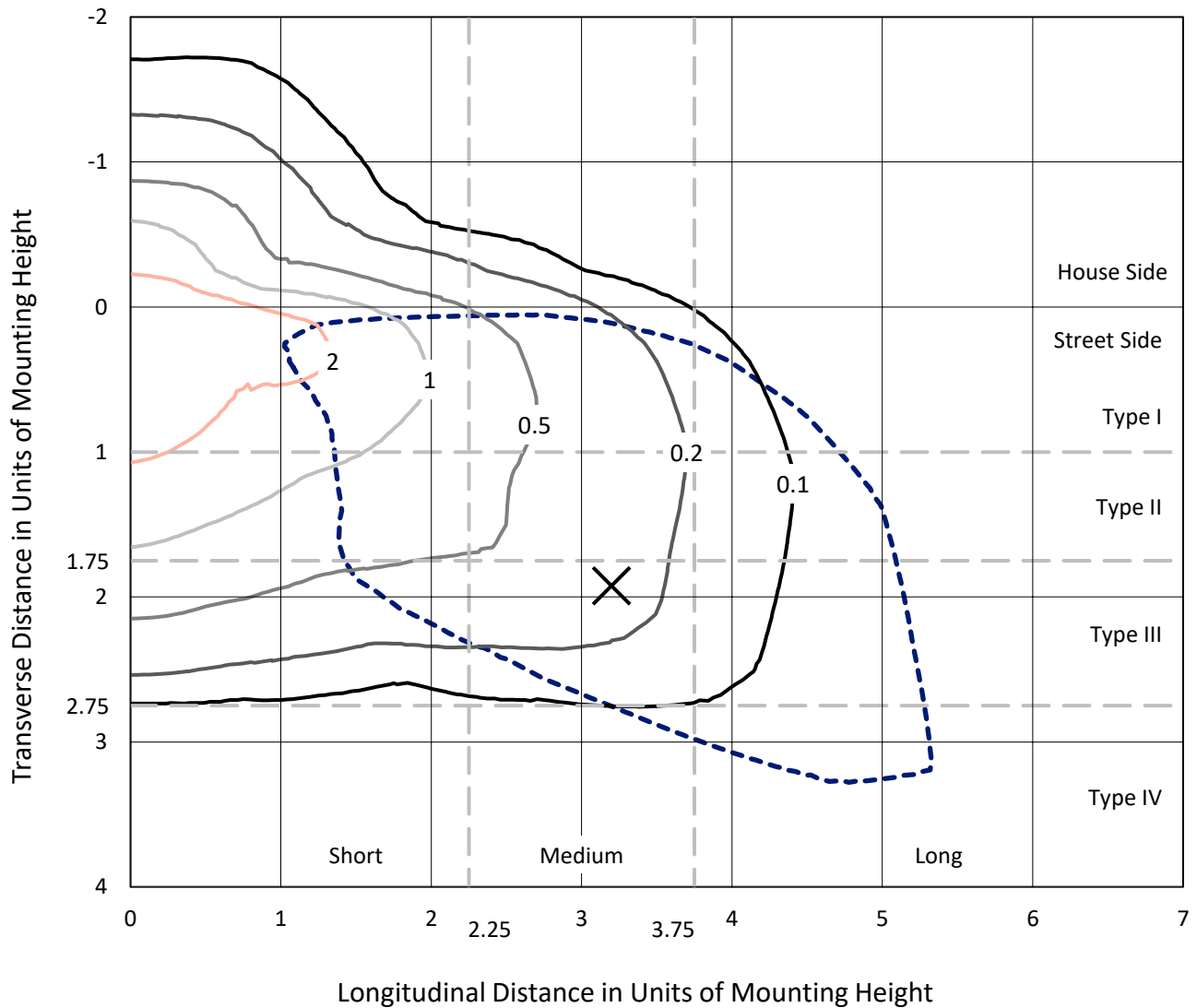
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

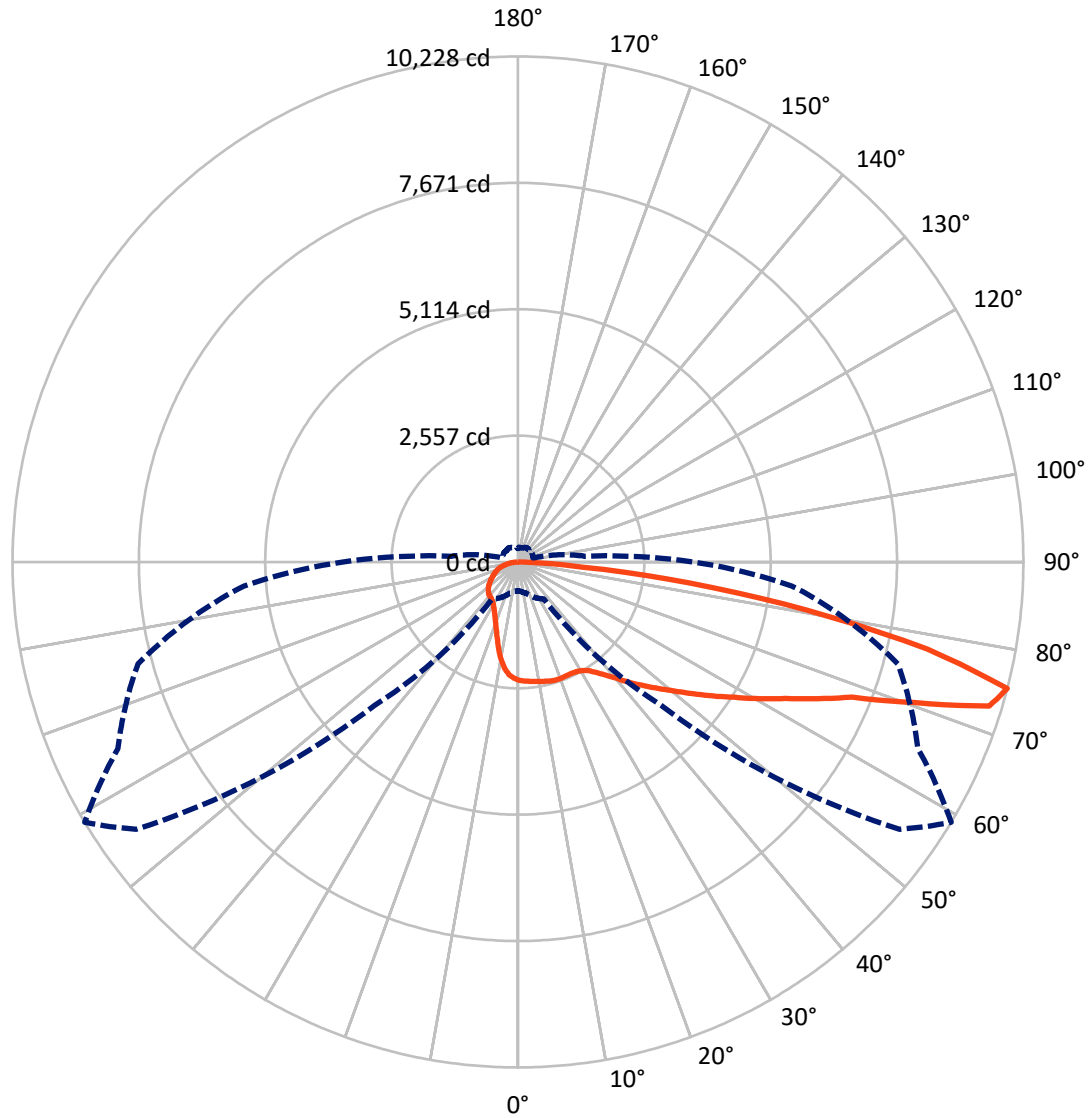
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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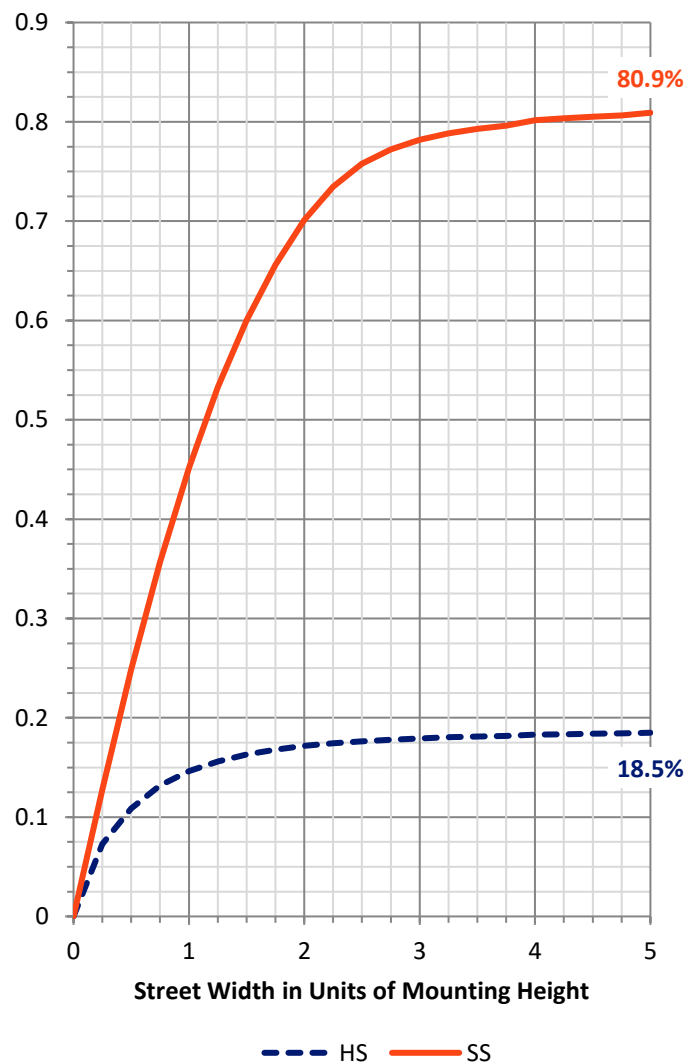
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2446.9	0.0	2446.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10599.3	0.0	10599.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	13046.2	0.0	13046.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.6
10°-20°	548.8	4.2
20°-30°	833.6	6.4
30°-40°	1239.2	9.5
40°-50°	1842.8	14.1
50°-60°	2501.4	19.2
60°-70°	3053.8	23.4
70°-80°	2396.6	18.4
80°-90°	415.1	3.2
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°	13046.2	100.0
0°-180°	13046.2	100.0

Coefficient of Utilization



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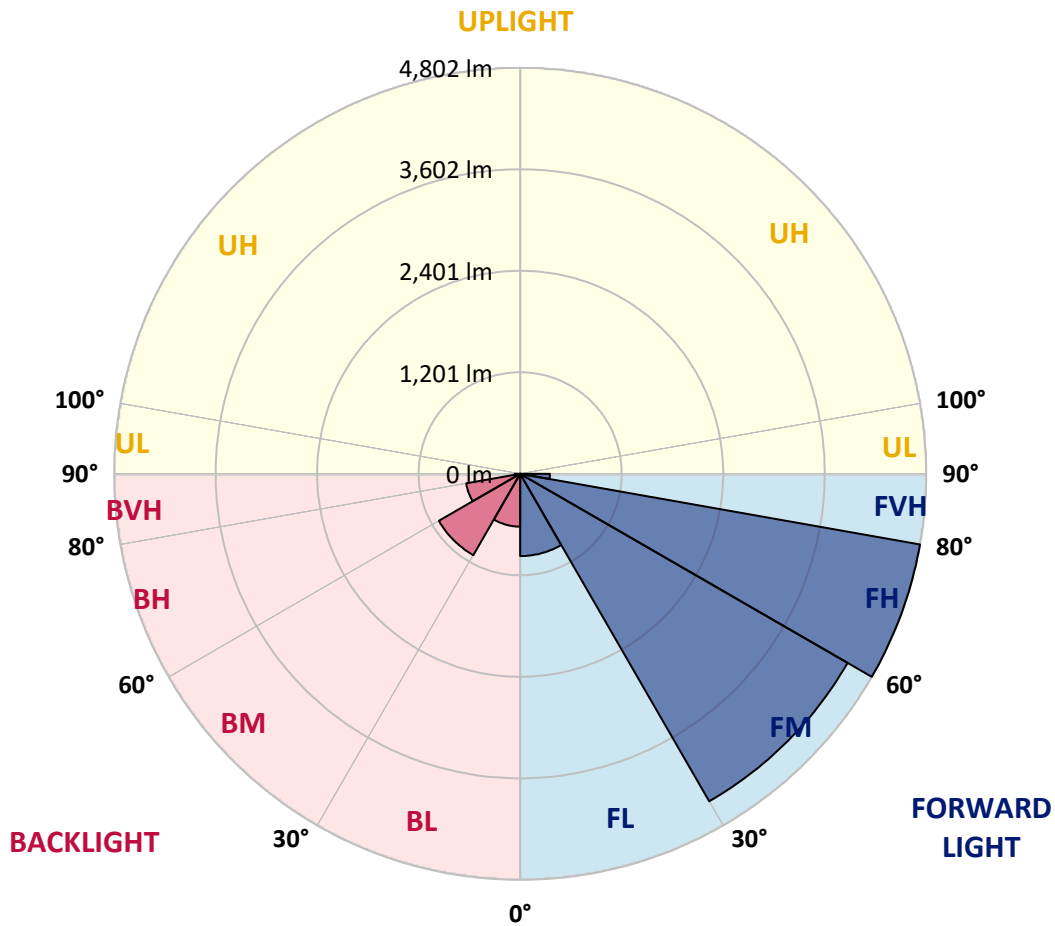
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.7	7.5			
FM (30°-60°)	4472.8	34.3			
FH (60°-80°)	4802.2	36.8			G2/5000
FVH (80°-90°)	351.6	2.7			G3/500
BL (0°-30°)	624.4	4.8	B2/1000		
BM (30°-60°)	1110.7	8.5	B2/2500		
