

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: P964700

Luminaire Tested: **NVN-SB3C-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20040.8 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

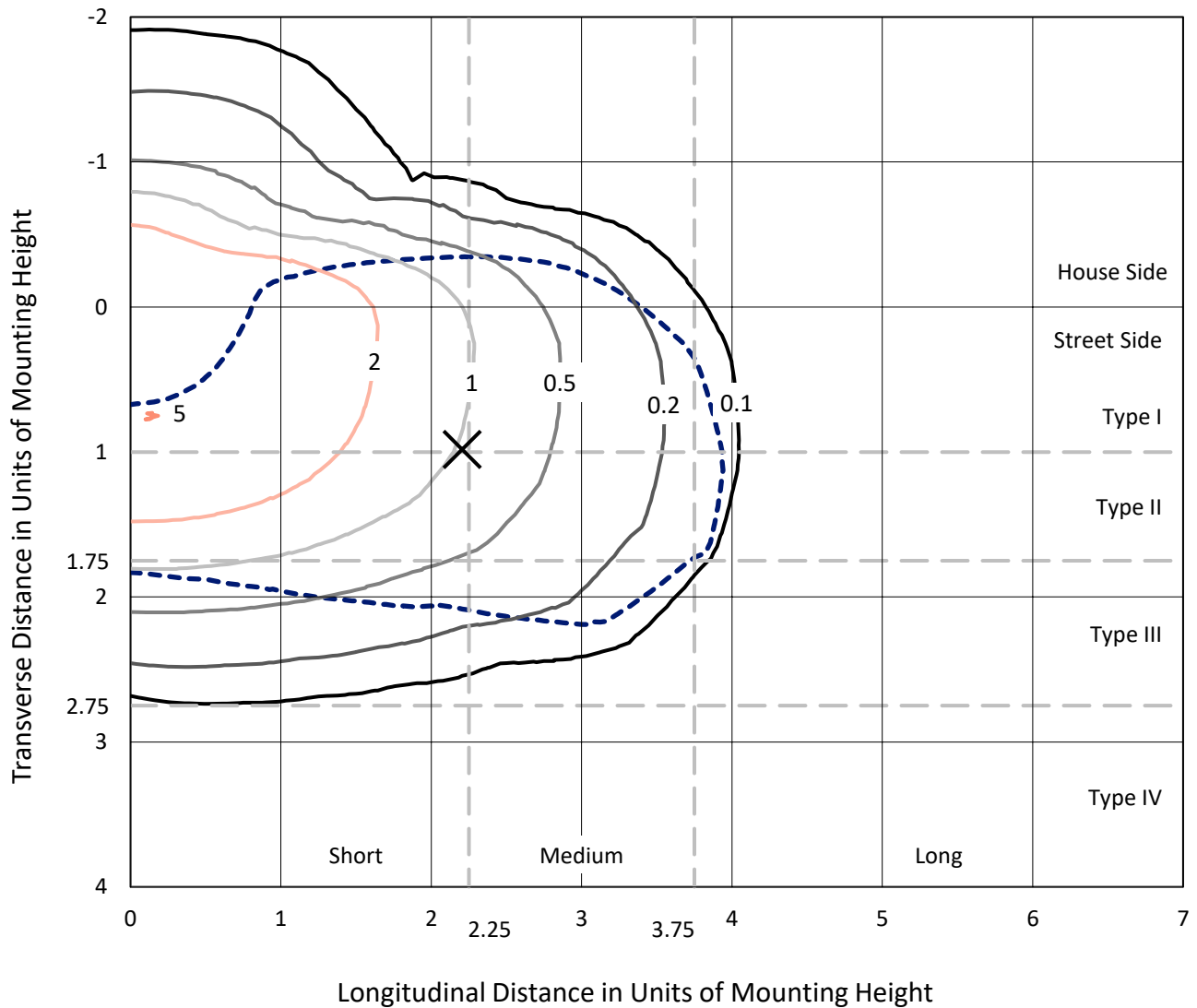
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

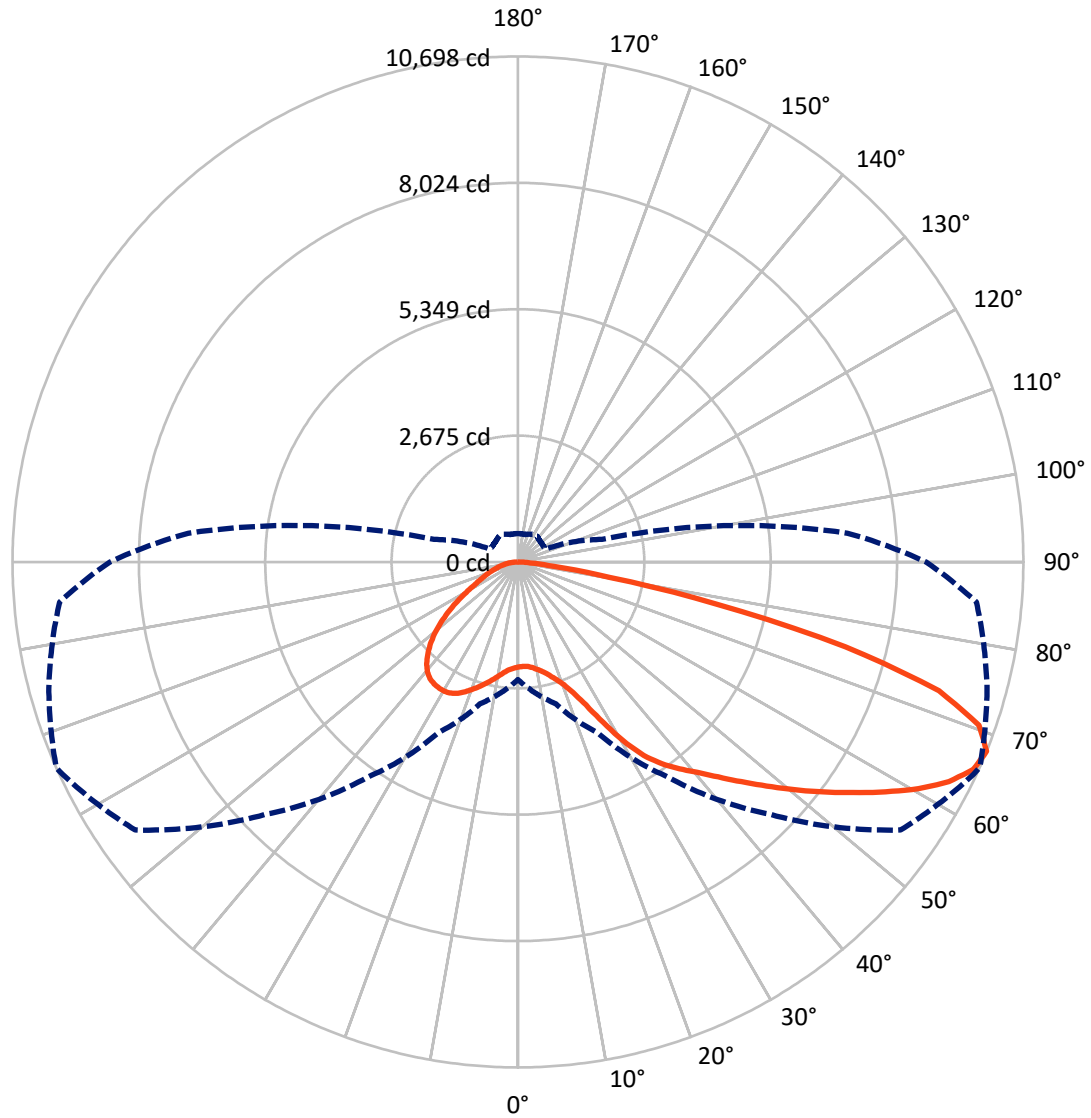
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4983.1	0.0	4983.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15057.7	0.0	15057.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	20040.8	0.0	20040.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.1
10°-20°	728.1	3.6
20°-30°	1403.4	7.0
30°-40°	2460.7	12.3
40°-50°	3658.2	18.3
50°-60°	4637.1	23.1
60°-70°	4537.3	22.6
70°-80°	2164.3	10.8
80°-90°	231.3	1.2
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°	20040.8	100.0
0°-180°	20040.8	100.0

Coefficient of Utilization



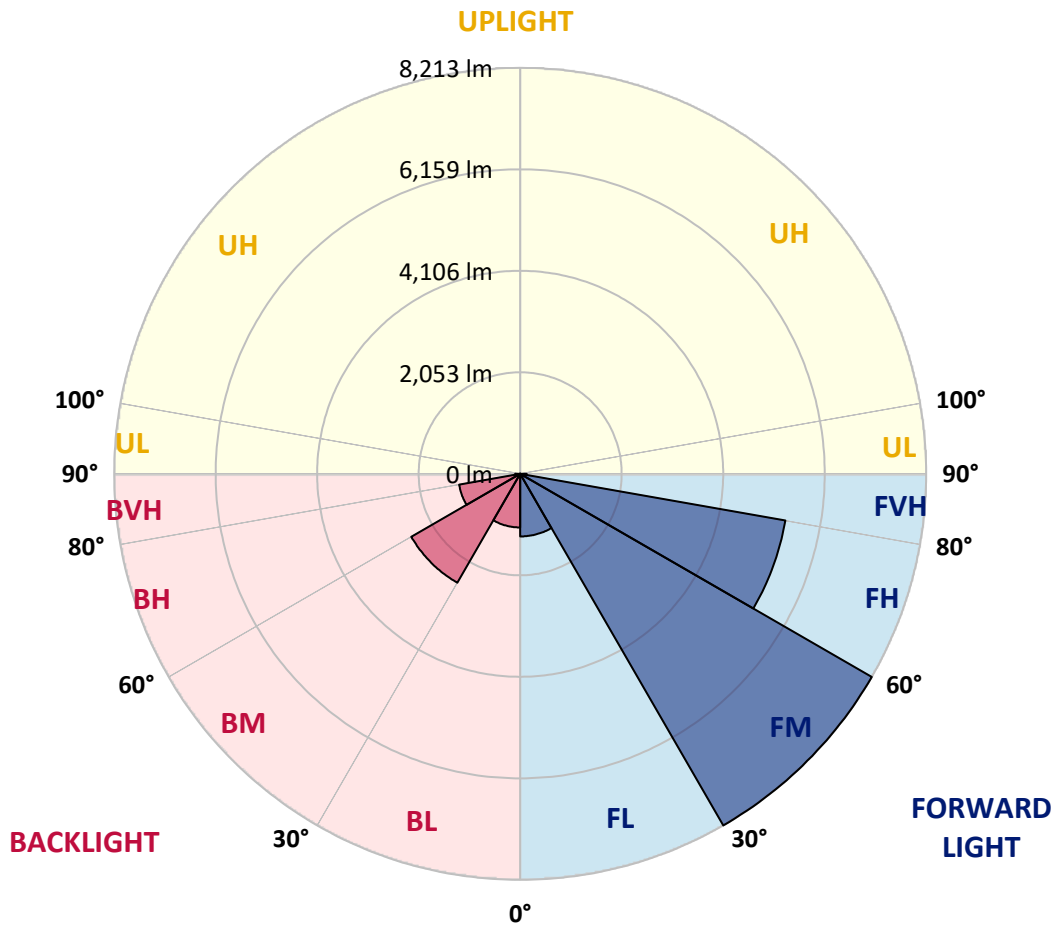
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.4	6.3			
FM (30°-60°)	8212.6	41.0			
FH (60°-80°)	5447.6	27.2			G3/7500
FVH (80°-90°)	131.1	0.7			G2/225
BL (0°-30°)	1085.5	5.4	B3/2500		
BM (30°-60°)	2543.4	12.7	B3/5000		
BH (60°-80°)	1254.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	100.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8
2.5°	2199.6	2212.3	2209.1	2203.9	2202.8	2204.9	2208.1	2211.2	2210.1	2215.4	2223.8
