

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: P966279

Luminaire Tested: **NVN-SB4B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966279
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-SB4B-827-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA 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: 16746.4 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

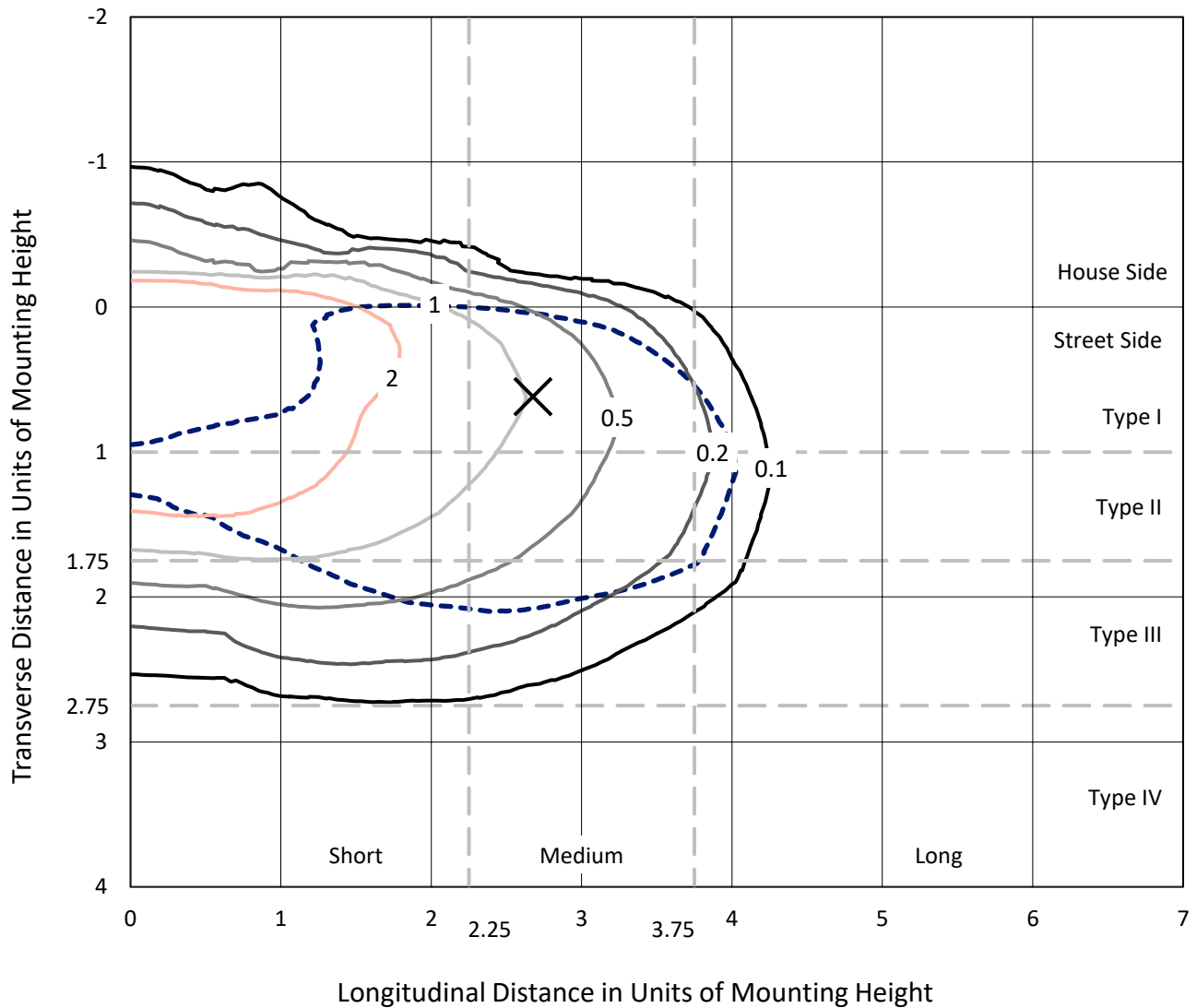
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

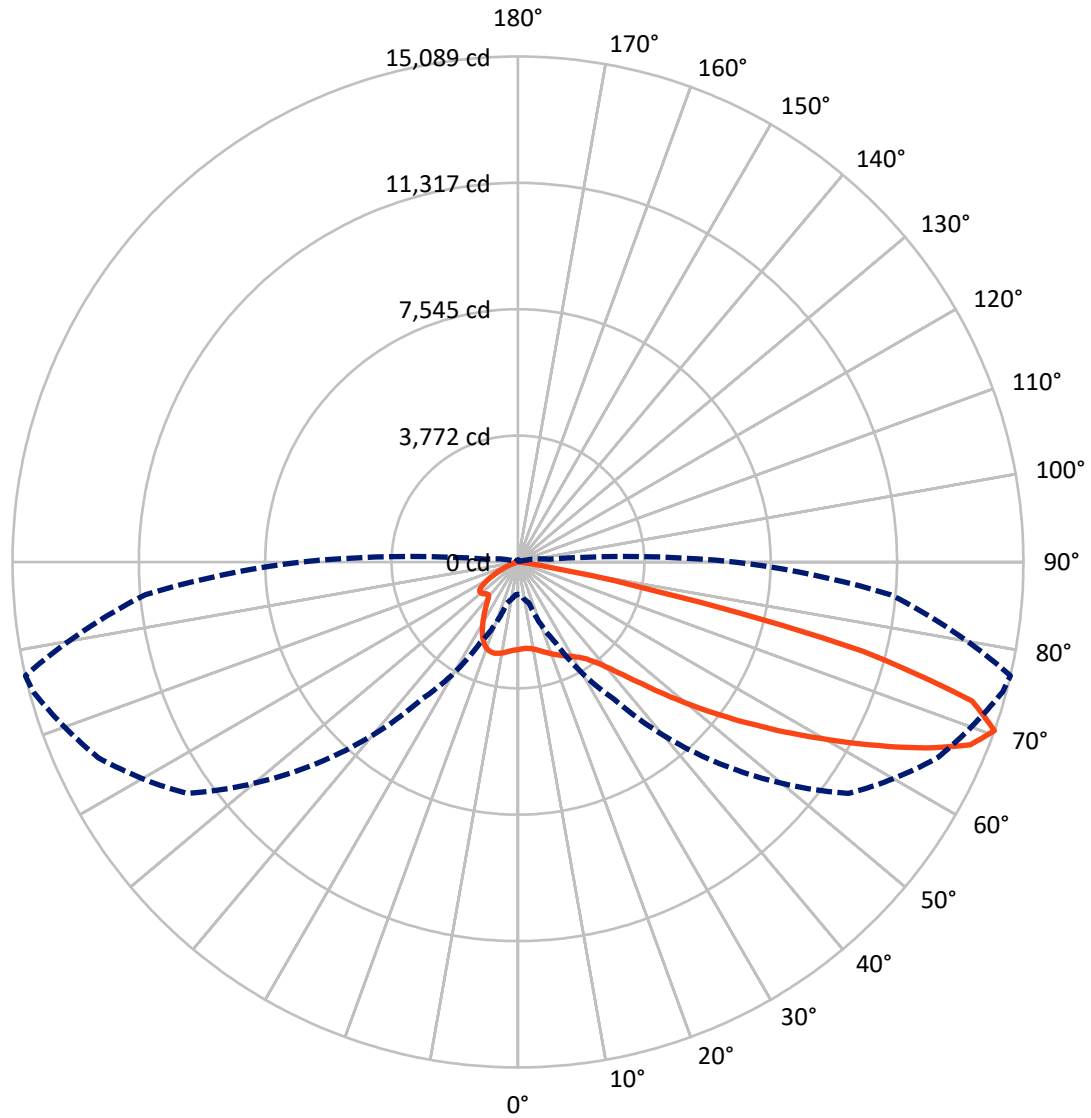
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type 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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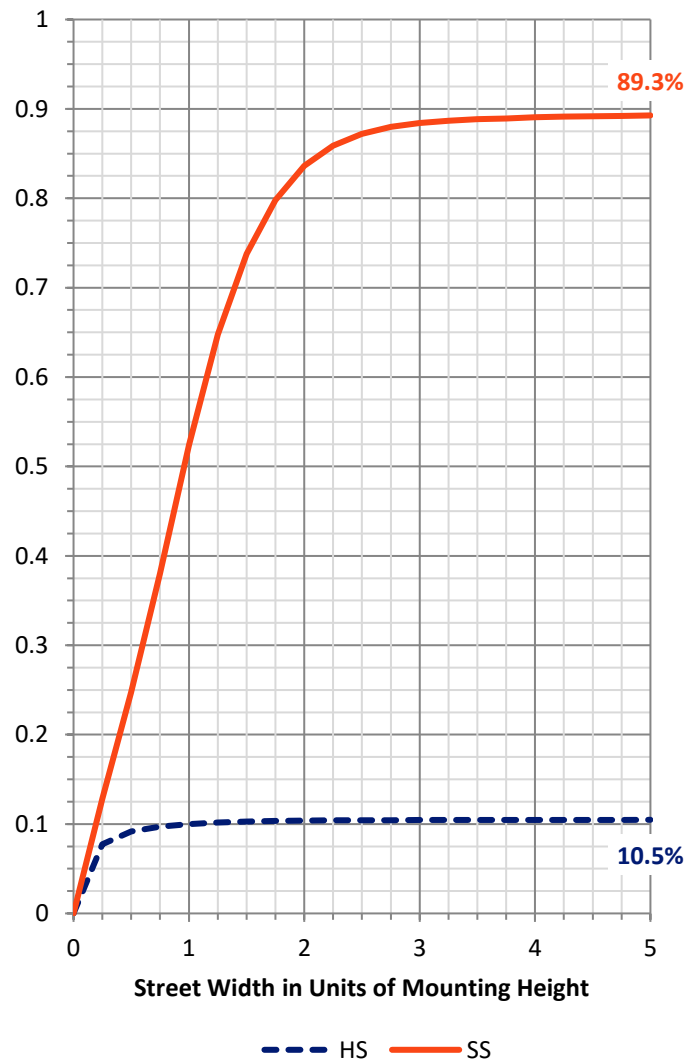
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.3	0.0	1765.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14981.1	0.0	14981.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	16746.4	0.0	16746.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	1.3
10°-20°	534.4	3.2
20°-30°	826.6	4.9
30°-40°	1499.9	9.0
40°-50°	2831.3	16.9
50°-60°	4090.9	24.4
60°-70°	4354.7	26.0
70°-80°	2307.7	13.8
80°-90°	75.8	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°	16746.4	100.0
