

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: P964698

Luminaire Tested: **NVN-SB3C-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3C-827-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

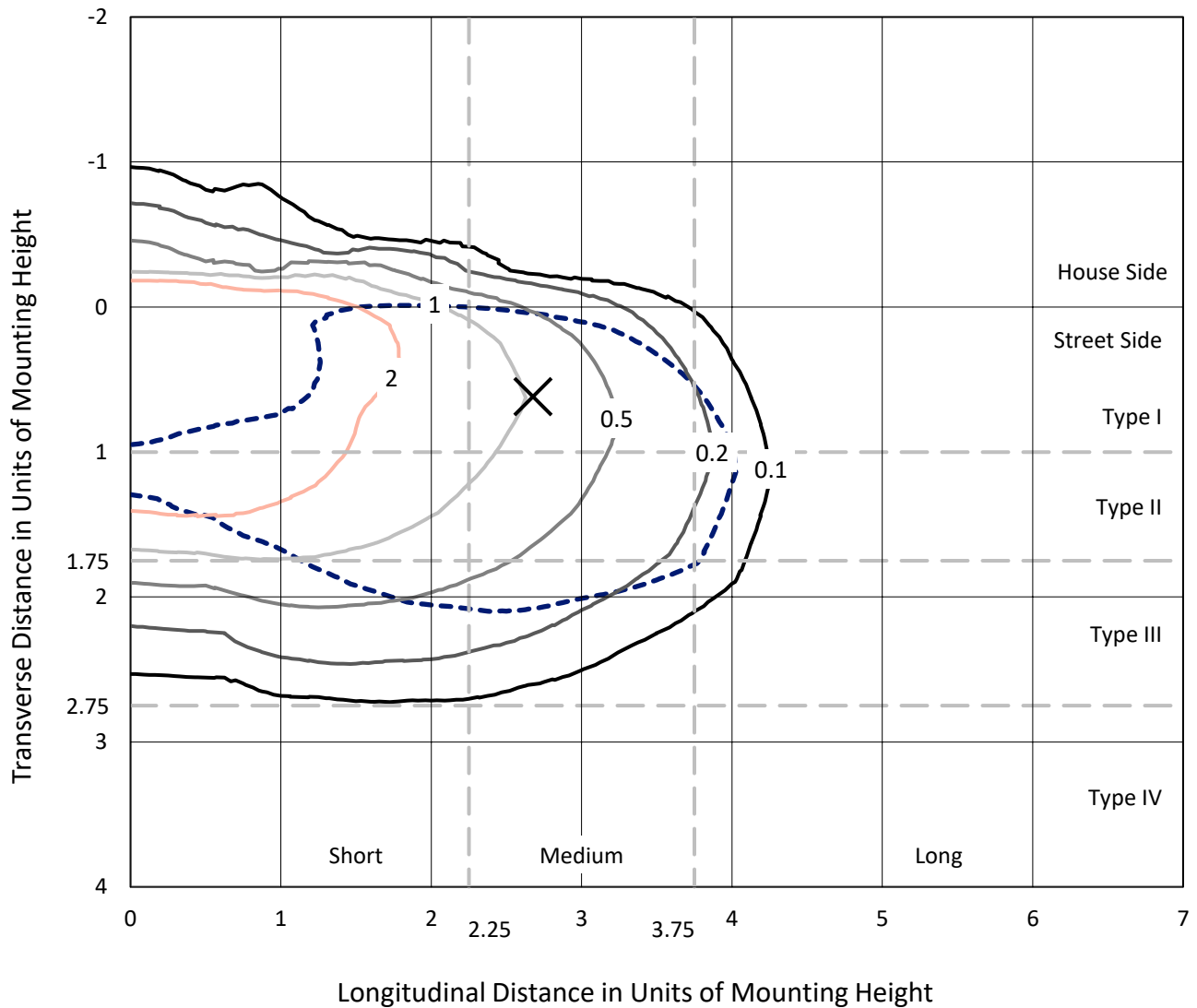
Lumens per Lamp: N/A  
Luminaire Lumens: 16673.7 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): 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

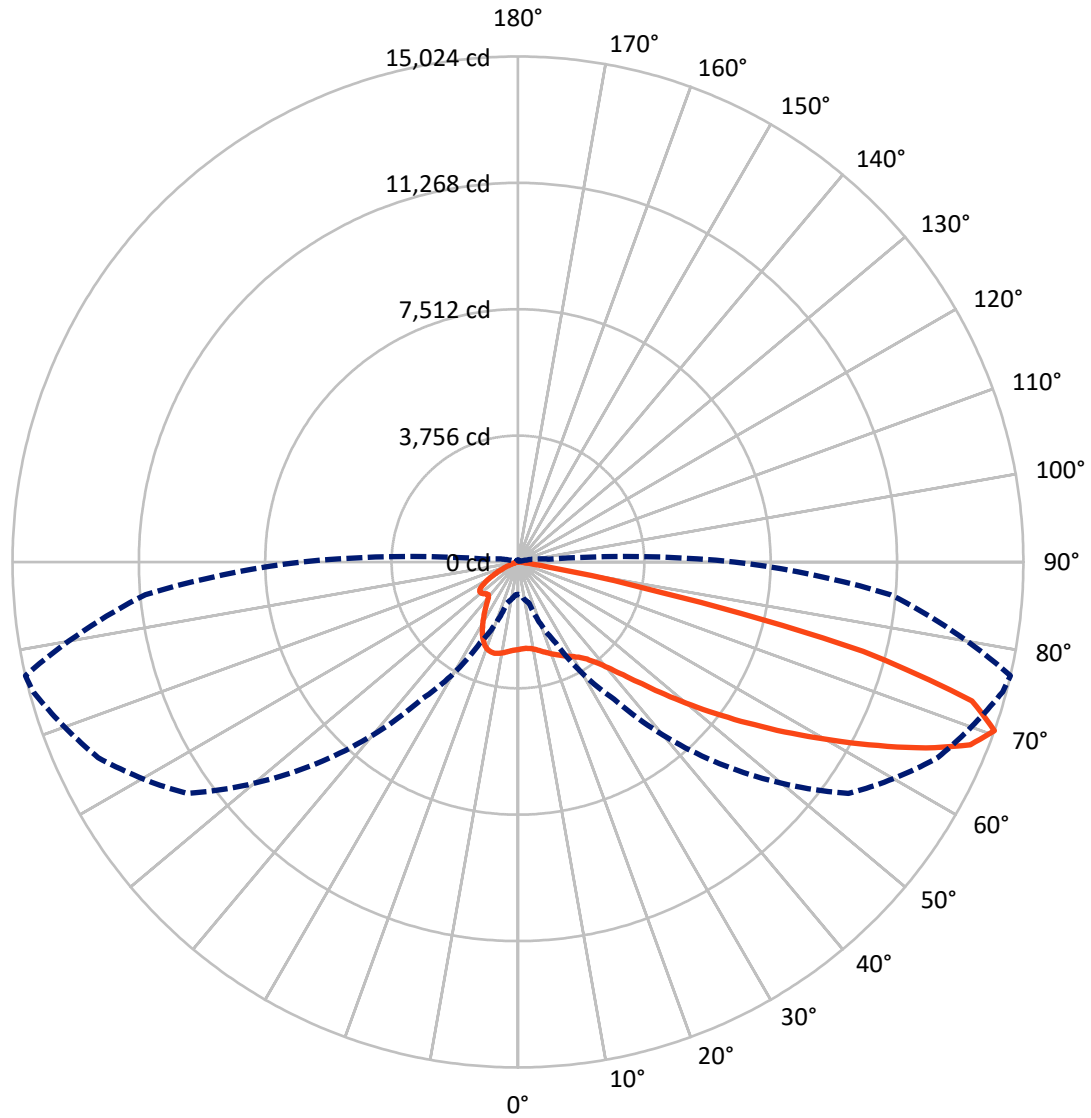
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1757.6	0.0	1757.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14916.0	0.0	14916.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16673.7	0.0	16673.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.1	1.3
10°-20°	532.1	3.2
20°-30°	823.0	4.9
30°-40°	1493.4	9.0
40°-50°	2819.0	16.9
50°-60°	4073.2	24.4
60°-70°	4335.8	26.0
70°-80°	2297.7	13.8
80°-90°	75.4	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°	16673.7	100.0
0°-180°	16673.7	100.0

**Coefficient of Utilization**



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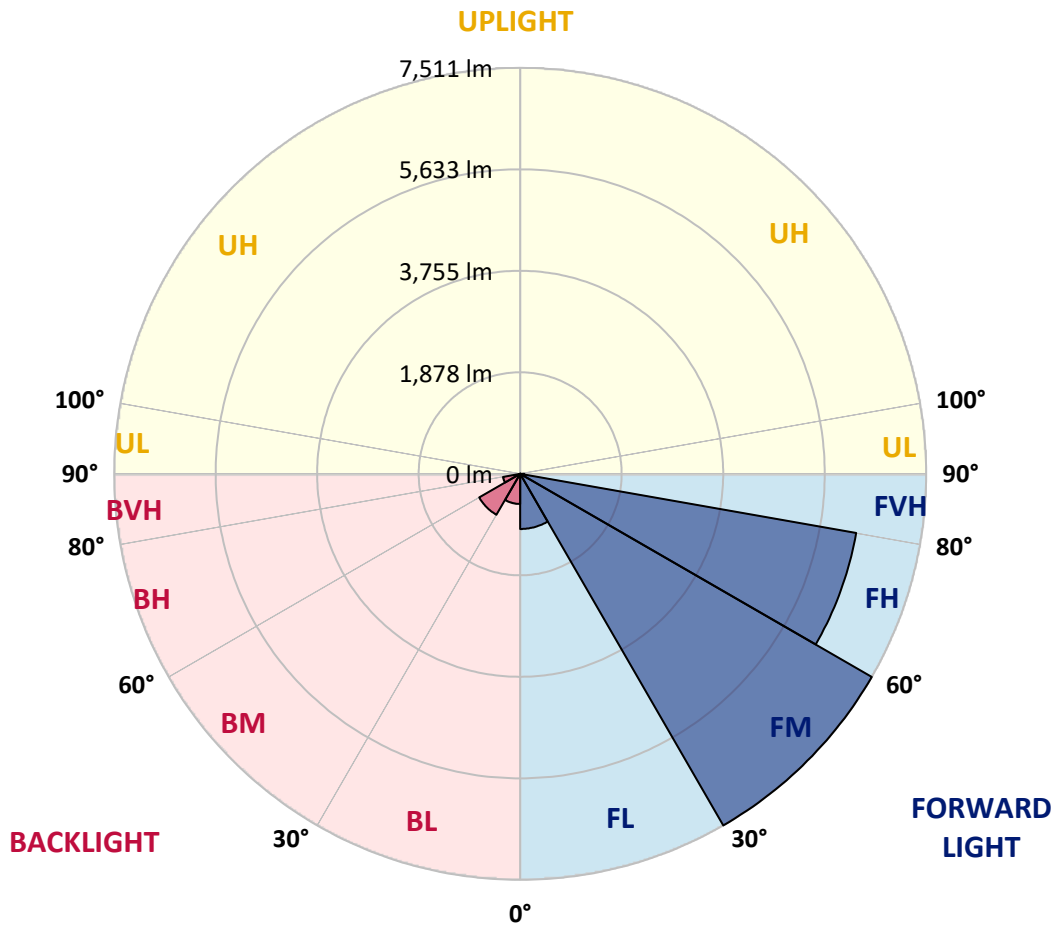
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.8	6.1			
FM (30°-60°)	7510.6	45.0			
FH (60°-80°)	6311.2	37.9			G3/7500
FVH (80°-90°)	73.4	0.4			G1/100
BL (0°-30°)	558.4	3.3	B2/1000		
BM (30°-60°)	875.0	5.2	B1/1000		
