

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: P883408

Luminaire Tested: **NVN-SB3D-727-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3D-727-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

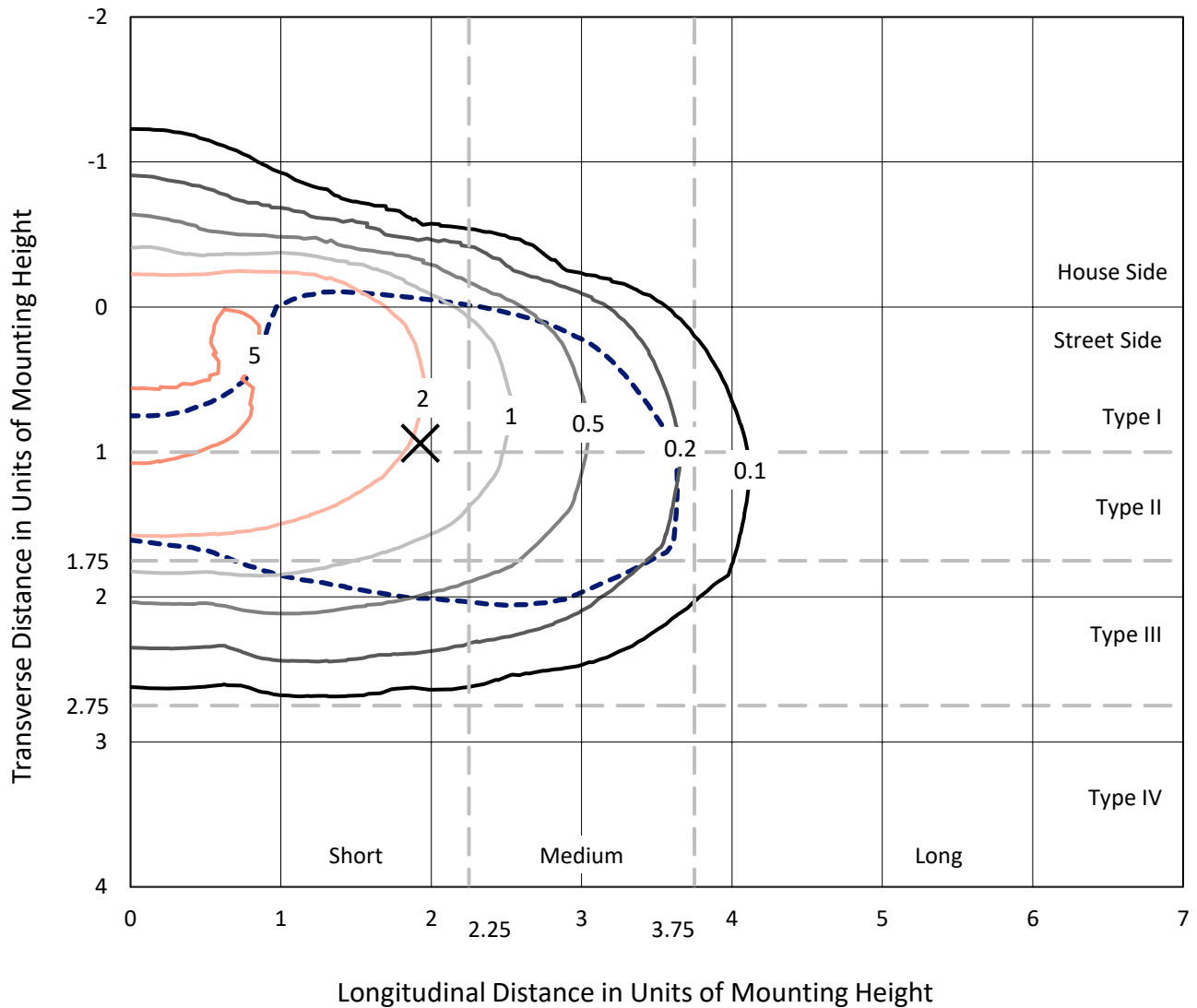
Lumens per Lamp: N/A  
Luminaire Lumens: 21694 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): 120.0  
Input Current (Ain): 1.84  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

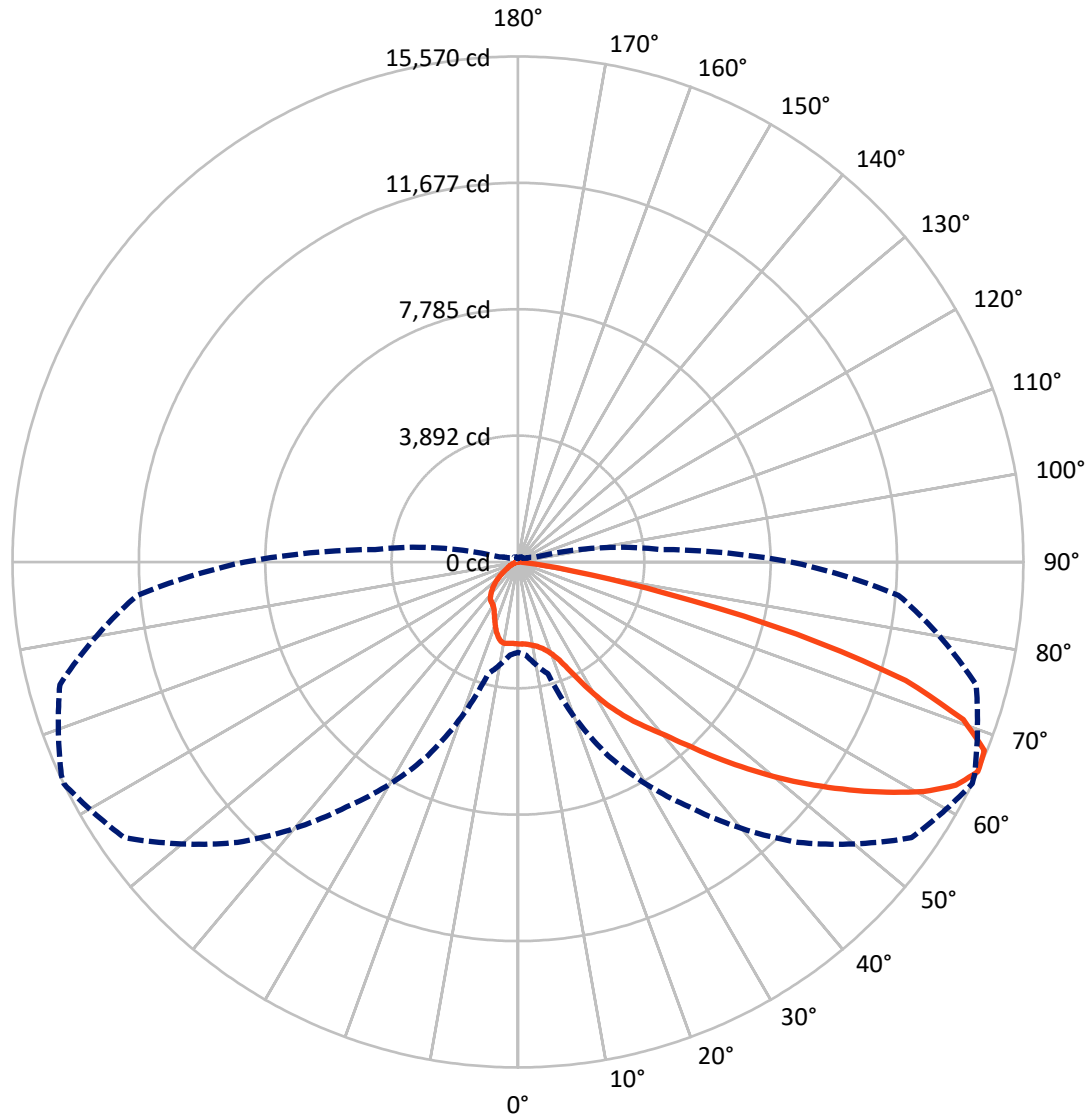
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2901.2	0.0	2901.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	18792.9	0.0	18792.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	21694.0	0.0	21694.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.8	1.1
10°-20°	631.4	2.9
20°-30°	1196.5	5.5
30°-40°	2421.1	11.2
40°-50°	4124.3	19.0
50°-60°	5608.7	25.9
60°-70°	5266.9	24.3
70°-80°	2110.1	9.7
80°-90°	102.2	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°	21694.0	100.0
0°-180°	21694.0	100.0

**Coefficient of Utilization**



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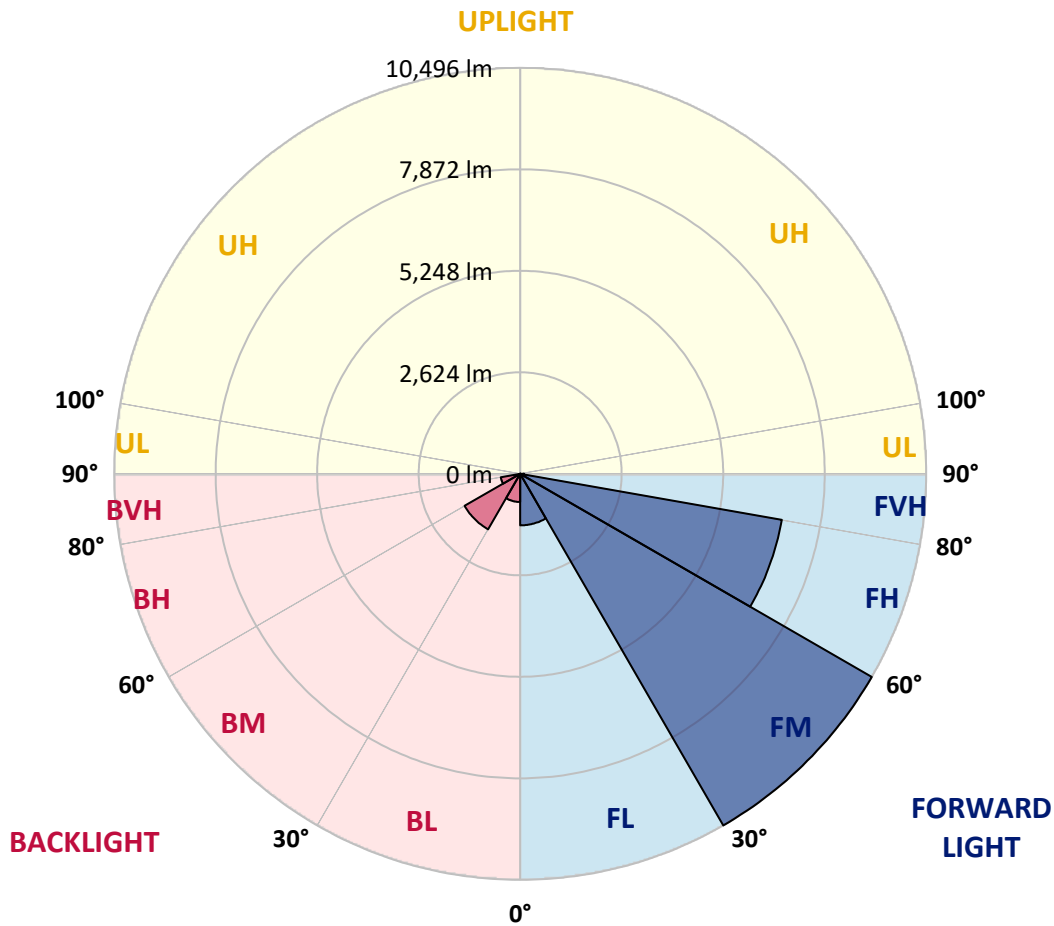
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.3	6.1			
FM (30°-60°)	10495.5	48.4			
FH (60°-80°)	6867.8	31.7			G3/7500
FVH (80°-90°)	97.2	0.4			G1/100
BL (0°-30°)	728.4	3.4	B2/1000		
BM (30°-60°)	1658.6	7.6	B2/2500		
