

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: P969968

Luminaire Tested: **NVN-SB6A-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969968  
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-SB6A-827-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

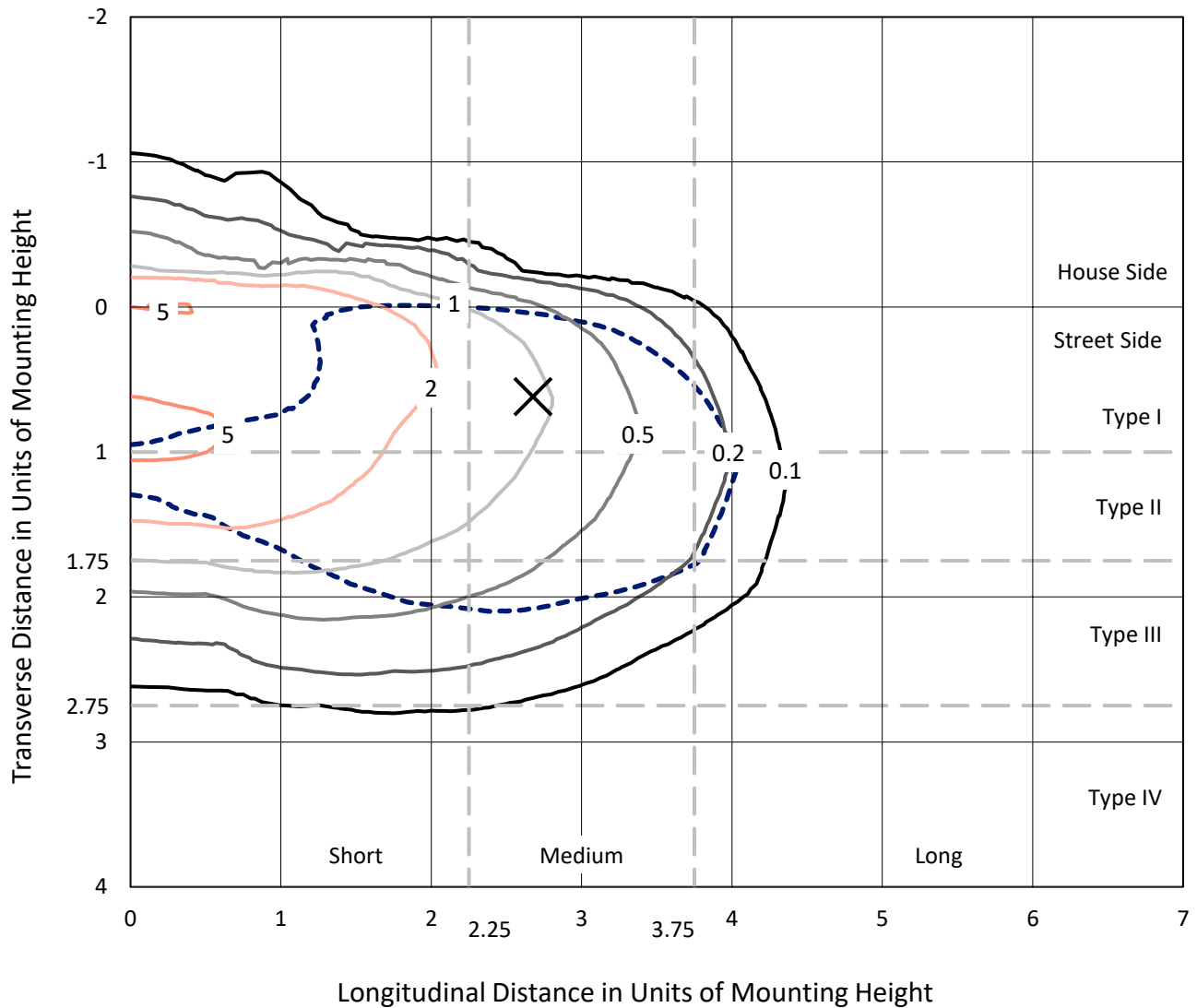
Lumens per Lamp: N/A  
Luminaire Lumens: 20185.3 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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: P969968  
 CATALOG NUMBER: NVN-SB6A-827-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

