

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: P963117

Luminaire Tested: **NVN-SB2D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15101.3 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

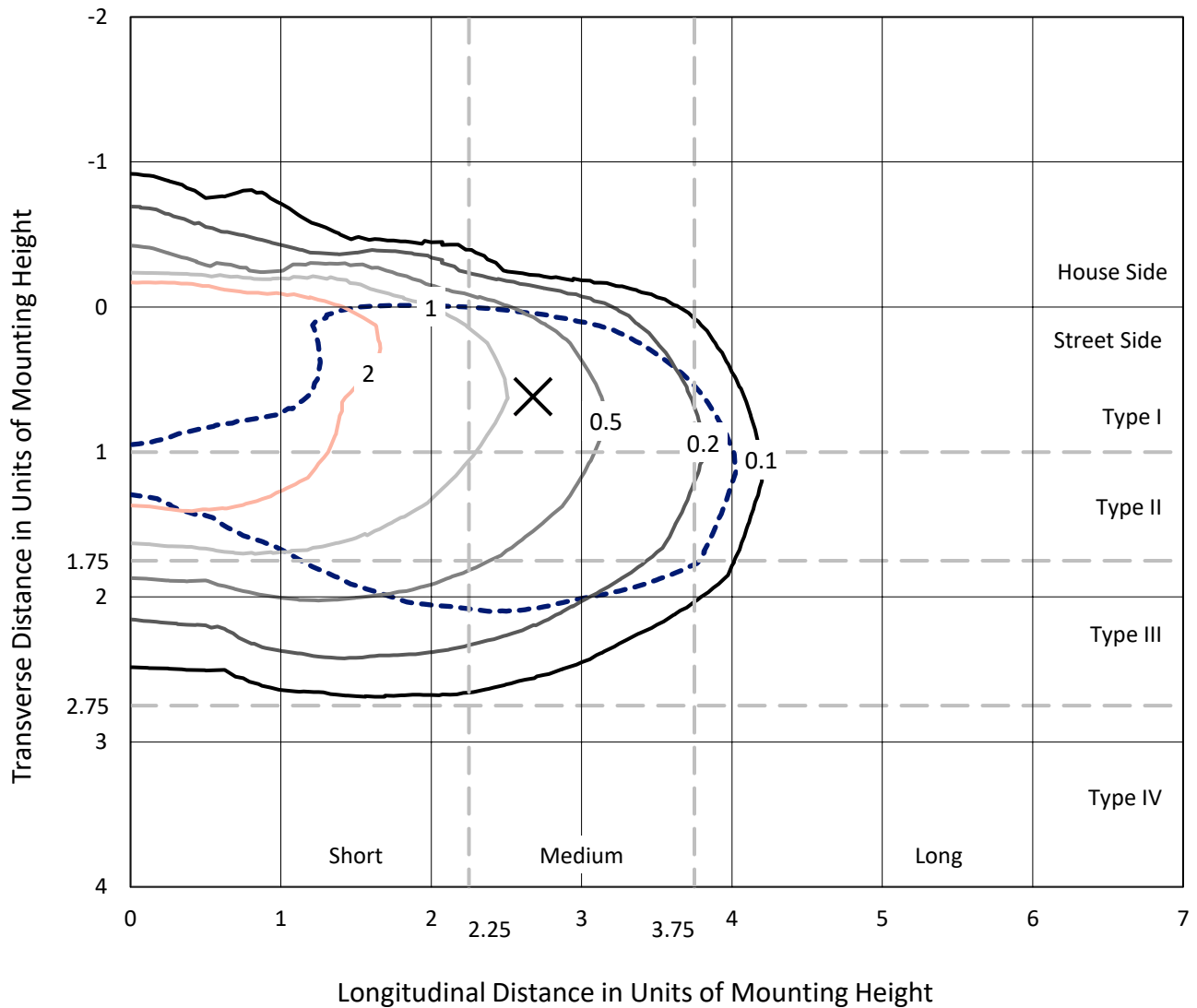
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

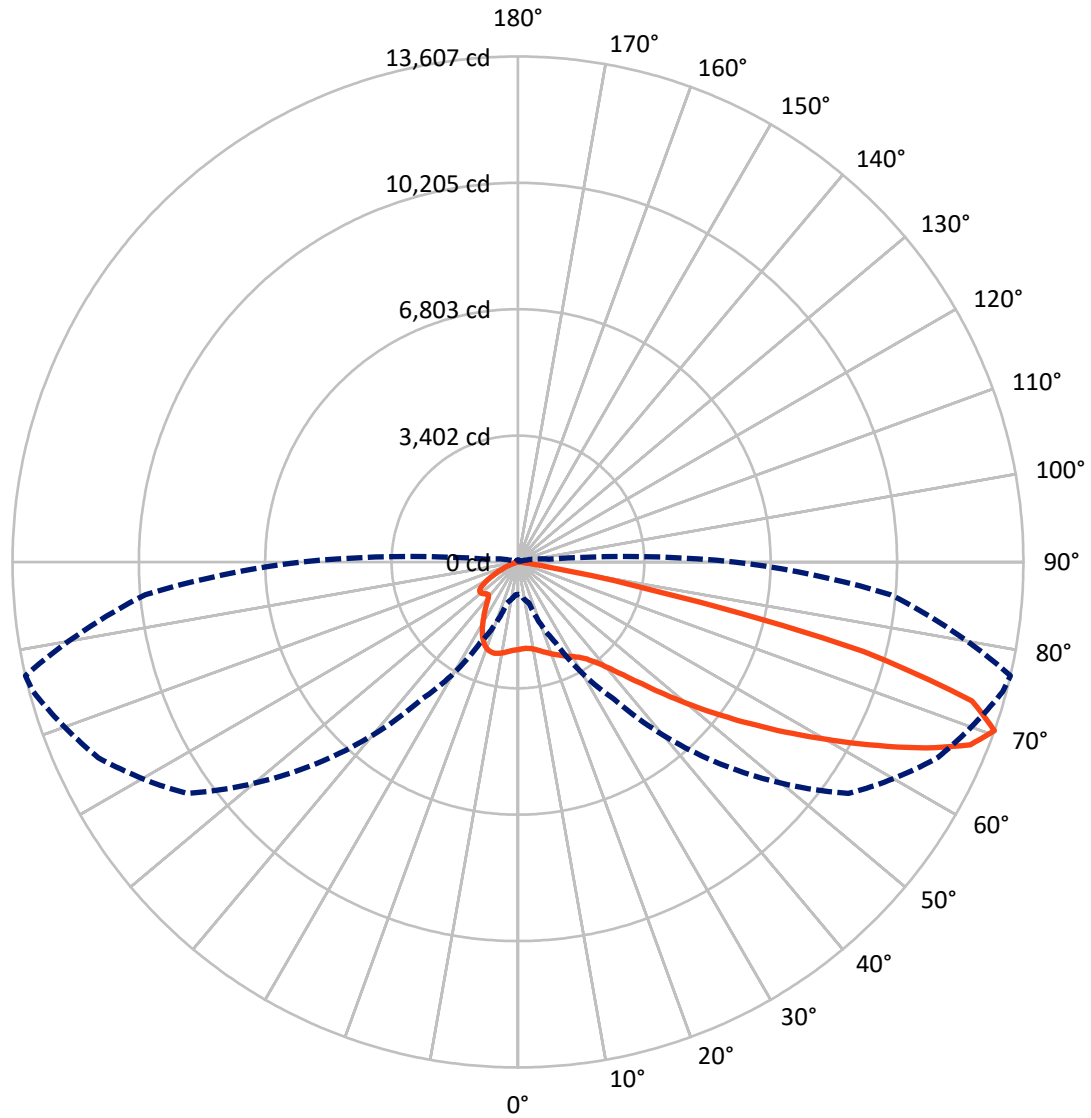
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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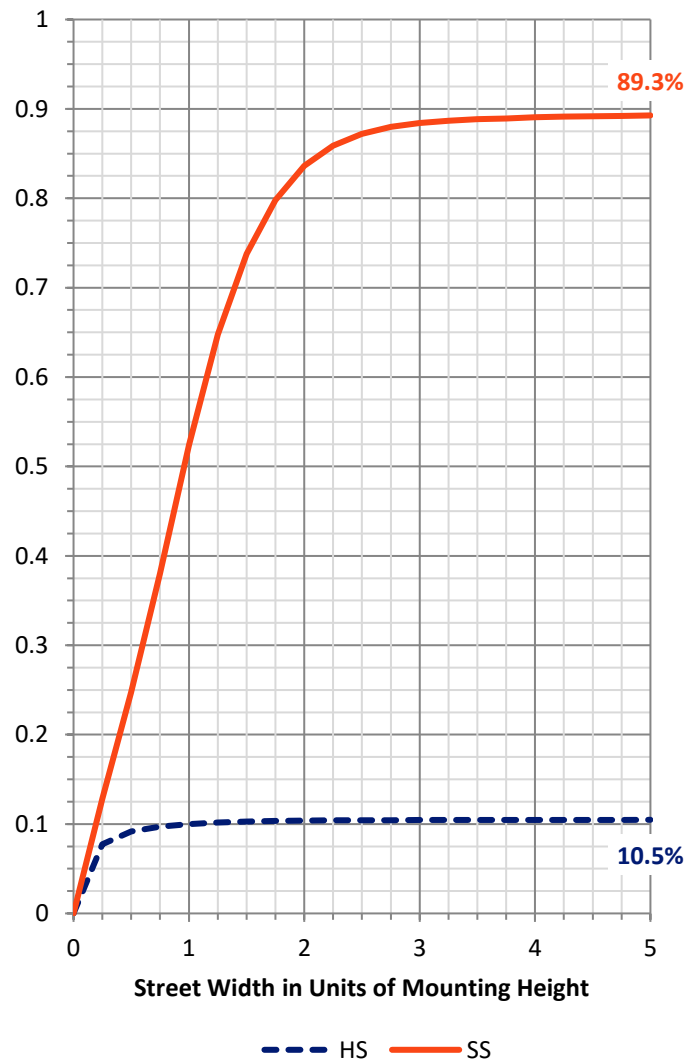
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1591.9	0.0	1591.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13509.4	0.0	13509.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	15101.3	0.0	15101.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	1.3
10°-20°	481.9	3.2
20°-30°	745.4	4.9
30°-40°	1352.6	9.0
40°-50°	2553.1	16.9
50°-60°	3689.1	24.4
60°-70°	3926.9	26.0
70°-80°	2081.0	13.8
80°-90°	68.3	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°	15101.3	100.0
0°-180°	15101.3	100.0

Coefficient of Utilization



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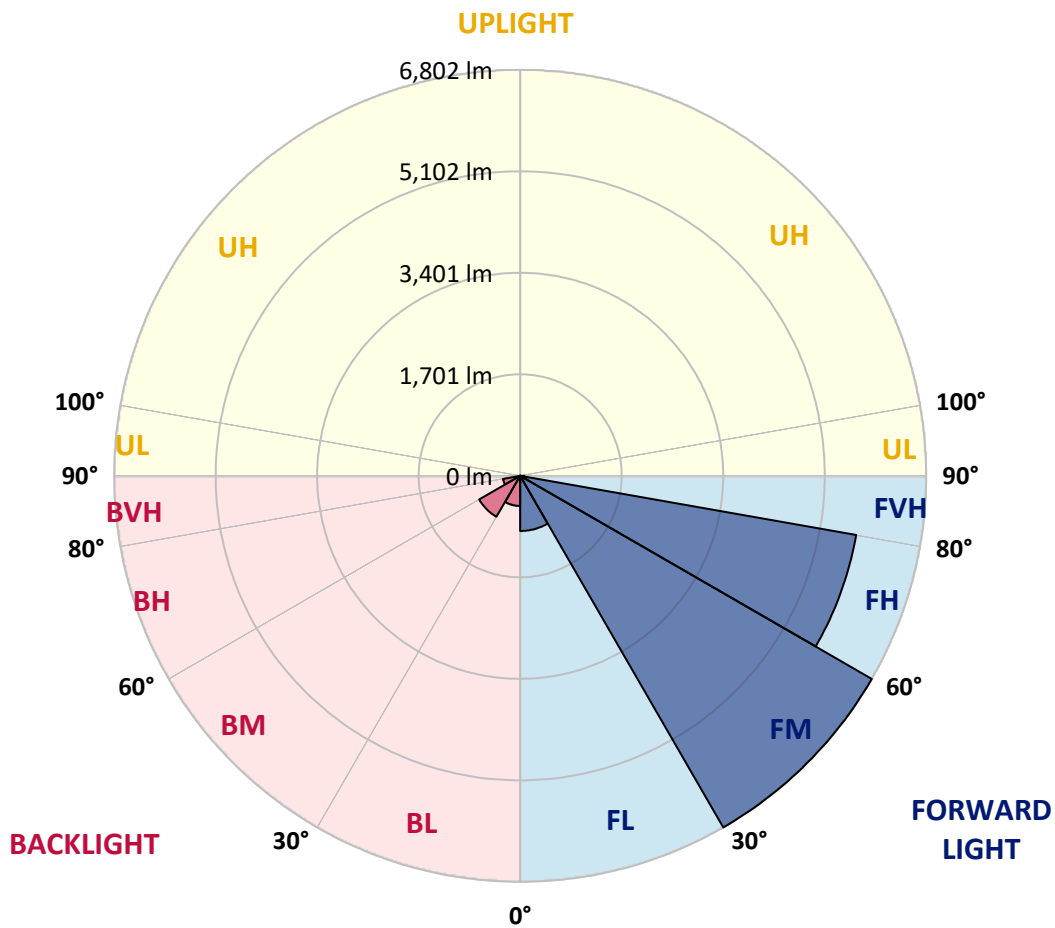