BH (60°-80°)	509.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.0	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2.5°	2514.5	2532.0	2527.6	2523.2	2521.8	2524.7	2526.1	2524.7	2524.7	2524.7	2526.1
5°	2466.5	2481.1	2481.1	2491.2	2505.8	2523.2	2536.3	2539.2	2542.1	2546.5	2545.1
7.5°	2374.9	2386.5	2395.3	2428.7	2465.1	2511.6	2550.9	2571.2	2574.1	2590.1	2596.0
10°	2312.4	2326.9	2341.4	2376.4	2428.7	2498.5	2565.4	2614.9	2622.1	2659.9	2677.4
12.5°	2309.5	2324.0	2342.9	2380.7	2441.8	2516.0	2597.4	2668.7	2681.8	2737.0	2773.4
15°	2340.0	2357.4	2374.9	2421.4	2486.9	2577.0	2664.3	2753.0	2766.1	2844.6	2883.9
17.5°	2402.5	2425.8	2438.9	2485.4	2555.2	2655.6	2770.5	2872.3	2883.9	2975.5	3025.0
20°	2526.1	2553.8	2558.1	2596.0	2664.3	2771.9	2908.6	3035.2	3049.7	3154.4	3209.7
22.5°	2782.1	2821.4	2786.5	2805.4	2866.5	2974.1	3122.4	3282.4	3302.8	3422.0	3471.5
25°	3232.9	3288.2	3198.0	3166.0	3192.2	3304.2	3490.4	3692.5	3715.8	3811.8	3836.5
27.5°	4118.6	4047.4	3910.7	3776.9	3698.3	3762.3	3971.7	4221.9	4251.0	4344.0	4315.0
30°	5091.6	5029.0	4844.3	4547.6	4361.5	4351.3	4544.7	4824.0	4857.4	4946.1	4857.4
32.5°	6066.0	6006.3	5805.6	5440.6	5117.7	4957.8	5091.6	5401.3	5418.8	5475.5	5344.6
35°	7024.3	6963.3	6762.6	6388.8	5991.8	5628.2	5602.0	5951.1	5956.9	6016.5	5821.6
37.5°	7988.6	7937.7	7723.9	7357.4	6966.2	6464.4	6221.6	6471.7	6479.0	6537.1	6335.0
40°	8676.4	8698.3	8551.4	8267.8	7931.8	7383.6	6916.7	7025.8	6982.2	7079.6	6958.9