0°-180°	16746.4	100.0

Coefficient of Utilization



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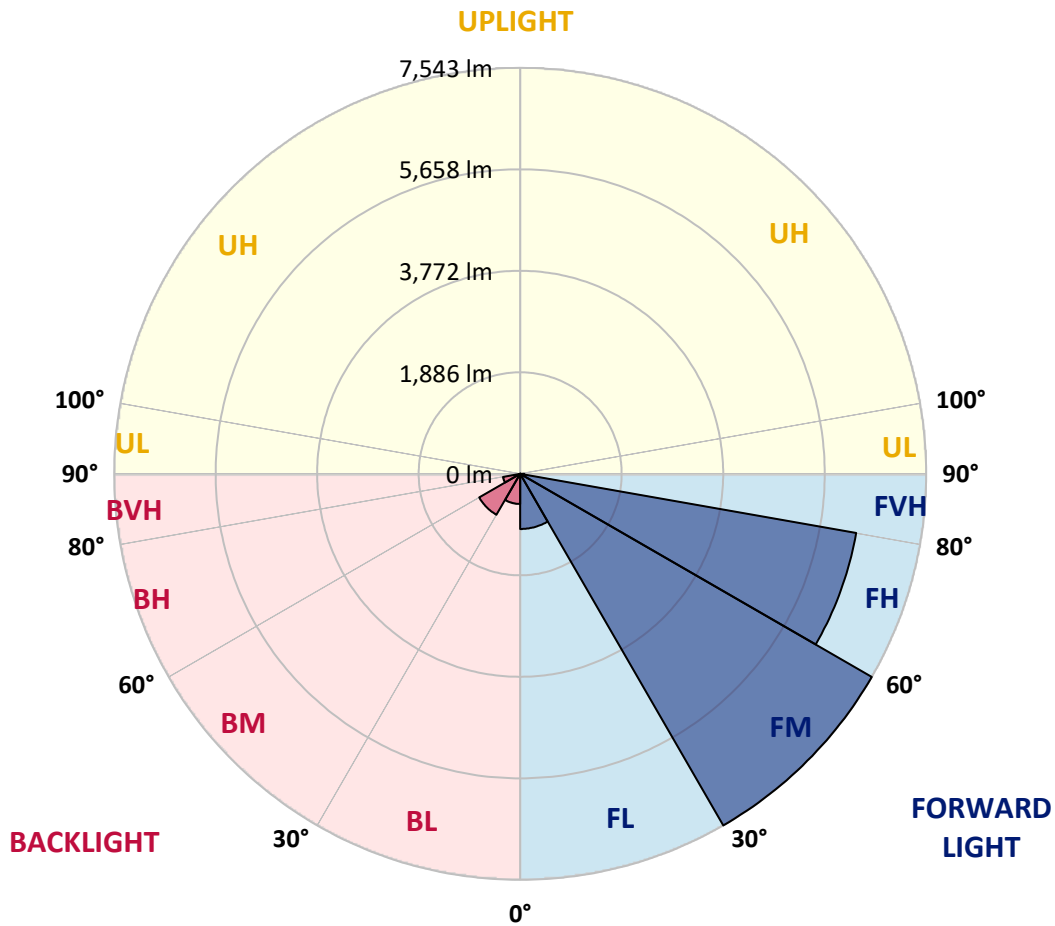
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.3	6.1			
FM (30°-60°)	7543.4	45.0			
FH (60°-80°)	6338.8	37.9			G3/7500
FVH (80°-90°)	73.7	0.4			G1/100
BL (0°-30°)	560.9	3.3	B2/1000		
BM (30°-60°)	878.8	5.2	B1/1000		
BH (60°-80°)	323.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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°	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1
2.5°	2452.4	2474.7	2471.5	2486.3	2491.6	2512.7	2533.9	2562.4	2594.2	2593.1	2614.3
5°	2313.9	2336.1	2341.4	2361.5	2386.9	2419.7	2463.1	2520.2	2579.3	2588.8	2631.2
7.5°	2150.0	2173.3	2187.0	2227.2	2273.8	2341.4	2412.2	2495.8	2594.2	2607.9	2689.4
10°	1986.0	2007.3	2025.2	2082.3	2156.3	2256.8	2372.1	2492.6	2624.8	2644.9	2760.2
12.5°	1884.6	1904.7	1924.7	1974.5	2066.4	2189.1	2345.6	2507.5	2675.6	2704.2	2856.5
15°	1848.6	1866.5	1882.4	1926.9	2012.5	2152.1	2340.4	2538.1	2740.1	2778.2	2972.8
17.5°	1853.9	1863.4	1874.0	1907.8	1991.4	2135.2	2349.9	2591.0	2816.3	2850.1	3089.1
20°	1884.6	1889.8	1890.9	1914.2	1988.2	2133.0	2368.9	2641.7	2888.1	2933.7	3204.4