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.6	6.1			
FM (30°-60°)	6802.3	45.0			
FH (60°-80°)	5716.1	37.9			G3/7500
FVH (80°-90°)	66.5	0.4			G1/100
BL (0°-30°)	505.8	3.3	B2/1000		
BM (30°-60°)	792.5	5.2	B1/1000		
BH (60°-80°)	291.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6
2.5°	2211.5	2231.5	2228.7	2242.1	2246.8	2265.9	2284.9	2310.8	2339.4	2338.3	2357.4
5°	2086.6	2106.6	2111.4	2129.5	2152.4	2181.9	2221.1	2272.5	2325.9	2334.5	2372.7
7.5°	1938.8	1959.8	1972.2	2008.4	2050.4	2111.4	2175.3	2250.6	2339.4	2351.8	2425.1
10°	1791.0	1810.0	1826.2	1877.8	1944.5	2035.1	2139.1	2247.7	2366.9	2385.1	2489.0
12.5°	1699.4	1717.5	1735.6	1780.5	1863.4	1974.0	2115.2	2261.1	2412.7	2438.5	2575.8
15°	1667.0	1683.3	1697.5	1737.6	1814.8	1940.7	2110.5	2288.8	2471.0	2505.3	2680.7
17.5°	1671.8	1680.4	1689.9	1720.4	1795.7	1925.5	2119.0	2336.5	2539.5	2570.1	2785.6
20°	1699.4	1704.2	1705.2	1726.1	1792.8	1923.5	2136.2	2382.2	2604.4	2645.4	2889.6
22.5°	1734.7	1736.7	1734.7	1749.0	1811.0	1937.9	2159.1	2437.6	2676.9	2715.0	2994.4
25°	1899.7	1863.4	1817.6	1790.1	1841.5	1965.4	2193.4	2512.0	2756.0	2793.2	3096.5
