

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: P967865

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

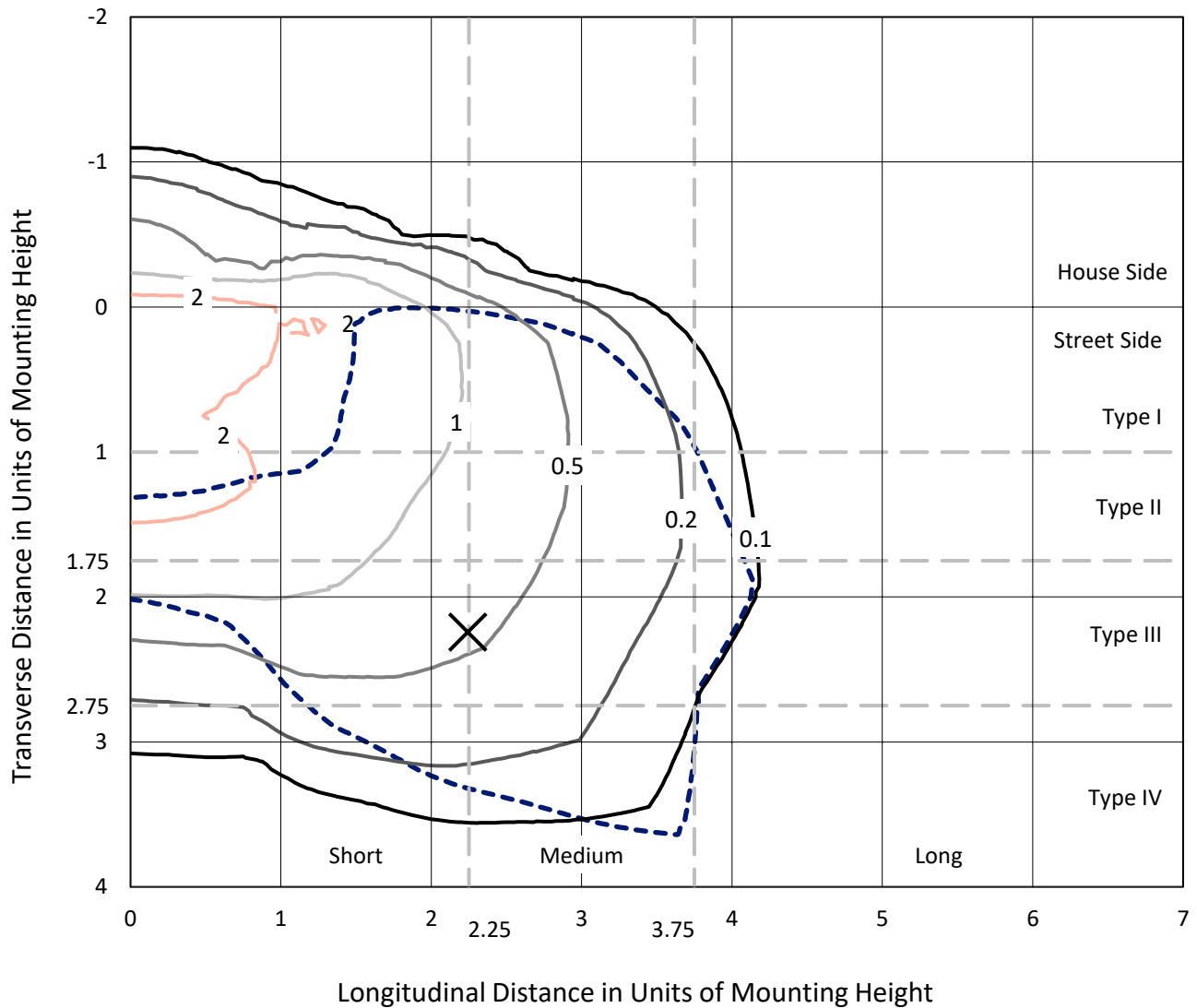
Lumens per Lamp: N/A  
Luminaire Lumens: 15557.5 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

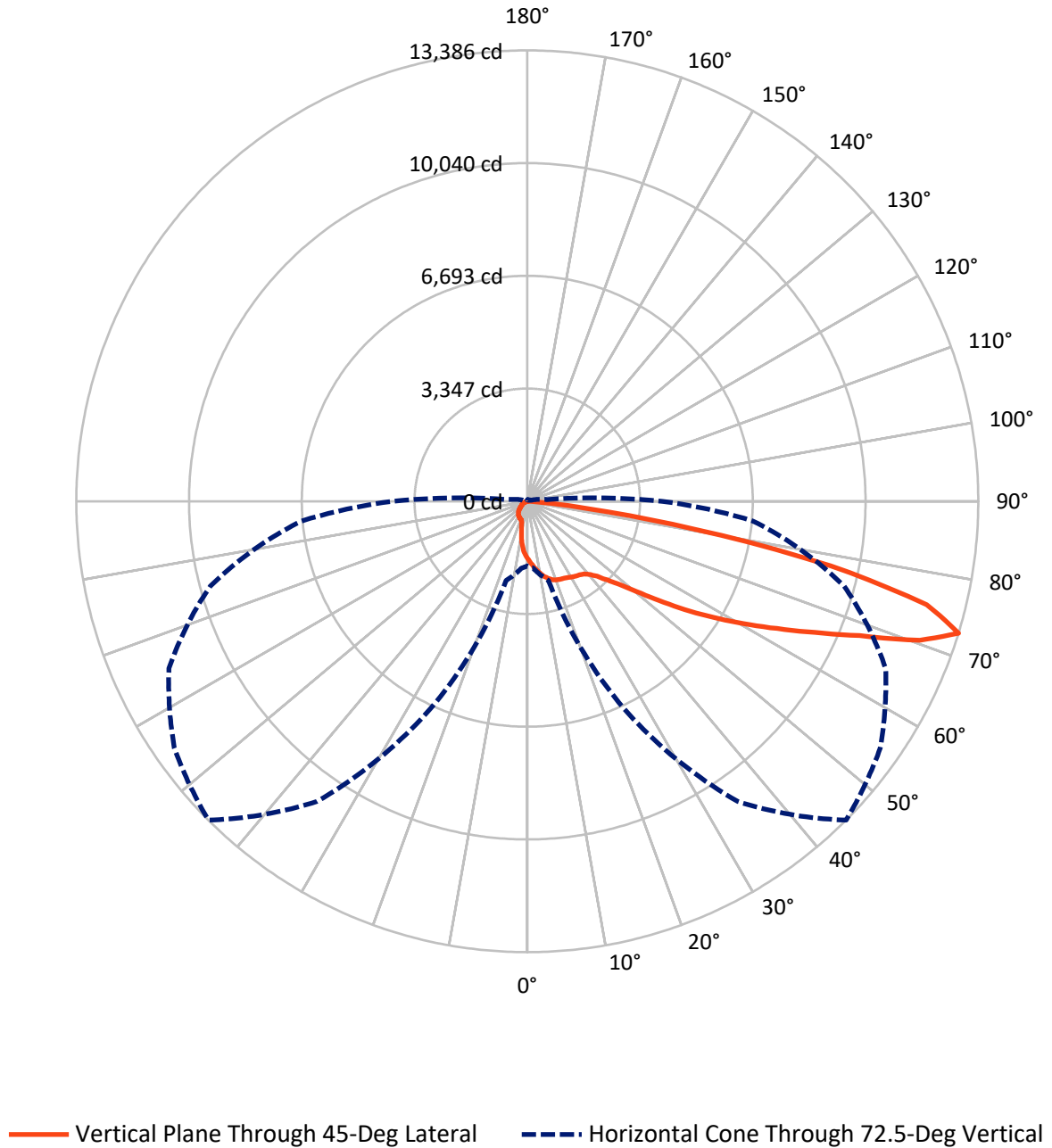
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.7	0.0	1634.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	13922.8	0.0	13922.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	15557.5	0.0	15557.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.6	1.0
10°-20°	469.3	3.0
20°-30°	770.7	5.0
30°-40°	1093.0	7.0
40°-50°	1806.7	11.6
50°-60°	3245.5	20.9
60°-70°	4506.5	29.0
70°-80°	3268.9	21.0
80°-90°	236.3	1.5
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°	15557.5	100.0
0°-180°	15557.5	100.0

**Coefficient of Utilization**



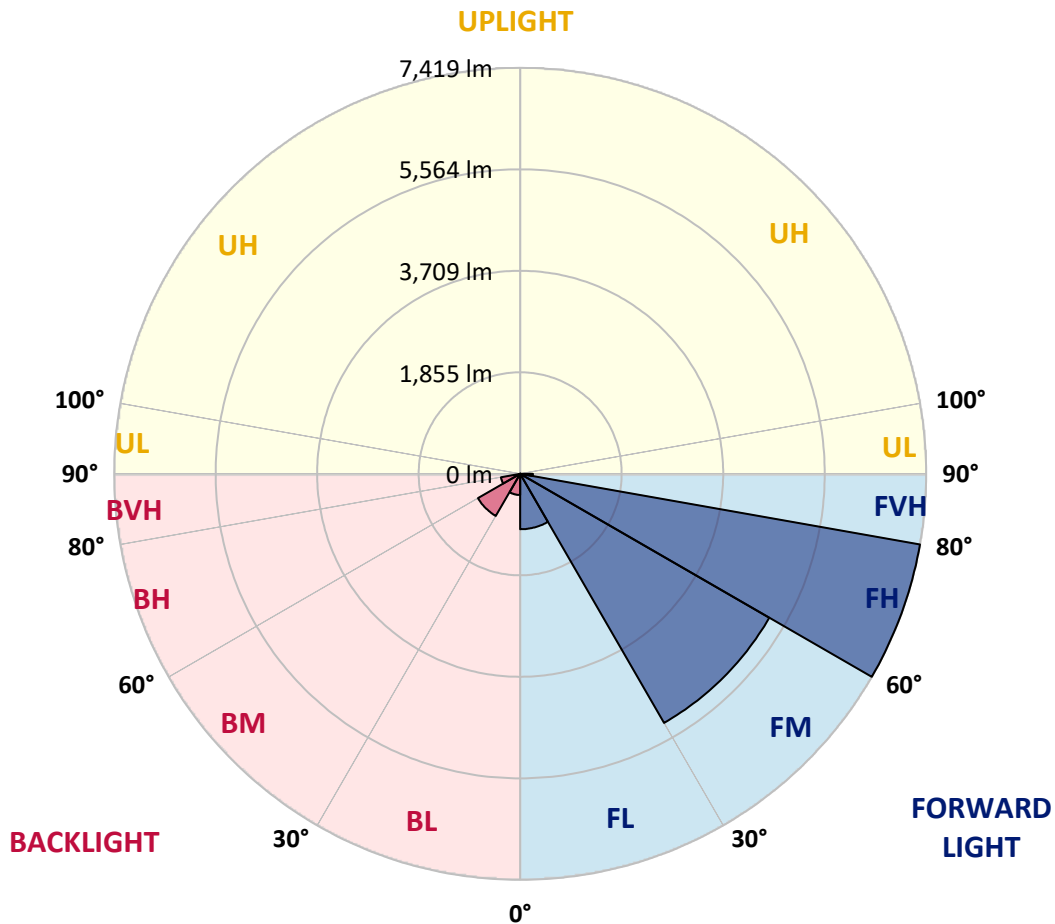
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.4	6.5			
FM (30°-60°)	5256.1	33.8			
FH (60°-80°)	7418.9	47.7			G3/7500
FVH (80°-90°)	234.3	1.5			G3/500
BL (0°-30°)	387.2	2.5	B1/500		
BM (30°-60°)	889.0	5.7	B1/1000		
BH (60°-80°)	356.5	2.3	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: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4
2.5°	1861.5	1864.7	1862.5	1849.8	1828.6	1816.9	1810.6	1789.3	1775.5	1751.1	1725.6