22.5°	1923.7	1925.8	1923.7	1939.5	2008.3	2148.9	2394.3	2703.1	2968.5	3010.8	3320.7
25°	2106.7	2066.4	2015.7	1985.0	2042.1	2179.6	2432.3	2785.5	3056.3	3097.5	3433.9
27.5°	2674.5	2559.2	2377.4	2173.3	2111.9	2224.0	2485.2	2869.1	3145.1	3182.1	3555.5
30°	3596.7	3445.5	3136.7	2676.7	2336.1	2317.1	2554.0	2952.7	3239.3	3279.5	3685.6
32.5°	4521.0	4484.0	4127.6	3490.9	2840.6	2524.4	2668.2	3065.9	3364.0	3395.8	3861.1
35°	5455.9	5380.8	5088.9	4459.7	3617.8	2946.4	2858.5	3213.9	3527.9	3563.9	4117.0
37.5°	6171.8	6126.4	5945.5	5427.4	4540.0	3597.7	3184.3	3443.4	3766.0	3806.1	4444.9
40°	6804.3	6783.1	6721.7	6380.2	5571.2	4450.1	3690.8	3798.8	4095.9	4143.5	4846.7
42.5°	7301.3	7351.0	7385.9	7290.7	6634.0	5423.1	4371.9	4297.8	4555.9	4604.6	5358.6
45°	7810.0	7826.9	7967.5	8105.1	7689.4	6440.5	5139.7	4882.7	5128.1	5188.3	5972.0
47.5°	8136.8	8204.4	8451.9	8694.2	8576.7	7449.4	5964.6	5573.2	5791.1	5904.3	6659.4
50°	8161.0	8289.1	8629.6	9051.6	9222.8	8409.6	6861.4	6360.1	6591.7	6716.5	7393.3
52.5°	7756.1	7954.9	8482.6	9100.2	9571.9	9222.8	7788.9	7146.9	7444.1	7606.9	8154.8
55°	5946.6	6206.8	7929.5	8835.8	9585.6	9839.4	8692.0	7966.5	8393.7	8577.8	8977.6