27.5°	2411.8	2307.9	2143.8	1959.8	1904.4	2005.5	2241.1	2587.3	2836.2	2869.6	3206.2
30°	3243.4	3107.0	2828.6	2413.7	2106.6	2089.5	2303.1	2662.6	2921.0	2957.3	3323.5
32.5°	4076.8	4043.5	3722.1	3148.0	2561.5	2276.4	2406.1	2764.6	3033.6	3062.2	3481.8
35°	4919.9	4852.2	4589.0	4021.6	3262.5	2656.9	2577.8	2898.2	3181.4	3213.8	3712.6
37.5°	5565.5	5524.5	5361.5	4894.2	4094.1	3244.3	2871.4	3105.1	3395.9	3432.2	4008.3
40°	6135.9	6116.8	6061.4	5753.4	5023.8	4013.0	3328.3	3425.6	3693.5	3736.4	4370.6
42.5°	6584.1	6628.9	6660.3	6574.6	5982.3	4890.4	3942.5	3875.6	4108.4	4152.3	4832.2
45°	7042.8	7058.0	7184.8	7308.9	6934.0	5807.8	4634.7	4403.0	4624.3	4678.6	5385.3
47.5°	7337.5	7398.4	7621.6	7840.0	7734.1	6717.5	5378.6	5025.8	5222.3	5324.3	6005.2
50°	7359.4	7474.8	7781.8	8162.4	8316.8	7583.5	6187.3	5735.3	5944.2	6056.7	6667.0
52.5°	6994.1	7173.5	7649.3	8206.3	8631.5	8316.8	7023.7	6444.8	6712.8	6859.6	7353.7
55°	5362.4	5597.0	7150.5	7967.8	8643.9	8872.8	7838.1	7183.9	7569.2	7735.2	8095.6
57.5°	4672.0	4790.2	5621.8	7553.9	8414.1	9097.0	8574.3	7887.7	8500.9	8706.9	8796.6
60°	3887.1	4042.6	4714.9	6876.8	8102.3	9118.9	9224.7	8795.6	9510.9	9742.5	9439.3