BH (60°-80°)	648.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	63.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6
2.5°	2415.0	2406.5	2415.0	2411.4	2410.1	2407.2	2407.9	2412.8	2410.1	2413.6	2401.6
5°	2398.8	2393.9	2402.3	2400.2	2409.4	2410.7	2419.8	2425.5	2428.9	2429.7	2420.5
7.5°	2372.2	2367.2	2379.1	2389.0	2408.6	2414.3	2433.2	2442.4	2447.2	2455.7	2442.4
10°	2274.6	2272.5	2301.9	2339.2	2385.5	2414.3	2443.0	2458.5	2466.1	2488.6	2473.2
12.5°	2102.0	2104.7	2143.4	2214.9	2307.6	2400.2	2454.3	2476.7	2488.6	2516.7	2509.7
15°	1937.0	1936.3	1978.5	2054.9	2184.8	2338.4	2459.9	2498.4	2518.8	2560.2	2554.6
17.5°	1841.6	1838.7	1868.3	1926.5	2047.2	2243.7	2445.9	2510.4	2553.9	2605.9	2600.9
20°	1824.0	1818.5	1833.8	1862.6	1948.2	2139.8	2409.4	2510.4	2582.0	2649.3	2646.5
22.5°	1887.8	1878.7	1872.5	1869.0	1906.8	2054.2	2368.0	2502.0	2623.4	2711.8	2706.9
25°	2016.3	2002.2	1970.0	1938.4	1927.2	2015.7	2331.5	2499.9	2685.2	2796.0	2777.7
27.5°	2224.0	2206.5	2141.2	2065.5	1997.4	2035.2	2315.3	2512.5	2753.3	2885.2	2848.7
30°	2481.6	2462.7	2380.6	2264.0	2141.9	2108.2	2335.7	2549.7	2840.3	3003.8	2932.2
32.5°	2712.6	2691.4	2621.3	2502.6	2337.7	2234.6	2400.2	2620.6	2977.1	3168.7	3057.8
