

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: P968175

Luminaire Tested: **NVN-SB5B-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968175
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-SB5B-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA 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: 18552.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

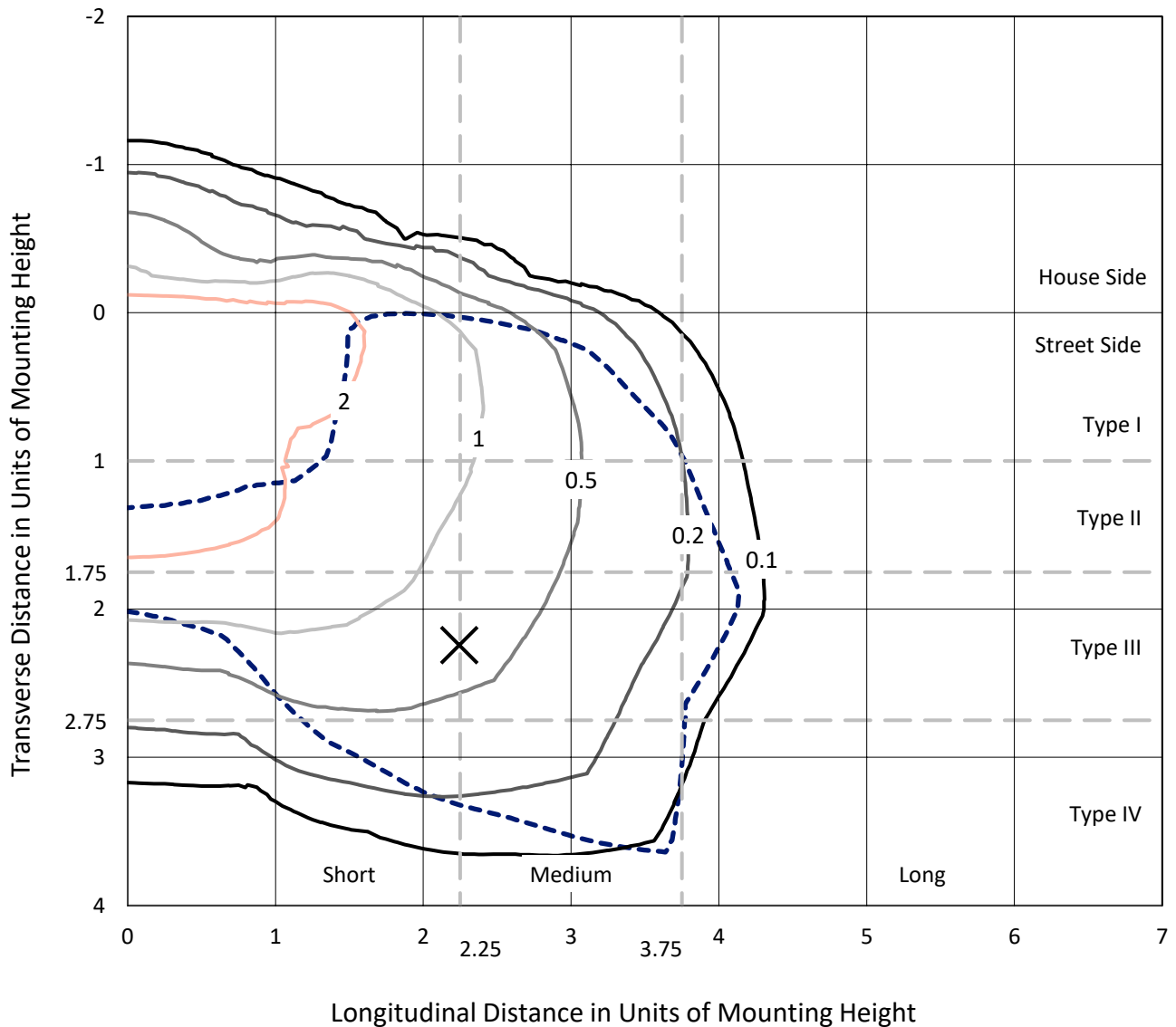
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

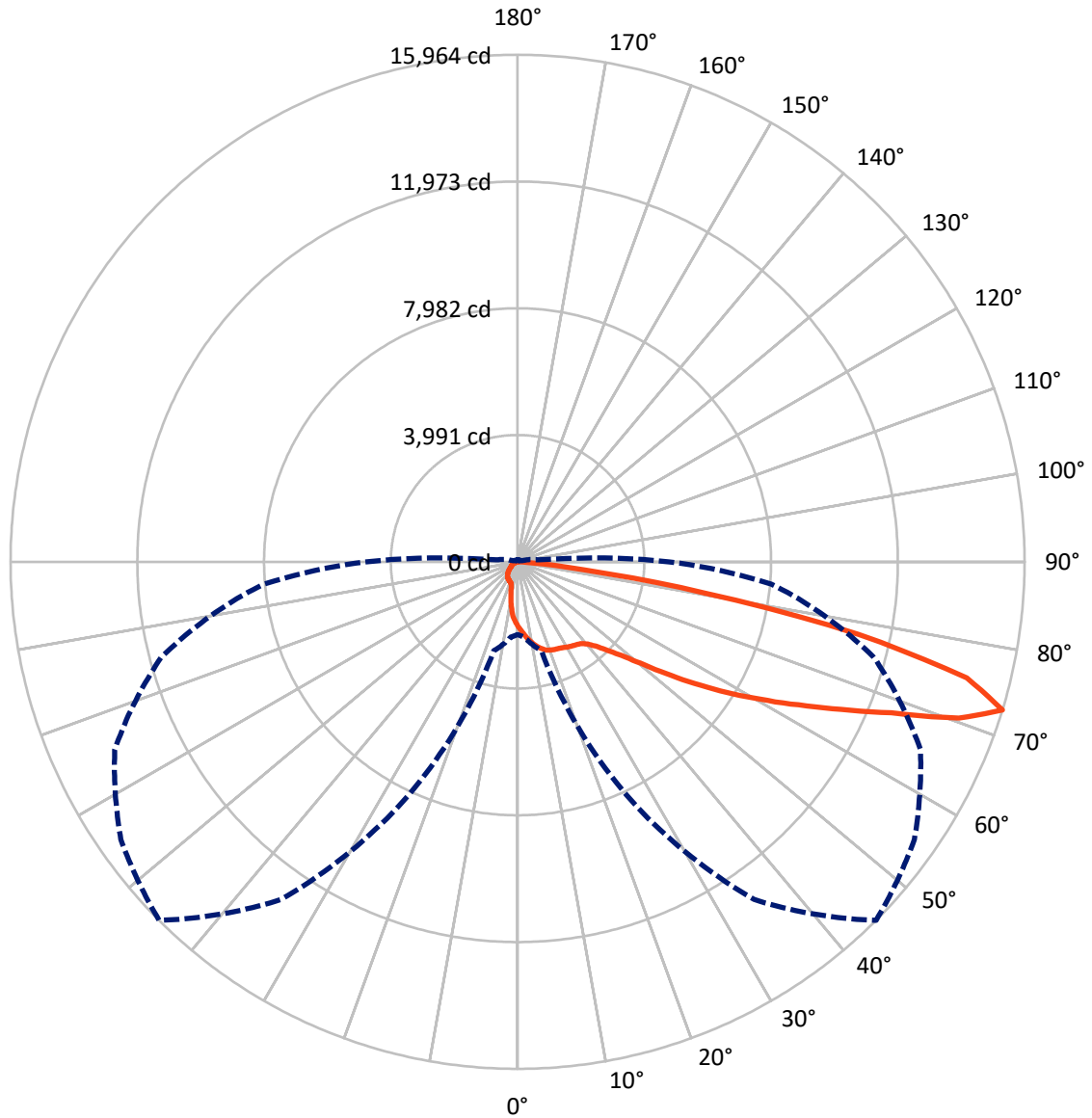
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1949.3	0.0	1949.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16603.1	0.0	16603.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	18552.5	0.0	18552.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	1.0
10°-20°	559.7	3.0
20°-30°	919.1	5.0
30°-40°	1303.4	7.0
40°-50°	2154.5	11.6
50°-60°	3870.3	20.9
60°-70°	5374.1	29.0
70°-80°	3898.2	21.0
80°-90°	281.8	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°	18552.5	100.0
0°-180°	18552.5	100.0

Coefficient of Utilization

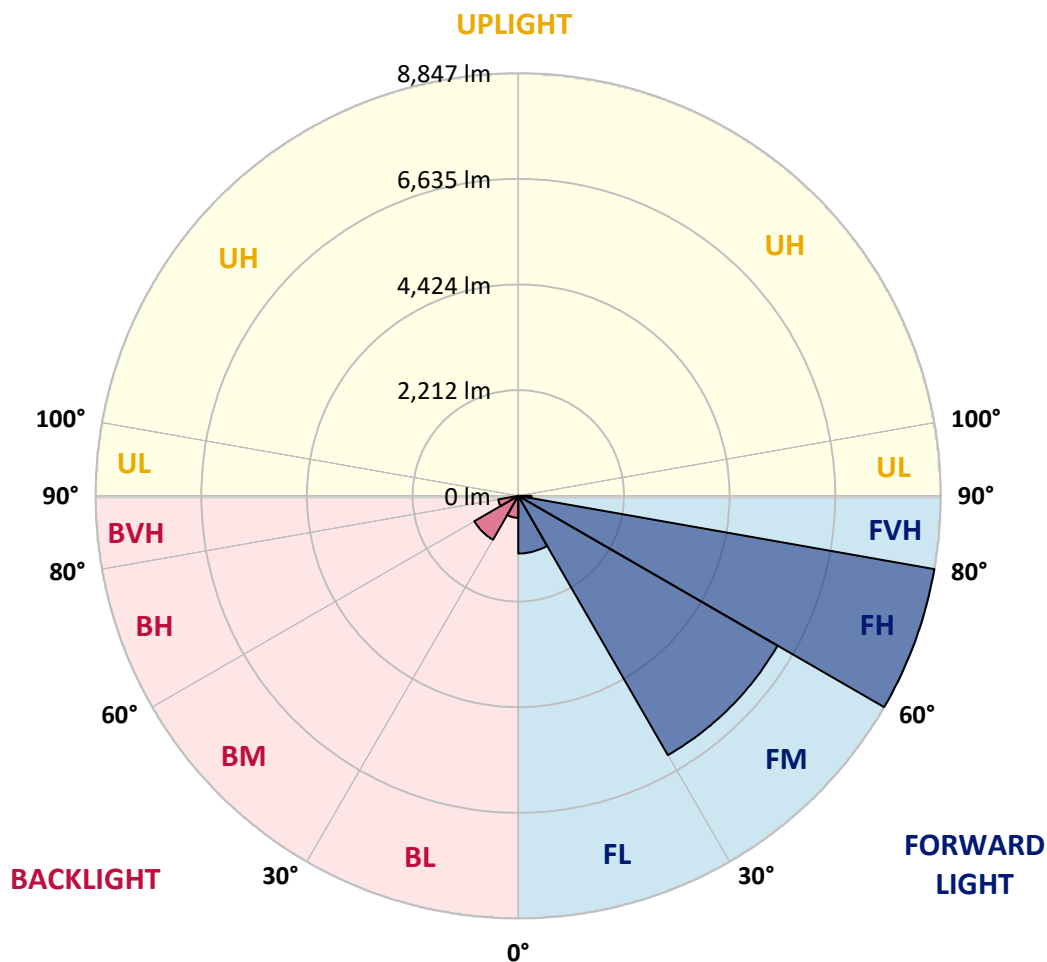


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1208.5	6.5			
FM (30°-60°)	6268.0	33.8			
FH (60°-80°)	8847.2	47.7			G4/12000
FVH (80°-90°)	279.5	1.5			G3/500
BL (0°-30°)	461.7	2.5	B1/500		
BM (30°-60°)	1060.2	5.7	B2/2500		
BH (60°-80°)	425.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