62.5°	2641.6	2810.4	3479.0	5713.3	7676.0	9108.4	9757.8	9730.1	10633.2	10882.2	9983.8
65°	1636.5	1742.3	2182.9	4665.3	7080.0	9119.8	10315.7	10865.0	11817.7	12070.4	10405.4
67.5°	1293.1	1341.8	1571.6	3582.0	6052.8	8862.4	10872.7	11932.1	12932.5	13132.8	10534.1
70°	868.8	898.3	1143.4	2401.3	4503.1	7674.1	10862.1	12468.1	13506.6	13606.8	10064.9
72.5°	457.8	480.6	668.5	1111.9	2719.8	5454.9	9156.0	11827.3	12935.4	12784.7	8602.9
75°	228.9	267.0	450.1	564.6	1161.5	3042.2	5685.7	9324.8	10181.2	9597.6	5519.7
77.5°	173.5	209.8	372.0	372.0	404.4	1024.2	2408.0	5085.8	4691.0	3906.2	1620.2
80°	110.6	143.1	325.2	281.4	168.8	260.3	627.5	1424.7	996.6	758.2	294.7
82.5°	64.9	93.5	270.8	185.9	94.4	96.4	177.4	303.3	258.4	201.2	90.6
85°	25.7	61.0	185.9	73.4	37.2	23.9	53.4	64.9	53.4	40.1	22.9
87.5°	0.0	14.3	32.4	0.0	2.9	1.9	3.8	4.8	4.8	3.8	7.6
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°	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6	2355.6
2.5°	2366.0	2368.0	2373.7	2374.6	2361.3	2344.1	2337.4	2334.5	2323.1	2322.1	2324.1
5°	2394.6	2403.2	2394.6	2369.8	2310.8	2227.7	2164.8	2113.3	2066.6	2052.3	2043.6
7.5°	2451.9	2460.4	2434.7	2337.4	2188.7	2023.7	1874.9	1770.0	1675.6	1640.3	1626.0