42.5°	9266.9	9310.5	9182.5	9040.0	8845.1	8362.3	7777.7	7758.8	7689.0	7741.3	7616.3
45°	9777.4	9813.7	9698.8	9665.4	9661.0	9322.2	8718.6	8605.2	8507.7	8497.6	8347.8
47.5°	9965.0	10034.8	10084.2	10196.2	10414.4	10271.8	9691.6	9515.6	9406.5	9326.5	9089.5
50°	10036.2	10110.4	10279.1	10604.9	11121.2	11182.2	10660.1	10462.3	10328.5	10183.1	9834.1
52.5°	9940.2	10072.6	10299.5	10847.7	11596.7	11912.3	11589.4	11416.4	11263.7	11026.6	10508.9
55°	9374.5	9506.9	9970.8	10844.8	11833.8	12424.2	12467.8	12390.8	12219.2	11845.4	11054.3
57.5°	8182.0	8378.3	9112.7	10475.4	11829.4	12864.9	13328.8	13384.1	13192.1	12656.9	11483.3
60°	6529.9	6796.0	7691.9	9656.7	11464.4	13103.4	14083.6	14359.9	14156.3	13456.8	11830.9
62.5°	4556.4	4864.7	5712.6	8373.9	10629.6	12931.8	14634.8	15145.2	14991.1	14172.3	11964.7
65°	2779.2	2878.1	3561.6	6589.5	9210.2	12213.3	14804.9	15569.9	15519.0	14610.1	11766.9
67.5°	1851.3	1934.2	2130.6	4518.6	7149.4	10777.9	14397.7	15495.7	15510.3	14538.8	11042.6
70°	1115.5	1186.7	1314.7	2627.9	4633.4	8531.0	13136.8	14550.4	14634.8	13586.2	9669.7
72.5°	459.6	507.6	623.9	1191.1	2399.6	5414.4	10460.9	12492.6	12688.9	11423.6	7421.4
75°	260.3	285.0	366.5	597.7	1041.3	2523.2	6336.5	8868.4	9157.8	7873.7	4464.7
77.5°	173.1	184.7	237.1	386.8	586.1	861.0	2707.9	4620.4	5173.0	4300.4	1932.8
80°	116.3	126.5	162.9	258.9	381.0	369.4	862.4	1711.7	2105.8	1477.6	471.2
82.5°	78.5	80.0	116.3	170.2	241.4	178.9	254.5	532.3	669.0	427.6	178.9