35°	2917.5	2892.9	2829.7	2720.2	2577.8	2412.1	2516.7	2746.2	3171.6	3436.8	3228.3
37.5°	3118.2	3089.4	3020.6	2904.8	2805.1	2648.7	2677.4	2907.6	3429.8	3762.5	3454.4
40°	3342.7	3301.3	3217.8	3103.4	3006.6	2925.9	2888.7	3105.5	3692.3	4126.0	3736.4
42.5°	3560.3	3521.0	3421.3	3323.8	3202.4	3179.2	3133.6	3337.1	3979.3	4525.3	4022.8
45°	3794.8	3747.7	3627.0	3503.4	3427.0	3347.6	3370.8	3568.7	4260.7	4932.4	4323.2
47.5°	4014.4	3961.7	3819.3	3681.7	3639.7	3489.4	3588.4	3823.5	4553.4	5345.1	4620.8
50°	4133.0	4081.0	3962.4	3838.2	3805.2	3664.2	3824.2	4103.5	4860.0	5756.3	4906.4
52.5°	4231.9	4175.8	4020.7	3951.9	3942.2	3854.4	4114.8	4423.6	5166.8	6119.9	5182.2
55°	4337.2	4274.8	4076.8	4015.1	4060.0	4067.7	4459.4	4786.4	5491.0	6474.3	5442.5
57.5°	4458.6	4379.3	4130.9	4068.4	4175.1	4317.6	4855.2	5162.6	5809.6	6802.7	5674.2
60°	4573.0	4493.0	4234.8	4153.4	4299.4	4607.5	5309.3	5618.0	6170.4	7095.4	5893.1
62.5°	4595.5	4529.6	4317.6	4316.9	4467.8	4945.7	5846.8	6077.7	6485.5	7384.5	6089.6
65°	4206.7	4165.3	4039.6	4310.5	4709.2	5432.8	6445.5	6665.9	6886.3	7637.2	6262.3
67.5°	3201.7	3207.3	3198.2	3721.1	4514.1	6132.5	7312.2	7295.4	7381.0	7920.7	6460.9