57.5°	5181.0	5312.1	6234.3	8376.8	9330.8	10087.9	9508.4	8746.9	9427.0	9655.4	9754.8
60°	4310.5	4482.9	5228.5	7626.0	8984.9	10112.2	10229.7	9753.8	10546.9	10803.9	10467.6
62.5°	2929.4	3116.6	3857.9	6335.7	8512.2	10100.7	10820.8	10790.2	11791.7	12067.6	11071.4
65°	1814.8	1932.1	2420.7	5173.5	7851.2	10113.4	11439.5	12048.7	13105.1	13385.4	11538.9
67.5°	1434.1	1488.0	1742.8	3972.2	6712.2	9827.8	12057.1	13232.0	14341.4	14563.5	11681.7
70°	963.4	996.2	1268.0	2663.0	4993.7	8510.1	12045.5	13826.4	14978.0	15089.1	11161.3
72.5°	507.6	533.0	741.4	1233.1	3016.2	6049.1	10153.5	13115.7	14344.6	14177.5	9540.2
75°	253.8	296.1	499.2	626.1	1288.1	3373.6	6305.1	10340.7	11290.4	10643.2	6121.1
77.5°	192.5	232.7	412.5	412.5	448.4	1135.8	2670.3	5639.9	5202.1	4331.8	1796.8
80°	122.7	158.7	360.6	312.0	187.2	288.7	695.9	1579.9	1105.2	840.7	326.8
82.5°	72.0	103.6	300.3	206.2	104.7	106.8	196.7	336.3	286.6	223.1	100.4
85°	28.6	67.6	206.2	81.4	41.2	26.4	59.2	72.0	59.2	44.4	25.4
87.5°	0.0	15.9	36.0	0.0	3.2	2.2	4.2	5.3	5.3	4.2	8.5
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°	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1	2612.1
2.5°	2623.8	2625.8	2632.2	2633.3	2618.5	2599.5	2592.0	2588.8	2576.2	2575.1	2577.3
