

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: P966272

Luminaire Tested: **NVN-SB4B-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4B-827-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

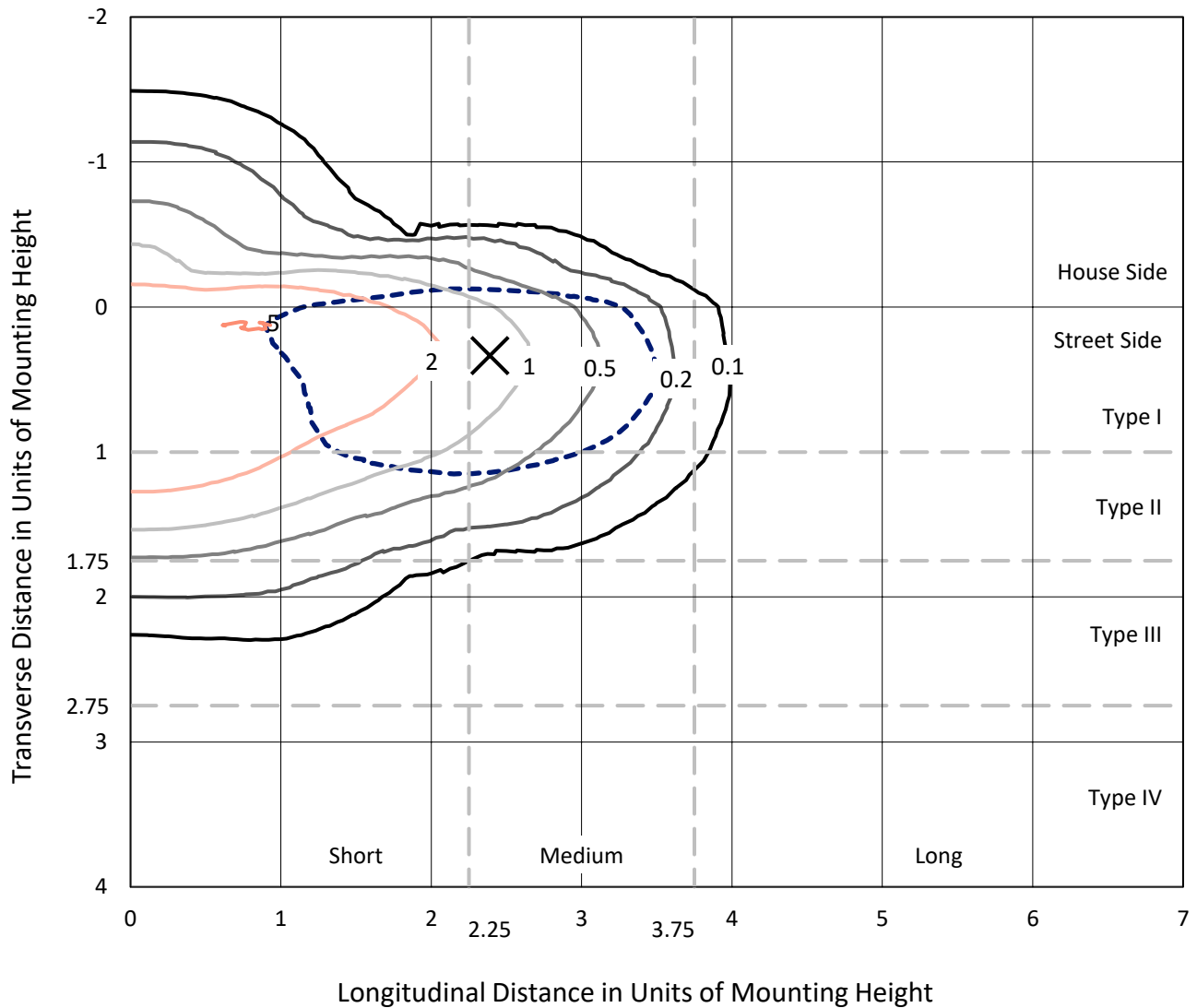
Lumens per Lamp: N/A  
Luminaire Lumens: 14688.2 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P966272  
 CATALOG NUMBER: NVN-SB4B-827-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