5°	2193.3	2205.9	2204.9	2204.9	2209.1	2217.5	2222.8	2228.0	2222.8	2229.1	2240.6
7.5°	2197.5	2207.0	2211.2	2215.4	2226.0	2241.8	2254.4	2266.0	2259.6	2267.0	2281.8
10°	2251.2	2258.6	2262.8	2262.8	2270.2	2288.1	2300.7	2321.7	2316.5	2328.1	2347.0
12.5°	2349.1	2356.5	2356.5	2352.3	2357.6	2369.2	2373.4	2396.6	2387.0	2406.0	2424.9
15°	2469.2	2483.9	2472.3	2464.9	2467.1	2478.7	2477.6	2495.5	2486.0	2501.8	2518.6
17.5°	2601.9	2620.8	2601.9	2600.8	2596.6	2609.2	2610.3	2626.0	2609.2	2620.8	2632.4
20°	2758.8	2785.0	2769.2	2774.6	2765.0	2770.4	2775.6	2798.8	2772.4	2780.8	2777.6
22.5°	2979.9	3011.4	2994.6	3014.6	3008.3	3004.1	3003.0	3044.0	3003.0	3006.2	2975.7
25°	3302.0	3340.0	3310.4	3337.9	3337.9	3351.5	3367.3	3420.0	3351.5	3331.6	3252.5
27.5°	3778.0	3815.9	3758.0	3774.9	3769.5	3803.3	3786.5	3917.0	3843.2	3810.6	3651.7
30°	4350.8	4418.2	4308.7	4304.5	4299.3	4353.0	4377.2	4463.5	4388.7	4356.0	4164.5
32.5°	4969.9	5040.5	4910.0	4872.0	4852.0	4884.6	4864.6	4934.1	4882.6	4832.1	4595.1
35°	5624.9	5694.4	5570.2	5496.5	5416.4	5347.9	5276.4	5294.2	5245.8	5169.0	4923.6
37.5°	6244.0	6371.4	6239.8	6160.9	6013.5	5879.7	5679.6	5596.5	5551.2	5480.7	5233.2
40°	6874.8	6947.4	6847.4	6780.0	6620.0	6410.3	6090.3	5914.5	5853.4	5784.9	5575.4
42.5°	7339.1	7408.6	7354.9	7308.6	7183.3	6940.1	6526.2	6306.1	6217.8	6140.9	5962.9
45°	7707.6	7759.2	7725.5	7742.3	7688.7	7452.8	6977.9	6726.3	6634.7	6540.9	6400.9