5°	2655.5	2665.0	2655.5	2628.0	2562.4	2470.5	2400.7	2343.6	2291.7	2275.8	2266.3
7.5°	2718.9	2728.4	2700.0	2592.0	2427.1	2244.1	2079.1	1962.8	1858.1	1819.0	1803.1
10°	2809.9	2822.6	2732.8	2514.8	2222.9	1928.9	1649.7	1453.0	1299.7	1237.4	1210.9
12.5°	2924.1	2929.4	2750.7	2397.5	1957.5	1537.7	1142.2	931.7	795.3	744.6	728.7
15°	3050.0	3042.6	2752.8	2237.8	1595.8	1087.1	745.6	612.3	557.3	540.4	540.4
17.5°	3182.1	3151.5	2710.5	2007.3	1199.2	743.4	553.1	521.4	511.9	507.6	506.6
20°	3312.3	3243.5	2633.3	1705.8	860.8	555.2	502.4	492.8	487.5	485.4	483.3
22.5°	3430.7	3313.3	2501.1	1355.8	625.0	490.7	474.9	466.4	456.8	452.6	451.6
25°	3546.0	3353.5	2315.0	1029.0	500.2	459.0	446.3	430.4	417.7	412.5	410.3
27.5°	3658.0	3378.9	2082.3	761.5	446.3	429.4	406.1	383.9	374.3	372.3	370.1
30°	3777.5	3387.3	1817.9	568.0	413.5	392.4	358.5	333.1	327.8	328.9	328.9
32.5°	3923.5	3400.0	1551.4	465.4	386.0	347.9	307.7	281.3	277.1	281.3	280.2
35°	4098.0	3425.4	1294.5	428.3	361.7	302.5	259.1	236.9	232.7	235.9	234.7
37.5°	4334.9	3466.7	1054.4	420.9	341.6	264.3	217.8	199.9	199.9	200.9	199.9
40°	4650.0	3576.6	839.7	415.6	331.0	235.9	184.0	176.6	179.8	181.9	181.9
42.5°	5034.0	3810.3	694.8	409.3	319.4	223.1	167.1	163.9	169.2	171.3	171.3