70°	1464.0	1497.0	1711.7	2568.6	3616.5	6213.1	8745.3	8527.1	8002.1	8287.7	6632.9
72.5°	791.0	816.2	903.9	1244.4	2174.2	5524.0	9816.3	9971.4	8828.1	8534.8	6444.1
75°	580.4	594.4	655.5	791.0	913.1	4105.6	9432.5	10228.3	8931.3	7958.6	5564.7
77.5°	434.4	440.7	490.6	626.7	467.4	2164.4	7536.8	8470.9	7645.6	6538.8	4110.6
80°	315.1	322.2	359.4	470.2	327.8	791.6	5175.2	5945.8	5236.2	4168.1	2048.6
82.5°	217.6	220.4	236.5	320.0	228.8	307.4	2936.4	3486.6	2923.1	1462.6	553.0
85°	131.2	134.8	141.8	186.7	129.9	146.0	1267.5	1311.0	873.8	349.5	172.0
87.5°	54.0	57.5	63.1	78.6	51.2	40.7	209.1	262.5	163.5	102.5	53.3
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°	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6	2394.6
2.5°	2398.1	2393.2	2379.8	2361.6	2344.8	2323.7	2314.6	2306.9	2299.9	2286.6	2280.2
5°	2412.8	2399.5	2363.8	2317.4	2264.7	2207.2	2151.1	2112.4	2079.5	2054.9	2034.5
7.5°	2435.3	2410.1	2344.8	2250.0	2129.3	2005.8	1894.2	1814.9	1755.2	1733.5	1695.6
10°	2458.5	2428.3	2314.6	2147.6	1939.1	1749.0	1600.8	1519.5	1471.7	1456.3	1432.4
12.5°	2485.8	2441.7	2267.6	2005.1	1726.5	1518.0	1388.9	1341.2	1316.6	1308.2	1310.3