5°	2032.5	2045.2	2037.8	2012.3	1972.0	1943.3	1934.8	1891.2	1852.0	1806.3	1753.2
7.5°	2214.1	2220.5	2206.6	2173.7	2119.6	2070.7	2063.3	2002.7	1940.1	1870.0	1797.8
10°	2371.2	2378.6	2357.4	2309.6	2248.0	2187.6	2176.9	2110.0	2035.6	1949.7	1857.3
12.5°	2502.9	2510.3	2482.8	2425.4	2357.4	2294.8	2284.1	2214.1	2132.3	2036.8	1922.1
15°	2602.7	2616.5	2579.3	2517.8	2444.5	2381.9	2376.6	2307.5	2227.8	2121.6	1999.6
17.5°	2661.1	2674.9	2639.9	2565.6	2502.9	2449.9	2443.4	2386.1	2311.8	2209.8	2074.9
20°	2670.6	2683.4	2646.2	2581.5	2529.5	2487.0	2483.8	2442.4	2388.2	2290.6	2156.7
22.5°	2642.0	2657.9	2624.0	2571.9	2535.8	2513.5	2509.3	2485.9	2455.1	2372.3	2233.2
25°	2612.3	2625.0	2599.5	2553.9	2534.7	2532.7	2535.8	2531.5	2525.2	2455.1	2322.3
27.5°	2610.2	2624.0	2595.3	2551.7	2541.2	2563.4	2566.6	2586.8	2592.1	2530.5	2408.4
30°	2628.2	2637.7	2610.2	2564.4	2559.2	2610.2	2611.2	2647.4	2655.8	2594.3	2493.3
32.5°	2667.5	2678.1	2650.5	2583.6	2576.1	2647.4	2650.5	2698.3	2712.0	2662.2	2582.6
35°	2759.9	2772.6	2740.7	2636.7	2610.2	2682.3	2692.0	2748.2	2775.8	2734.4	2674.9
37.5°	2990.3	2953.1	2909.6	2743.9	2687.7	2737.6	2753.6	2819.4	2868.2	2820.4	2785.3
40°	3562.7	3445.8	3309.9	2926.6	2823.6	2855.4	2868.2	2934.1	3000.9	2954.3	2937.2
42.5°	4421.7	4283.7	4064.9	3347.1	3028.6	3044.5	3054.0	3111.4	3205.9	3168.7	3173.0