47.5°	7856.1	7910.8	7964.6	8064.6	8156.2	7982.5	7463.3	7181.2	7084.3	6988.4	6850.5
50°	7839.3	7895.1	8050.9	8263.6	8547.9	8490.0	7975.1	7665.6	7576.0	7466.5	7339.1
52.5°	7704.5	7767.7	7967.7	8321.5	8774.3	8870.1	8496.3	8165.7	8081.4	7950.8	7823.4
55°	7350.7	7388.6	7688.7	8189.9	8828.0	9135.4	9007.0	8698.5	8614.2	8432.1	8293.1
57.5°	6694.7	6749.4	7186.4	7835.0	8693.2	9315.5	9455.5	9258.6	9177.5	8915.3	8770.1
60°	5838.6	5926.0	6426.2	7239.1	8350.0	9314.5	9863.1	9809.4	9741.9	9391.4	9239.7
62.5°	4869.9	4971.0	5452.2	6396.7	7749.7	9050.1	10117.9	10270.5	10235.8	9830.4	9636.6
65°	3740.1	3809.6	4288.7	5306.9	6815.7	8482.6	10147.3	10585.4	10591.6	10164.2	9844.1
67.5°	2490.2	2690.3	3106.3	3982.2	5564.8	7555.0	9888.3	10636.9	10698.0	10278.9	9739.9
70°	1215.1	1478.4	1885.8	2588.1	3982.2	6132.4	9211.3	10213.7	10349.5	9944.1	9118.6
72.5°	504.4	589.7	811.8	1277.3	2286.0	4138.1	7850.9	9065.9	9317.6	8811.1	7666.6
75°	340.1	368.5	464.3	655.0	1041.4	2040.7	5661.8	6760.0	7165.4	6654.7	5439.6
77.5°	262.2	280.1	338.0	458.1	619.1	771.8	3030.4	4073.9	4283.5	3965.4	2830.3
80°	206.3	220.1	252.7	333.7	439.1	412.8	1033.0	1845.8	1966.9	1649.9	909.8
82.5°	179.0	184.3	181.1	226.4	291.7	241.1	339.1	681.2	751.8	545.4	296.9
85°	129.6	144.2	150.6	140.0	154.8	122.2	139.0	241.1	265.4	236.9	167.4
87.5°	52.7	77.9	95.8	90.5	56.9	34.7	43.2	70.5	81.1	88.5	54.7
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°	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8	2222.8