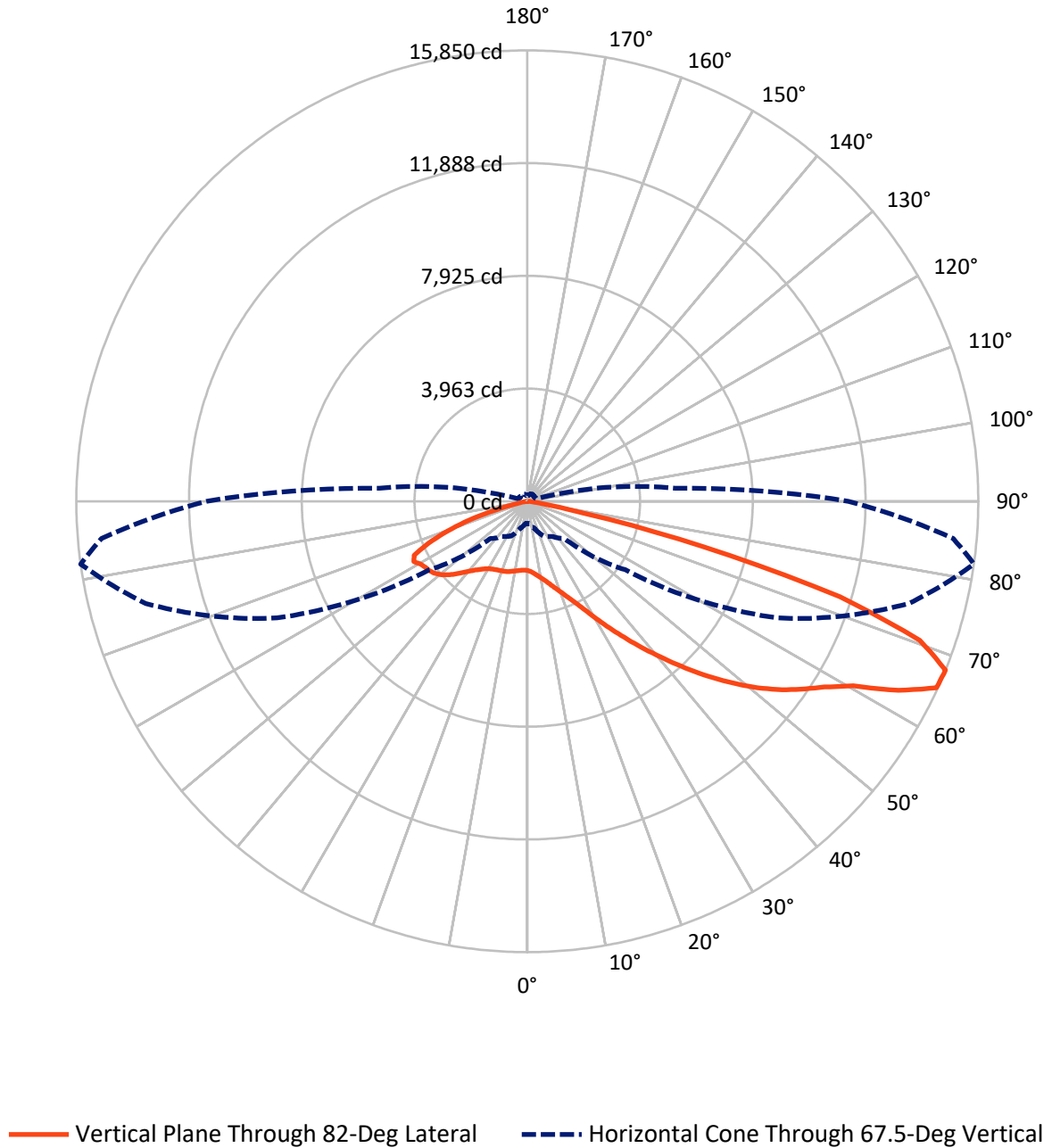
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P966272  
CATALOG NUMBER: NVN-SB4B-827-U-T2-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P966272

CATALOG NUMBER: NVN-SB4B-827-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2660.6	0.0	2660.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12027.6	0.0	12027.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	14688.2	0.0	14688.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	1.5
10°-20°	563.4	3.8
20°-30°	902.3	6.1
30°-40°	1595.6	10.9
40°-50°	2795.6	19.0
50°-60°	3728.6	25.4
60°-70°	3471.1	23.6
70°-80°	1332.2	9.1
80°-90°	82.7	0.6
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°	14688.2	100.0
0°-180°	14688.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P966272