45°	5187.4	5137.5	4914.5	4064.9	3411.9	3333.3	3345.0	3374.7	3513.8	3500.1	3527.6
47.5°	5775.7	5747.0	5575.0	4889.0	4059.6	3686.9	3719.8	3733.7	3934.4	3983.2	4057.6
50°	6228.0	6217.4	6063.5	5621.7	4906.0	4208.3	4220.0	4190.3	4490.7	4611.9	4753.0
52.5°	6654.9	6691.0	6577.4	6302.4	5809.7	4891.1	4889.0	4748.8	5154.5	5337.1	5578.2
55°	7040.4	7053.1	7064.8	6996.9	6718.7	5668.5	5648.3	5418.9	5924.4	6113.4	6374.6
57.5°	7402.6	7407.8	7511.9	7651.0	7664.8	6503.1	6465.9	6190.9	6765.4	6900.2	7060.6
60°	7645.7	7670.1	7889.9	8276.5	8445.3	7364.3	7344.1	7063.8	7621.3	7683.9	7654.2
62.5°	7295.2	7444.0	7998.3	8765.0	9182.3	8318.9	8309.4	8046.0	8521.7	8470.8	8215.9
65°	5905.2	6156.9	7131.7	9095.2	9905.4	9385.1	9398.8	9118.5	9446.7	9281.1	8672.5
67.5°	4130.8	4396.2	5549.5	9121.8	10713.5	10637.0	10716.7	10277.1	10429.0	10057.3	8780.9
70°	2856.5	2993.5	3744.2	8550.4	11343.3	12361.6	12359.4	11700.1	11405.9	10410.9	8228.7
72.5°	1921.0	1992.1	2431.7	6783.4	10880.3	13386.3	13324.7	12787.4	11735.1	9736.6	6722.9
75°	810.3	862.2	1125.7	3812.2	8607.7	12246.9	12080.2	11300.7	10426.8	7666.9	4194.5
77.5°	257.0	279.3	443.8	1364.6	4741.3	9205.6	9029.3	7057.4	6988.3	3846.2	1533.4
80°	122.1	142.3	249.6	548.0	1865.8	5006.8	4982.4	3201.6	3006.2	1038.5	307.9
82.5°	53.1	62.6	138.1	293.0	834.7	1786.2	1822.2	1089.5	901.6	394.0	94.5
85°	17.0	22.3	63.8	134.9	352.6	443.8	438.6	259.1	363.2	214.5	32.9