45°	5464.4	4106.5	644.0	398.7	308.8	231.6	159.7	155.5	161.8	162.9	163.9
47.5°	5909.5	4396.2	637.7	387.0	298.3	244.3	157.5	148.0	155.5	156.5	157.5
50°	6360.1	4585.5	644.0	369.1	281.3	244.3	158.7	140.6	147.0	150.2	151.2
52.5°	6813.8	4672.3	639.8	329.9	251.7	229.5	158.7	134.3	140.6	142.8	142.8
55°	7253.7	4655.3	575.3	271.8	213.6	203.1	154.4	129.0	133.2	134.3	134.3
57.5°	7601.6	4419.5	455.8	211.6	173.4	169.2	140.6	122.7	125.9	124.7	124.7
60°	7783.5	3901.3	325.7	162.9	136.4	133.2	123.7	114.2	116.3	111.0	110.0
62.5°	7785.7	3216.0	217.8	129.0	109.0	105.8	105.8	102.6	100.4	89.9	86.7
65°	7619.6	2455.6	144.9	102.6	87.7	82.5	88.9	87.7	80.4	65.6	63.4
67.5°	7243.2	1609.6	110.0	80.4	67.6	64.5	70.8	74.0	68.8	55.0	53.9
70°	6469.0	937.0	90.9	62.4	50.7	47.6	57.1	63.4	57.1	44.4	42.3
72.5°	5373.4	505.5	74.0	46.5	34.8	31.8	45.5	51.9	45.5	32.8	31.8
75°	3486.7	270.7	57.1	30.6	17.9	20.1	33.8	38.0	31.8	21.1	19.1
77.5°	1170.8	119.5	36.0	14.8	8.5	8.5	20.1	23.3	14.8	7.4	6.4
80°	261.2	49.7	14.8	6.4	3.2	3.2	4.2	4.2	2.2	0.0	0.0
82.5°	85.7	20.1	6.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.8	7.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	1.0	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)