15°	2525.8	2452.8	2196.7	1826.9	1523.7	1349.6	1266.1	1233.1	1220.5	1219.8	1222.5
17.5°	2556.0	2455.0	2086.5	1635.9	1367.9	1247.8	1179.1	1166.4	1174.9	1187.5	1192.4
20°	2589.7	2436.0	1942.0	1461.9	1258.4	1158.7	1130.0	1138.4	1158.7	1176.9	1183.3
22.5°	2613.5	2401.6	1767.2	1326.5	1163.6	1107.5	1106.1	1123.6	1134.9	1144.0	1148.9
25°	2634.7	2343.4	1581.9	1212.8	1085.7	1076.6	1092.0	1086.4	1078.7	1086.4	1091.3
27.5°	2650.0	2251.4	1416.2	1113.0	1030.9	1055.5	1046.4	1033.8	1033.1	1037.3	1044.3
30°	2645.1	2128.6	1280.1	1018.3	992.4	1016.2	994.5	992.4	990.3	992.4	1000.1
32.5°	2645.1	1988.9	1175.6	953.0	967.8	958.7	956.5	951.7	943.2	942.6	951.7
35°	2659.9	1849.3	1085.7	918.0	947.4	925.7	927.1	915.1	897.6	889.2	897.6
37.5°	2690.1	1737.0	996.6	901.2	911.6	910.9	905.4	885.0	854.1	827.5	836.6
40°	2763.1	1704.1	935.5	893.4	894.8	903.2	888.5	849.2	779.0	735.5	741.1
42.5°	2877.5	1759.4	922.2	874.4	883.6	892.1	863.3	772.0	722.2	696.2	696.2
45°	3022.7	1856.3	951.0	847.1	856.9	871.7	786.1	742.5	720.1	720.8	724.3
47.5°	3206.6	1958.1	1004.3	823.3	818.4	826.8	734.8	708.2	677.2	685.0	704.6
50°	3419.3	2061.3	1054.8	791.0	775.5	748.1	701.8	676.6	637.2	619.0	623.9