87.5°	0.0	0.0	21.2	30.7	36.1	25.5	28.7	22.3	100.9	59.4	11.7
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°	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4	1704.4
2.5°	1712.9	1695.9	1666.1	1638.6	1614.1	1589.7	1574.8	1553.6	1551.4	1551.4	1556.8
5°	1724.6	1696.9	1643.8	1587.5	1522.7	1461.1	1399.5	1340.1	1321.0	1307.2	1313.5
7.5°	1758.5	1714.9	1631.1	1523.9	1400.7	1265.8	1171.3	1069.4	1030.0	1008.8	1012.0
10°	1807.4	1747.9	1620.4	1432.5	1232.9	1049.2	914.3	803.9	761.4	743.3	743.3
12.5°	1861.5	1788.2	1601.4	1318.9	1049.2	829.3	697.7	646.7	640.3	640.3	640.3
15°	1926.3	1837.1	1568.5	1185.1	857.0	656.2	609.6	611.6	618.1	622.3	622.3
17.5°	1993.2	1889.1	1516.4	1035.4	687.1	590.4	591.5	594.7	599.9	604.2	604.2
20°	2065.4	1941.1	1447.4	876.1	589.4	571.3	574.5	577.7	581.9	584.0	585.1
22.5°	2143.0	1990.0	1365.6	720.0	556.5	555.3	556.5	559.6	565.0	565.0	567.0
25°	2225.8	2044.2	1272.1	606.4	539.5	539.5	541.6	543.7	548.0	548.0	549.0
27.5°	2310.7	2094.1	1173.4	546.8	524.6	523.5	523.5	526.7	528.8	529.9	530.9
30°	2404.1	2152.5	1074.6	534.1	512.9	507.6	504.4	506.6	508.6	509.7	511.9
32.5°	2499.7	2208.8	986.5	539.5	501.2	491.7	481.0	478.9	478.9	483.2	486.4
35°	2605.9	2270.4	918.5	557.5	494.9	468.3	451.3	441.8	442.8	449.2	452.3
37.5°	2733.4	2344.7	868.6	573.4	490.6	441.8	414.1	402.4	395.0	402.4	400.4