BH (60°-80°)	322.2	1.9	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: B2-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8
2.5°	2441.8	2463.9	2460.7	2475.5	2480.7	2501.8	2522.8	2551.3	2582.9	2581.9	2602.9
5°	2303.9	2325.9	2331.3	2351.2	2376.5	2409.2	2452.3	2509.2	2568.1	2577.7	2619.7
7.5°	2140.6	2163.8	2177.5	2217.5	2263.8	2331.3	2401.8	2485.0	2582.9	2596.5	2677.6
10°	1977.4	1998.5	2016.4	2073.3	2147.0	2247.0	2361.8	2481.8	2613.4	2633.4	2748.2
12.5°	1876.4	1896.4	1916.3	1965.8	2057.5	2179.6	2335.5	2496.6	2664.0	2692.4	2844.1
15°	1840.6	1858.4	1874.2	1918.5	2003.8	2142.8	2330.1	2527.0	2728.2	2766.1	2959.9
17.5°	1845.8	1855.4	1865.8	1899.5	1982.8	2126.0	2339.7	2579.7	2804.0	2837.7	3075.7
20°	1876.4	1881.6	1882.7	1905.9	1979.6	2123.8	2358.6	2630.3	2875.6	2920.8	3190.4
22.5°	1915.3	1917.5	1915.3	1931.1	1999.6	2139.6	2383.8	2691.3	2955.6	2997.7	3306.2
25°	2097.5	2057.5	2007.0	1976.4	2033.3	2170.1	2421.8	2773.4	3043.0	3084.1	3418.9
27.5°	2663.0	2548.1	2367.0	2163.8	2102.8	2214.3	2474.5	2856.7	3131.5	3168.4	3540.0
30°	3581.0	3430.5	3123.1	2665.0	2325.9	2307.0	2542.9	2939.8	3225.2	3265.2	3669.5
32.5°	4501.4	4464.5	4109.6	3475.8	2828.2	2513.4	2656.6	3052.6	3349.4	3381.1	3844.4
35°	5432.2	5357.5	5066.8	4440.3	3602.2	2933.5	2846.1	3199.9	3512.7	3548.4	4099.2
37.5°	6145.1	6099.8	5919.7	5403.8	4520.4	3582.2	3170.4	3428.4	3749.6	3789.5	4425.5
40°	6774.7	6753.6	6692.5	6352.4	5547.0	4430.9	3674.8	3782.2	4078.1	4125.4	4825.7