10°	2533.9	2545.3	2464.2	2267.8	2004.6	1739.4	1487.7	1310.4	1172.1	1115.8	1091.9
12.5°	2636.8	2641.6	2480.5	2161.9	1765.3	1386.6	1029.9	840.2	717.2	671.4	657.0
15°	2750.4	2743.7	2482.3	2017.9	1439.1	980.3	672.3	552.2	502.6	487.3	487.3
17.5°	2869.6	2841.9	2444.2	1810.0	1081.5	670.5	498.8	470.2	461.6	457.8	456.8
20°	2986.8	2924.8	2374.6	1538.2	776.2	500.7	452.9	444.4	439.6	437.8	435.8
22.5°	3093.7	2987.8	2255.4	1222.6	563.6	442.5	428.1	420.6	411.9	408.2	407.2
25°	3197.6	3024.1	2087.5	927.9	451.1	413.9	402.4	388.2	376.7	372.0	370.0
27.5°	3298.7	3046.9	1877.8	686.6	402.4	387.1	366.2	346.1	337.6	335.7	333.7
30°	3406.5	3054.6	1639.4	512.1	372.9	353.8	323.3	300.4	295.6	296.6	296.6
32.5°	3538.1	3066.0	1399.0	419.6	348.1	313.8	277.5	253.7	249.9	253.7	252.8
35°	3695.4	3088.9	1167.3	386.2	326.2	272.8	233.6	213.6	209.8	212.7	211.7
37.5°	3909.0	3126.0	950.8	379.6	308.0	238.4	196.5	180.2	180.2	181.2	180.2
40°	4193.3	3225.3	757.2	374.7	298.5	212.7	165.9	159.3	162.2	164.0	164.0
42.5°	4539.4	3436.0	626.6	369.1	288.0	201.2	150.7	147.8	152.6	154.5	154.5
45°	4927.6	3703.0	580.8	359.6	278.5	208.9	144.0	140.2	146.0	146.9	147.8