2.5°	2224.9	2232.2	2237.6	2243.8	2248.0	2254.4	2267.0	2274.4	2275.4	2280.7	2279.6
5°	2244.9	2255.4	2267.0	2283.9	2302.8	2318.7	2342.8	2359.7	2366.0	2371.2	2370.2
7.5°	2288.1	2302.8	2323.9	2353.4	2380.8	2401.8	2431.3	2451.3	2471.3	2478.7	2479.7
10°	2352.3	2373.4	2403.9	2443.9	2473.4	2500.8	2531.3	2548.1	2568.1	2576.5	2580.7
12.5°	2432.3	2454.5	2494.4	2550.3	2577.7	2596.6	2607.1	2602.9	2607.1	2614.5	2616.6
15°	2524.0	2548.1	2593.5	2653.4	2672.4	2655.6	2632.4	2611.3	2608.2	2610.3	2617.6
17.5°	2632.4	2650.2	2702.9	2753.5	2739.8	2670.3	2619.8	2586.1	2569.2	2563.9	2571.3
20°	2784.0	2784.0	2827.2	2858.7	2767.2	2649.2	2570.3	2515.6	2480.8	2466.0	2462.9
22.5°	2968.3	2951.4	2978.9	2956.7	2761.9	2590.3	2480.8	2386.0	2333.3	2312.3	2309.1
25°	3202.0	3182.0	3174.6	3037.8	2724.0	2496.6	2318.7	2203.9	2157.5	2145.9	2148.0
27.5°	3554.8	3504.3	3408.4	3082.0	2654.5	2349.1	2129.0	2022.7	1996.4	1997.4	2000.6
30°	4024.4	3923.3	3688.5	3089.4	2540.8	2140.6	1935.3	1859.6	1846.8	1852.2	1870.0
32.5°	4459.3	4363.4	3975.0	3055.6	2366.0	1936.4	1761.6	1711.0	1692.1	1698.4	1706.8
35°	4800.4	4774.1	4240.2	3008.3	2151.2	1744.8	1605.8	1562.6	1525.7	1517.3	1523.7
37.5°	5122.6	5112.1	4439.3	2942.0	1938.5	1608.9	1480.4	1423.6	1369.9	1340.4	1341.4
40°	5476.5	5465.9	4569.9	2839.9	1750.0	1491.0	1367.8	1293.0	1226.7	1173.0	1178.2
42.5°	5874.5	5812.4	4632.0	2693.5	1590.0	1390.9	1276.2	1175.1	1087.7	1038.2	1041.4