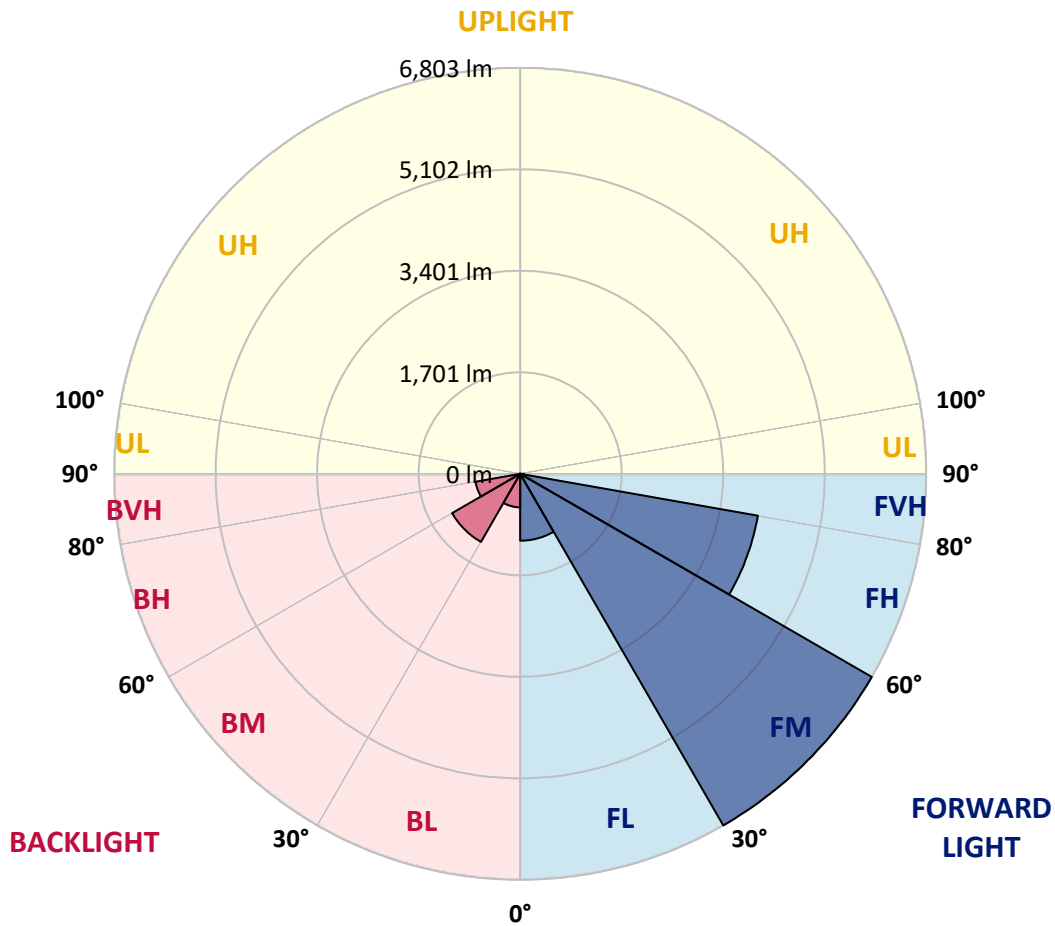
CATALOG NUMBER: NVN-SB4B-827-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.6	7.6			
FM (30°-60°)	6803.0	46.3			
FH (60°-80°)	4043.9	27.5			G2/5000
FVH (80°-90°)	60.2	0.4			G1/100
BL (0°-30°)	561.9	3.8	B2/1000		
BM (30°-60°)	1316.7	9.0	B2/2500		
BH (60°-80°)	759.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	22.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