47.5°	5329.1	3964.4	575.0	349.0	269.0	220.3	142.1	133.6	140.2	141.1	142.1
50°	5735.3	4135.1	580.8	332.8	253.7	220.3	143.1	126.8	132.5	135.4	136.3
52.5°	6144.5	4213.3	577.0	297.6	226.9	206.9	143.1	121.2	126.8	128.7	128.7
55°	6541.1	4198.0	518.8	245.1	192.6	183.1	139.2	116.3	120.1	121.2	121.2
57.5°	6854.9	3985.3	411.0	190.8	156.4	152.6	126.8	110.6	113.5	112.5	112.5
60°	7018.9	3518.0	293.8	146.9	123.0	120.1	111.6	103.0	104.9	100.1	99.2
62.5°	7020.8	2900.0	196.5	116.3	98.2	95.3	95.3	92.5	90.6	81.1	78.2
65°	6871.1	2214.4	130.7	92.5	79.1	74.4	80.2	79.1	72.5	59.1	57.2
67.5°	6531.6	1451.5	99.2	72.5	61.0	58.2	63.9	66.7	62.0	49.6	48.7
70°	5833.5	844.9	82.0	56.3	45.8	42.9	51.5	57.2	51.5	40.1	38.1
72.5°	4845.5	455.8	66.7	41.9	31.5	28.6	41.0	46.7	41.0	29.5	28.6
75°	3144.2	244.2	51.5	27.7	16.2	18.1	30.5	34.3	28.6	19.1	17.1
77.5°	1055.8	107.7	32.4	13.3	7.6	7.6	18.1	21.0	13.3	6.7	5.7
80°	235.5	44.8	13.3	5.7	2.9	2.9	3.8	3.8	1.9	0.0	0.0
82.5°	77.3	18.1	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.5	6.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	0.9	0.0	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)