40°	2900.0	2454.1	832.5	586.2	485.3	410.9	373.8	354.6	340.9	345.1	343.0
42.5°	3145.3	2626.0	818.8	587.2	473.7	374.8	332.4	306.9	286.7	287.8	283.5
45°	3489.4	2897.9	889.9	573.4	448.1	335.6	288.8	254.8	242.1	238.9	234.7
47.5°	3960.9	3294.0	1054.4	544.8	410.9	297.4	246.4	217.7	208.2	202.8	199.7
50°	4592.7	3802.6	1237.1	512.9	373.8	261.3	211.4	193.3	186.9	181.6	180.5
52.5°	5325.4	4318.7	1386.8	481.0	336.6	229.4	189.0	178.4	173.1	168.8	167.8
55°	5997.6	4674.5	1378.3	447.1	300.5	203.9	173.1	166.8	160.3	156.1	154.0
57.5°	6416.0	4724.4	1136.2	409.9	259.1	183.7	158.3	154.0	146.6	141.2	140.2
60°	6608.2	4439.8	796.4	361.0	217.7	164.6	142.3	140.2	130.6	123.2	121.1
62.5°	6643.2	3911.0	530.9	300.5	181.6	146.6	126.4	123.2	110.4	97.7	91.3
65°	6501.0	3155.0	367.5	234.7	155.1	127.4	108.3	102.0	88.1	75.4	71.1
67.5°	6050.7	2215.1	255.9	168.8	131.7	100.9	86.0	83.8	73.3	62.6	59.4
70°	5225.7	1262.6	171.0	126.4	104.0	69.0	68.0	70.1	59.4	50.9	46.7
72.5°	4006.5	577.7	106.2	92.4	71.1	46.7	54.1	55.2	45.6	38.2	34.0
75°	2358.5	247.4	66.9	59.4	36.1	30.7	39.3	40.4	30.7	24.4	21.2
77.5°	802.8	93.5	42.4	35.1	18.0	17.0	25.5	25.5	17.0	9.5	7.5
80°	182.7	35.1	21.2	13.8	8.5	7.5	8.5	7.5	4.2	1.0	0.0
82.5°	52.1	13.8	8.5	5.3	3.2	3.2	1.0	0.0	0.0	0.0	0.0
85°	14.9	6.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	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)