REPORT NUMBER: P966272

CATALOG NUMBER: NVN-SB4B-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4
2.5°	2571.9	2586.7	2578.2	2574.0	2566.6	2556.0	2547.5	2521.1	2493.6	2475.7	2469.3
5°	2623.7	2638.6	2637.4	2641.6	2647.0	2650.1	2648.0	2618.4	2579.3	2548.7	2530.6
7.5°	2579.3	2596.2	2610.0	2631.1	2668.1	2707.2	2726.3	2719.9	2679.8	2637.4	2615.3
10°	2453.4	2471.4	2504.2	2553.9	2632.2	2716.8	2787.6	2820.4	2795.0	2748.4	2717.8
12.5°	2222.9	2240.9	2305.4	2413.3	2544.4	2691.3	2826.7	2914.5	2920.8	2874.3	2838.3
15°	1963.8	1981.8	2050.5	2185.9	2385.8	2621.5	2847.9	3013.9	3070.0	3029.8	2986.4
17.5°	1803.1	1819.0	1870.7	1979.7	2188.0	2482.0	2840.5	3119.7	3247.6	3215.9	3164.1
20°	1754.4	1768.1	1792.5	1868.7	2042.1	2337.1	2791.9	3219.1	3439.1	3421.0	3362.9
22.5°	1806.3	1819.0	1826.3	1860.2	1969.1	2242.0	2730.5	3320.6	3661.1	3663.2	3592.4
25°	1925.8	1938.4	1930.0	1951.1	1998.7	2212.4	2707.2	3440.1	3940.3	3963.6	3883.2
27.5°	2122.5	2123.5	2103.4	2102.4	2109.8	2256.7	2731.5	3568.0	4292.5	4335.9	4236.4
30°	2516.9	2501.0	2423.8	2340.3	2302.3	2390.0	2799.3	3719.3	4708.0	4785.2	4660.5
32.5°	3124.9	3101.6	2960.0	2760.1	2559.2	2604.6	2920.8	3891.6	5160.7	5300.3	5148.0
35°	3784.8	3778.5	3630.4	3333.3	2982.2	2910.3	3118.7	4117.9	5654.5	5876.6	5695.8
37.5°	4398.2	4395.0	4310.4	3960.4	3533.2	3336.5	3435.9	4414.1	6183.3	6504.8	6291.1
40°	4958.7	4968.2	4883.6	4570.6	4140.2	3883.2	3867.3	4780.0	6771.3	7189.0	6935.2
42.5°	5443.1	5453.6	5367.9	5136.4	4739.8	4488.1	4397.1	5228.3	7345.6	7924.0	7623.6
45°	5771.9	5837.5	5824.8	5639.8	5355.2	5094.0	5033.8	5790.9	8000.1	8703.4	8351.2
47.5°	5864.9	5925.2	6020.4	6045.9	5872.4	5615.5	5687.3	6468.9	8662.1	9483.8	9083.0
50°	5635.6	5691.5	5889.3	6152.7	6273.2	6193.9	6322.9	7195.3	9340.0	10262.1	9801.0
52.5°	5182.9	5240.0	5489.6	5906.3	6397.9	6647.5	6960.6	7911.3	9996.7	10999.3	10481.0
55°	4528.2	4588.5	4909.0	5380.6	6160.0	6834.7	7492.5	8626.2	10598.4	11662.2	11094.4
57.5°	3637.8	3682.3	4015.4	4675.3	5561.4	6648.6	7884.8	9406.6	11165.2	12313.7	11702.5
60°	2370.9	2410.1	2797.1	3533.2	4569.6	6026.8	7963.1	10277.0	11918.2	13160.8	12522.0
62.5°	1576.8	1603.2	1832.7	2373.1	3218.0	4832.9	7505.2	10971.7	13022.2	14635.0	13927.5
65°	1081.9	1108.2	1337.7	1714.2	2079.1	3196.9	6188.5	10879.8	14022.7	15805.6	14969.1
67.5°	772.0	794.2	988.8	1344.1	1504.8	1857.0	4195.1	9703.8	13878.8	15850.1	15025.2
70°	553.1	565.8	726.5	1046.9	1196.1	1115.7	2332.9	7421.6	12151.9	14636.1	13881.0
72.5°	387.0	391.2	504.4	797.3	963.4	814.3	1110.4	4948.1	9190.9	11487.8	10761.3
75°	262.3	267.5	339.5	584.8	773.1	621.9	587.9	2653.3	5395.5	6358.9	5700.0
77.5°	160.7	162.9	218.9	399.7	578.5	473.8	378.6	1124.1	2087.5	2049.5	1747.0
80°	90.9	90.9	139.6	248.6	394.4	305.7	265.5	478.0	660.9	580.6	511.9
82.5°	50.7	51.9	101.5	154.4	261.2	180.8	146.0	221.0	285.6	252.8	220.0
85°	21.1	23.3	62.4	73.0	124.7	89.9	59.2	93.1	105.8	94.1	68.8
87.5°	2.2	3.2	19.1	13.7	14.8	17.9	8.5	17.9	14.8	14.8	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P966272