2.5°	2219.8	2223.6	2221.2	2205.9	2180.6	2166.7	2159.1	2133.7	2117.3	2088.2	2057.8
5°	2423.7	2439.0	2430.1	2399.7	2351.6	2317.4	2307.3	2255.3	2208.5	2154.0	2090.7
7.5°	2640.3	2647.9	2631.5	2592.2	2527.6	2469.3	2460.5	2388.4	2313.6	2230.0	2143.9
10°	2827.8	2836.6	2811.3	2754.3	2680.8	2608.6	2596.0	2516.2	2427.6	2325.0	2214.8
12.5°	2984.8	2993.6	2960.7	2892.3	2811.3	2736.5	2723.8	2640.3	2542.8	2428.8	2292.1
15°	3103.8	3120.2	3075.9	3002.4	2915.1	2840.4	2834.0	2751.7	2656.8	2530.1	2384.5
17.5°	3173.4	3189.9	3148.1	3059.4	2984.8	2921.5	2913.9	2845.5	2756.8	2635.3	2474.5
20°	3184.9	3200.0	3155.7	3078.5	3016.4	2965.7	2961.9	2912.5	2848.0	2731.5	2571.9
22.5°	3150.6	3169.6	3129.1	3067.1	3024.0	2997.4	2992.4	2964.5	2927.8	2829.0	2663.1
25°	3115.2	3130.4	3100.0	3045.6	3022.7	3020.2	3024.0	3018.9	3011.3	2927.8	2769.4
27.5°	3112.6	3129.1	3094.9	3043.0	3030.3	3057.0	3060.8	3084.8	3091.1	3017.7	2872.0
30°	3134.1	3145.6	3112.6	3058.2	3051.8	3112.6	3114.0	3157.0	3167.1	3093.7	2973.3
32.5°	3181.0	3193.7	3160.8	3080.9	3072.1	3157.0	3160.8	3217.8	3234.2	3174.7	3079.7
35°	3291.2	3306.4	3268.4	3144.3	3112.6	3198.7	3210.2	3277.2	3310.2	3260.8	3189.9
37.5°	3566.0	3521.7	3469.7	3272.2	3205.1	3264.6	3283.6	3362.1	3420.3	3363.3	3321.6
40°	4248.5	4109.2	3947.2	3490.0	3367.2	3405.2	3420.3	3498.8	3578.7	3522.9	3502.6