45°	6309.3	6169.3	4631.0	2507.0	1455.2	1299.4	1178.2	1035.0	954.0	907.6	905.6
47.5°	6770.5	6510.4	4574.1	2300.7	1324.6	1198.2	1026.6	917.2	863.5	835.0	828.7
50°	7246.4	6829.5	4477.2	2063.8	1190.8	1083.5	931.8	857.1	816.0	789.8	780.2
52.5°	7694.0	7119.0	4360.2	1795.3	1055.0	971.9	889.7	831.8	788.6	759.2	746.5
55°	8109.9	7368.6	4195.0	1520.5	944.5	897.1	869.7	821.3	771.8	737.1	723.3
57.5°	8479.4	7530.8	3909.7	1262.5	865.5	845.5	848.7	803.4	746.5	717.1	698.1
60°	8786.9	7649.7	3487.4	1023.5	801.3	795.0	816.0	769.7	703.4	669.6	655.0
62.5°	8971.2	7647.6	2969.3	838.1	746.5	748.7	772.8	727.5	660.2	628.6	619.1
65°	8955.4	7460.2	2400.8	717.1	693.9	696.0	727.5	681.2	624.4	605.5	604.4
67.5°	8638.5	7003.2	1841.6	638.1	636.0	645.4	682.3	649.6	602.3	600.1	603.3
70°	7780.3	6054.5	1326.8	574.9	575.9	589.7	638.1	629.7	590.7	594.9	593.9
72.5°	6238.8	4616.2	890.8	508.6	509.6	531.8	595.9	613.9	579.1	634.9	643.4
75°	4154.9	2878.8	572.8	438.0	439.1	467.5	559.1	583.3	547.6	632.8	638.1
77.5°	1996.4	1294.1	414.8	368.5	368.5	394.8	483.3	522.2	466.5	491.7	450.7
80°	689.7	486.5	326.5	296.9	290.6	308.5	407.5	452.7	402.2	370.6	347.5
82.5°	271.6	252.7	262.2	230.6	209.5	221.1	316.9	373.8	295.9	267.4	266.4
85°	155.8	164.3	185.3	152.7	121.1	135.8	232.7	268.5	223.2	196.9	201.1
87.5°	42.1	57.9	85.3	78.9	54.7	57.9	110.6	148.4	128.4	99.0	102.1
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)