52.5°	3649.4	2160.9	1075.2	751.6	729.2	697.6	679.4	648.5	600.8	570.6	569.9
55°	3867.7	2251.4	1052.7	704.6	682.9	658.3	655.5	636.5	585.3	543.2	543.2
57.5°	4074.1	2327.3	996.6	656.9	635.8	621.2	640.0	630.9	566.4	512.3	509.5
60°	4248.8	2379.1	915.1	608.4	593.8	586.0	614.8	612.0	539.7	479.4	477.2
62.5°	4387.7	2399.5	825.3	562.1	558.6	544.6	579.7	579.7	506.0	447.1	445.0
65°	4496.6	2379.8	734.1	516.5	523.6	502.5	536.9	532.7	470.2	418.3	415.4
67.5°	4592.7	2315.3	633.0	471.6	487.8	461.0	492.0	482.2	430.9	389.5	386.7
70°	4635.5	2165.1	517.9	426.7	446.4	420.4	447.1	428.9	386.7	358.6	353.0
72.5°	4291.6	1799.5	407.7	379.7	396.6	375.5	398.6	377.6	339.0	326.4	315.8
75°	3550.5	1350.3	313.8	328.4	341.1	324.9	340.4	324.9	289.9	299.0	273.0
77.5°	2578.5	911.6	240.1	274.4	280.0	271.6	285.0	267.4	235.9	233.7	223.1
80°	1282.2	534.1	188.1	216.9	214.7	209.1	224.6	216.2	189.5	200.7	198.6
82.5°	371.3	228.8	136.8	152.3	148.1	149.4	160.7	164.9	247.0	245.0	250.5
85°	116.5	89.8	82.1	84.9	80.7	82.8	94.7	188.1	174.0	101.8	110.2
87.5°	30.1	30.9	20.4	21.7	22.4	26.6	30.1	114.4	54.7	35.8	37.9
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)