42.5°	7269.6	7319.1	7353.9	7259.0	6605.2	5399.5	4352.9	4279.2	4536.1	4584.5	5335.3
45°	7776.1	7792.9	7933.0	8069.8	7656.0	6412.5	5117.3	4861.5	5105.7	5165.8	5946.0
47.5°	8101.4	8168.8	8415.1	8656.3	8539.5	7417.0	5938.6	5549.0	5765.9	5878.7	6630.4
50°	8125.6	8253.0	8592.1	9012.2	9182.8	8373.1	6831.5	6332.4	6563.1	6687.3	7361.1
52.5°	7722.4	7920.3	8445.7	9060.7	9530.2	9182.8	7754.9	7115.9	7411.8	7573.9	8119.3
55°	5920.7	6179.8	7895.1	8797.4	9544.0	9796.6	8654.2	7931.9	8357.2	8540.5	8938.5
57.5°	5158.4	5289.0	6207.2	8340.4	9290.2	10044.1	9467.1	8709.0	9386.0	9613.5	9712.4
60°	4291.9	4463.5	5205.8	7592.8	8945.9	10068.4	10185.2	9711.4	10501.1	10757.0	10422.1
62.5°	2916.6	3103.1	3841.2	6308.3	8475.2	10056.8	10773.8	10743.2	11740.5	12015.3	11023.4
65°	1806.9	1923.7	2410.2	5151.0	7817.2	10069.4	11389.8	11996.3	13048.1	13327.3	11488.7
67.5°	1427.8	1481.5	1735.2	3954.9	6683.1	9785.1	12004.7	13174.5	14279.1	14500.2	11630.9
70°	959.2	991.9	1262.5	2651.4	4972.1	8473.1	11993.1	13766.3	14912.9	15023.5	11112.8
72.5°	505.4	530.6	738.1	1227.7	3003.0	6022.9	10109.4	13058.7	14282.2	14115.9	9498.7
75°	252.7	294.8	497.0	623.3	1282.5	3358.9	6277.7	10295.8	11241.3	10597.0	6094.4
77.5°	191.7	231.6	410.6	410.6	446.5	1130.9	2658.7	5615.4	5179.4	4312.9	1788.9
80°	122.2	158.0	359.1	310.6	186.3	287.4	692.8	1573.1	1100.3	837.1	325.3
82.5°	71.6	103.2	299.0	205.3	104.2	106.4	195.9	334.9	285.4	222.2	100.0