42.5°	5273.0	5108.4	4847.5	3991.5	3611.6	3630.6	3641.9	3710.4	3823.0	3778.8	3783.8
45°	6186.1	6126.5	5860.6	4847.5	4068.7	3975.1	3989.0	4024.5	4190.3	4173.8	4206.8
47.5°	6887.6	6853.4	6648.3	5830.2	4841.2	4396.7	4436.0	4452.4	4691.7	4750.1	4838.6
50°	7427.0	7414.3	7230.8	6704.0	5850.5	5018.5	5032.4	4997.0	5355.3	5499.6	5668.1
52.5°	7936.2	7979.2	7843.7	7515.7	6928.1	5832.8	5830.2	5663.0	6146.8	6364.6	6652.0
55°	8395.8	8410.9	8424.9	8343.9	8012.1	6759.7	6735.6	6462.1	7064.9	7290.3	7601.8
57.5°	8827.6	8834.0	8958.1	9123.9	9140.4	7755.0	7710.7	7382.8	8067.8	8228.6	8419.9
60°	9117.6	9146.7	9408.9	9869.8	10071.1	8782.0	8758.0	8423.7	9088.5	9163.2	9127.7
62.5°	8699.7	8877.0	9538.0	10452.3	10950.0	9920.5	9909.1	9595.0	10162.4	10101.6	9797.7
65°	7042.1	7342.2	8504.7	10846.1	11812.4	11191.9	11208.3	10874.0	11265.3	11067.7	10342.1
67.5°	4926.0	5242.7	6617.8	10877.8	12776.0	12684.9	12779.8	12255.6	12436.6	11993.4	10471.3
70°	3406.5	3569.8	4465.1	10196.5	13527.0	14741.3	14738.9	13952.5	13601.6	12415.1	9812.8
72.5°	2290.8	2375.6	2899.9	8089.3	12974.9	15963.5	15890.0	15249.2	13994.2	11611.0	8017.1
75°	966.2	1028.3	1342.3	4546.2	10264.9	14604.6	14405.9	13476.3	12434.2	9142.9	5002.0
77.5°	306.5	333.0	529.3	1627.3	5654.2	10977.9	10767.6	8416.1	8333.8	4586.7	1828.6
80°	145.7	169.6	297.6	653.4	2225.0	5970.7	5941.6	3818.0	3585.0	1238.5	367.3
82.5°	63.3	74.7	164.6	349.5	995.4	2130.0	2173.0	1299.3	1075.1	469.9	112.7