85°	45.1	43.6	85.8	98.9	107.6	74.2	77.1	160.0	209.4	180.3	101.8
87.5°	5.8	8.7	33.4	26.2	14.5	16.0	16.0	27.6	40.7	43.6	21.8
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°	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2	2523.2
2.5°	2526.1	2524.7	2520.3	2516.0	2505.8	2500.0	2502.9	2500.0	2498.5	2500.0	2505.8
5°	2545.1	2540.7	2529.1	2514.5	2494.2	2469.4	2453.4	2430.2	2408.3	2395.3	2398.2
7.5°	2596.0	2591.6	2575.6	2534.9	2469.4	2366.2	2271.6	2188.7	2126.2	2089.9	2091.3
10°	2677.4	2670.1	2645.4	2555.2	2383.6	2158.2	1970.6	1815.0	1713.2	1665.2	1660.8
12.5°	2773.4	2764.7	2721.0	2536.3	2220.7	1868.8	1609.9	1436.9	1342.3	1300.2	1295.8
15°	2886.8	2875.2	2789.4	2446.2	1983.7	1548.8	1311.8	1182.4	1121.3	1083.5	1084.9
17.5°	3027.9	3007.5	2840.3	2310.9	1726.3	1304.5	1128.5	1031.1	977.3	940.9	938.0
20°	3211.1	3177.7	2881.0	2149.5	1489.2	1150.4	1004.9	923.5	882.8	850.8	845.0
22.5°	3467.1	3419.1	2930.4	1975.0	1322.0	1044.2	913.3	853.7	820.2	783.9	778.1
25°	3784.1	3727.4	2991.5	1813.5	1207.1	952.6	846.4	797.0	757.7	715.5	711.2
27.5°	4227.7	4125.9	3064.2	1681.2	1108.2	874.0	785.3	730.1	685.0	650.1	642.8
30°	4722.2	4554.9	3128.2	1601.2	1018.0	801.3	705.3	650.1	607.9	583.2	578.8
32.5°	5190.5	4963.6	3170.4	1566.3	936.6	718.4	618.1	558.5	526.5	519.2	523.6
35°	5632.6	5333.0	3166.0	1532.8	863.9	635.5	532.3	471.2	446.5	450.8	450.8
37.5°	6141.6	5727.1	3135.5	1480.5	804.2	559.9	458.1	404.3	382.5	383.9	389.8