85°	28.4	67.3	205.3	81.1	41.1	26.3	58.9	71.6	58.9	44.2	25.3
87.5°	0.0	15.8	35.8	0.0	3.2	2.2	4.2	5.2	5.2	4.2	8.4
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°	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8	2600.8
2.5°	2612.4	2614.5	2620.8	2621.8	2607.1	2588.1	2580.7	2577.7	2565.0	2563.9	2566.1
5°	2644.0	2653.4	2644.0	2616.6	2551.3	2459.7	2390.2	2333.3	2281.8	2266.0	2256.4
7.5°	2707.1	2716.7	2688.2	2580.7	2416.5	2234.4	2070.1	1954.3	1850.0	1811.1	1795.3
10°	2797.7	2810.3	2720.9	2503.9	2213.3	1920.5	1642.6	1446.8	1294.1	1231.9	1205.6
12.5°	2911.4	2916.6	2738.7	2387.0	1949.0	1531.0	1137.2	927.6	791.8	741.3	725.5
15°	3036.7	3029.4	2740.8	2228.0	1589.0	1082.4	742.3	609.7	554.9	538.0	538.0
17.5°	3168.4	3137.8	2698.7	1998.5	1194.0	740.3	550.7	519.1	509.6	505.4	504.4
20°	3297.8	3229.4	2621.8	1698.4	857.1	552.8	500.2	490.7	485.4	483.3	481.2
22.5°	3415.8	3298.9	2490.2	1349.9	622.3	488.6	472.7	464.3	454.9	450.7	449.6
25°	3530.5	3338.9	2304.9	1024.5	498.0	456.9	444.3	428.6	415.9	410.6	408.6
27.5°	3642.1	3364.2	2073.3	758.1	444.3	427.5	404.4	382.2	372.8	370.6	368.5
30°	3761.1	3372.6	1810.0	565.4	411.7	390.6	356.9	331.7	326.5	327.5	327.5
32.5°	3906.5	3385.3	1544.7	463.3	384.4	346.4	306.4	280.1	275.8	280.1	279.0
35°	4080.2	3410.5	1288.8	426.4	360.1	301.1	258.0	235.9	231.6	234.8	233.8
37.5°	4316.1	3451.6	1049.8	419.1	340.1	263.2	216.9	199.1	199.1	200.1	199.1