CATALOG NUMBER: NVN-SB4B-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4	2433.4
2.5°	2449.2	2433.4	2393.2	2346.6	2285.3	2255.7	2215.5	2188.0	2164.7	2166.8	2145.7
5°	2496.8	2456.6	2366.7	2254.6	2115.0	2015.7	1909.9	1836.9	1777.7	1764.9	1736.5
7.5°	2562.4	2499.0	2341.3	2139.4	1903.5	1724.8	1565.2	1462.6	1389.6	1366.3	1343.1
10°	2647.0	2554.9	2308.6	1994.4	1655.0	1427.6	1256.3	1176.0	1126.3	1109.4	1096.6
12.5°	2745.4	2619.5	2265.2	1817.8	1399.1	1180.2	1071.2	1031.0	1015.3	1009.9	1006.8
15°	2869.1	2699.8	2199.6	1608.5	1182.3	1029.0	982.5	977.1	979.3	977.1	976.1
17.5°	3016.1	2787.6	2092.8	1392.8	1036.4	951.8	934.8	939.1	944.3	943.3	941.2
20°	3176.8	2874.3	1956.4	1201.3	937.0	896.8	887.2	891.4	895.7	893.6	892.6
22.5°	3359.7	2967.4	1805.2	1052.3	870.3	846.0	835.5	836.5	836.5	832.3	830.1
25°	3578.7	3070.0	1646.6	946.5	819.6	800.5	787.8	783.6	777.3	764.5	762.5
27.5°	3839.9	3178.9	1494.2	872.5	779.4	761.4	746.6	736.1	720.2	699.0	696.9
30°	4133.8	3311.1	1365.3	825.9	747.6	729.7	712.8	696.9	673.6	647.2	645.1
32.5°	4479.7	3452.8	1271.1	795.3	719.1	700.1	680.0	660.9	635.6	609.2	610.2
35°	4892.1	3624.1	1216.2	774.1	696.9	671.5	649.3	628.1	609.2	585.9	583.7
37.5°	5339.4	3806.0	1199.2	763.5	682.1	643.0	617.6	602.8	600.6	586.9	585.9
40°	5829.1	4021.7	1212.0	757.2	666.2	615.5	587.9	584.8	590.1	565.8	566.8
42.5°	6347.2	4277.6	1233.1	749.8	644.0	587.9	561.5	561.5	557.3	523.5	523.5
45°	6907.7	4572.7	1254.2	731.8	617.6	560.5	540.4	533.0	515.0	482.3	481.1
47.5°	7472.5	4873.1	1270.1	699.0	585.9	537.2	519.3	502.4	475.9	446.3	445.3
50°	8008.5	5142.7	1253.2	650.4	549.9	515.0	496.0	472.7	444.1	424.0	420.9
52.5°	8487.6	5376.4	1181.2	593.3	511.9	491.8	474.8	450.5	427.2	406.1	404.0
55°	8904.3	5565.7	1054.3	539.4	478.0	471.6	454.7	424.0	392.4	374.3	372.3
57.5°	9304.0	5709.6	895.7	494.9	447.3	449.5	424.0	396.6	367.0	347.9	345.8
60°	9836.0	5902.0	734.9	453.7	414.5	420.9	393.4	373.3	336.3	312.0	308.8
62.5°	10686.2	6201.2	583.7	402.9	376.5	378.6	367.0	342.7	298.2	269.7	267.5
65°	11360.9	6091.3	460.0	347.9	333.1	336.3	336.3	309.9	262.3	229.5	226.3
67.5°	11284.7	5215.7	367.0	294.0	291.9	294.0	301.3	279.2	232.7	206.2	202.0
70°	10395.3	4148.7	294.0	244.3	253.8	248.6	269.7	254.8	209.4	183.0	179.8
72.5°	8482.4	2988.6	224.2	202.0	194.5	203.1	243.2	229.5	174.5	144.8	141.8
75°	4956.6	1594.7	167.1	159.7	140.6	169.2	215.8	195.7	133.2	106.8	103.6
77.5°	1613.8	556.3	122.7	117.4	104.7	136.4	184.0	164.9	109.0	84.6	81.4
80°	432.6	168.1	83.5	77.2	67.6	101.5	146.0	131.1	78.2	54.9	53.9
82.5°	173.4	70.8	48.7	43.4	37.0	69.8	115.3	105.8	58.1	34.8	34.8
85°	56.1	23.3	17.9	13.7	16.9	43.4	68.8	72.0	41.2	17.9	13.7
87.5°	7.4	3.2	3.2	4.2	3.2	7.4	21.1	20.1	11.6	2.2	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)