85°	20.3	26.5	76.0	160.8	420.5	529.3	523.0	308.9	433.1	255.8	39.3
87.5°	0.0	0.0	25.3	36.7	43.0	30.4	34.2	26.5	120.3	70.9	13.9
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°	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5	2032.5
2.5°	2042.6	2022.3	1986.9	1954.0	1924.8	1895.7	1878.0	1852.7	1850.1	1850.1	1856.5
5°	2056.6	2023.6	1960.3	1893.2	1815.9	1742.5	1669.0	1598.1	1575.3	1558.8	1566.4
7.5°	2097.0	2045.1	1945.0	1817.2	1670.3	1509.5	1396.8	1275.2	1228.4	1203.0	1206.8
10°	2155.3	2084.3	1932.4	1708.3	1470.3	1251.1	1090.3	958.6	907.9	886.4	886.4
12.5°	2219.8	2132.5	1909.7	1572.8	1251.1	989.0	832.0	771.2	763.6	763.6	763.6
15°	2297.1	2190.7	1870.4	1413.3	1021.9	782.6	726.8	729.4	737.0	742.1	742.1
17.5°	2376.9	2252.8	1808.3	1234.7	819.3	704.1	705.3	709.2	715.4	720.6	720.6
20°	2463.0	2314.9	1726.0	1044.7	702.8	681.3	685.1	688.9	693.9	696.5	697.7
22.5°	2555.4	2373.1	1628.5	858.5	663.6	662.3	663.6	667.4	673.7	673.7	676.2
25°	2654.2	2437.7	1517.1	723.0	643.3	643.3	645.9	648.3	653.4	653.4	654.7
27.5°	2755.5	2497.2	1399.3	652.2	625.6	624.3	624.3	628.1	630.7	631.9	633.1
30°	2867.0	2566.9	1281.6	636.9	611.6	605.3	601.5	604.0	606.6	607.8	610.4
32.5°	2980.9	2633.9	1176.4	643.3	597.7	586.3	573.7	571.1	571.1	576.2	579.9
35°	3107.6	2707.4	1095.4	664.8	590.1	558.4	538.2	526.7	528.1	535.7	539.5
37.5°	3259.5	2796.1	1035.9	683.8	585.1	526.7	493.8	479.9	471.1	479.9	477.4