40°	6733.5	6182.3	3116.6	1381.6	738.8	490.1	397.0	353.4	337.4	331.6	330.1
42.5°	7364.7	6623.0	3119.5	1269.6	657.4	427.6	354.9	318.5	304.0	299.6	298.1
45°	7998.7	7043.3	3123.9	1153.3	571.5	379.6	324.3	293.8	285.0	279.2	279.2
47.5°	8595.0	7401.0	3042.4	1028.2	487.2	343.2	299.6	279.2	272.0	264.7	264.7
50°	9150.6	7639.5	2846.1	882.8	420.3	314.1	280.7	266.1	258.9	251.6	251.6
52.5°	9582.5	7677.3	2521.8	733.0	373.8	292.3	269.0	256.0	247.2	240.0	238.5
55°	9774.5	7440.3	2060.8	593.4	337.4	273.4	257.4	244.3	234.1	226.9	225.4
57.5°	9725.0	6941.4	1607.0	477.0	302.5	254.5	242.9	234.1	222.5	210.9	209.4
60°	9482.1	6273.9	1211.4	397.0	270.5	234.1	226.9	219.6	203.6	186.2	183.2
62.5°	9061.8	5434.8	863.9	328.7	235.6	210.9	208.0	202.1	178.9	146.9	144.0
65°	8419.0	4415.3	581.7	273.4	202.1	184.7	186.2	176.0	145.4	109.1	106.2
67.5°	7479.5	3228.6	372.3	224.0	168.7	154.2	155.6	149.8	123.6	93.1	88.7
70°	6282.6	2137.8	242.9	170.2	135.3	119.3	128.0	129.4	104.7	75.6	72.7
72.5°	4605.8	1262.3	170.2	126.5	98.9	82.9	104.7	107.6	84.4	56.7	53.8
75°	2625.0	599.2	128.0	91.6	61.1	58.2	81.4	81.4	58.2	37.8	34.9
77.5°	1102.4	250.1	90.2	59.6	34.9	33.4	55.3	50.9	29.1	17.5	17.5
80°	318.5	112.0	48.0	29.1	14.5	13.1	21.8	16.0	7.3	2.9	2.9
82.5°	125.1	49.4	18.9	11.6	5.8	5.8	2.9	0.0	0.0	0.0	0.0
85°	74.2	20.4	8.7	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	4.4	2.9	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)