40°	4629.8	3561.1	836.1	413.8	329.5	234.8	183.2	175.9	179.0	181.1	181.1
42.5°	5012.0	3793.8	691.8	407.5	318.0	222.2	166.4	163.2	168.5	170.6	170.6
45°	5440.6	4088.6	641.2	397.0	307.5	230.6	159.0	154.8	161.1	162.2	163.2
47.5°	5883.9	4377.2	634.9	385.4	296.9	243.2	156.9	147.4	154.8	155.8	156.9
50°	6332.4	4565.6	641.2	367.5	280.1	243.2	158.0	140.0	146.4	149.5	150.6
52.5°	6784.2	4652.0	637.0	328.5	250.6	228.5	158.0	133.8	140.0	142.2	142.2
55°	7222.2	4635.0	572.8	270.6	212.7	202.1	153.8	128.4	132.6	133.8	133.8
57.5°	7568.6	4400.3	453.9	210.6	172.7	168.5	140.0	122.2	125.3	124.2	124.2
60°	7749.7	3884.3	324.3	162.2	135.8	132.6	123.2	113.7	115.8	110.6	109.5
62.5°	7751.9	3202.0	216.9	128.4	108.4	105.3	105.3	102.1	100.0	89.5	86.3
65°	7586.5	2444.9	144.2	102.1	87.4	82.1	88.5	87.4	80.1	65.3	63.1
67.5°	7211.7	1602.6	109.5	80.1	67.3	64.3	70.5	73.7	68.5	54.7	53.7
70°	6440.9	933.0	90.5	62.1	50.5	47.4	56.9	63.1	56.9	44.2	42.1
72.5°	5350.1	503.3	73.7	46.3	34.7	31.6	45.3	51.6	45.3	32.6	31.6
75°	3471.6	269.6	56.9	30.5	17.9	20.0	33.7	37.9	31.6	21.0	19.0
77.5°	1165.6	119.0	35.8	14.8	8.4	8.4	20.0	23.2	14.8	7.4	6.4
80°	260.0	49.5	14.8	6.4	3.2	3.2	4.2	4.2	2.2	0.0	0.0
82.5°	85.3	20.0	6.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.6	7.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	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)