40°	3458.4	2926.5	992.8	699.0	578.7	490.1	445.8	422.9	406.5	411.5	409.0
42.5°	3750.9	3131.7	976.3	700.3	564.8	447.0	396.4	365.9	341.9	343.2	338.1
45°	4161.2	3455.8	1061.2	683.8	534.4	400.2	344.4	303.9	288.7	285.0	279.8
47.5°	4723.4	3928.2	1257.5	649.6	490.1	354.5	293.8	259.6	248.2	241.9	238.1
50°	5476.9	4534.7	1475.3	611.6	445.8	311.5	252.0	230.5	222.8	216.6	215.2
52.5°	6350.7	5150.2	1653.8	573.7	401.4	273.6	225.4	212.8	206.4	201.3	200.1
55°	7152.2	5574.4	1643.7	533.1	358.3	243.1	206.4	198.8	191.3	186.1	183.6
57.5°	7651.2	5633.9	1354.9	488.8	308.9	219.0	188.7	183.6	174.8	168.4	167.2
60°	7880.4	5294.5	949.8	430.6	259.6	196.3	169.6	167.2	155.8	146.9	144.3
62.5°	7922.2	4664.0	633.1	358.3	216.6	174.8	150.7	146.9	131.7	116.5	108.9
65°	7752.5	3762.3	438.2	279.8	184.9	152.0	129.1	121.6	105.1	89.9	84.9
67.5°	7215.6	2641.5	305.1	201.3	157.0	120.3	102.6	100.0	87.3	74.7	70.9
70°	6231.6	1505.6	203.9	150.7	124.1	82.3	81.1	83.5	70.9	60.8	55.8
72.5°	4777.8	688.9	126.6	110.2	84.9	55.8	64.6	65.8	54.4	45.6	40.5
75°	2812.5	295.1	79.7	70.9	43.0	36.7	46.8	48.1	36.7	29.1	25.3
77.5°	957.4	111.4	50.6	41.8	21.5	20.3	30.4	30.4	20.3	11.4	8.8
80°	217.8	41.8	25.3	16.5	10.1	8.8	10.1	8.8	5.0	1.2	0.0
82.5°	62.0	16.5	10.1	6.4	3.8	3.8	1.2	0.0	0.0	0.0	0.0
85°	17.7	7.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	1.2	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)