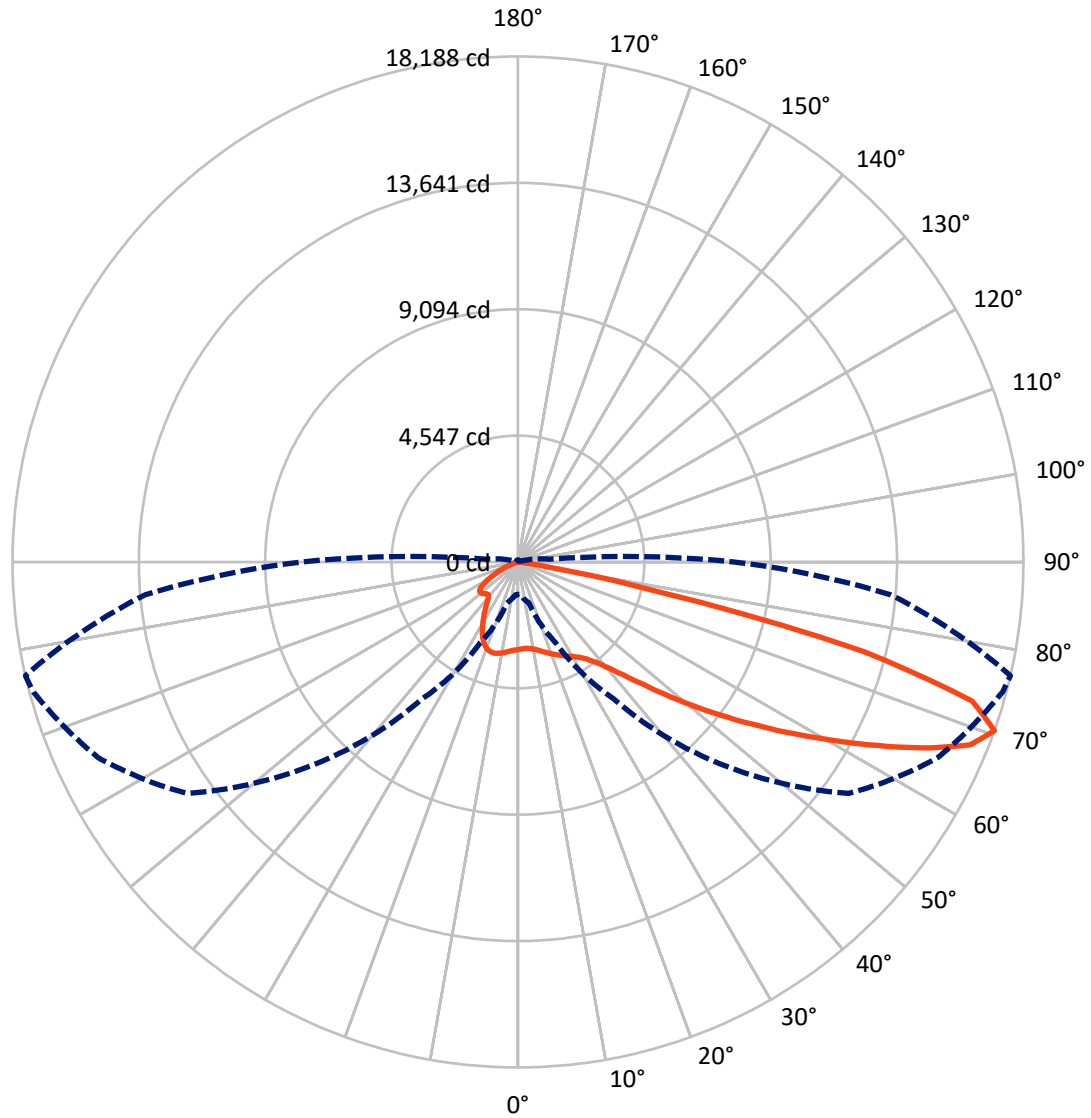
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P969968  
CATALOG NUMBER: NVN-SB6A-827-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P969968  
 CATALOG NUMBER: NVN-SB6A-827-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2127.8	0.0	2127.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	18057.5	0.0	18057.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	20185.3	0.0	20185.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	1.3
10°-20°	644.2	3.2
20°-30°	996.3	4.9
30°-40°	1807.9	9.0
40°-50°	3412.7	16.9
50°-60°	4931.0	24.4
60°-70°	5248.9	26.0
70°-80°	2781.6	13.8
80°-90°	91.3	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°	20185.3	100.0
0°-180°	20185.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P969968

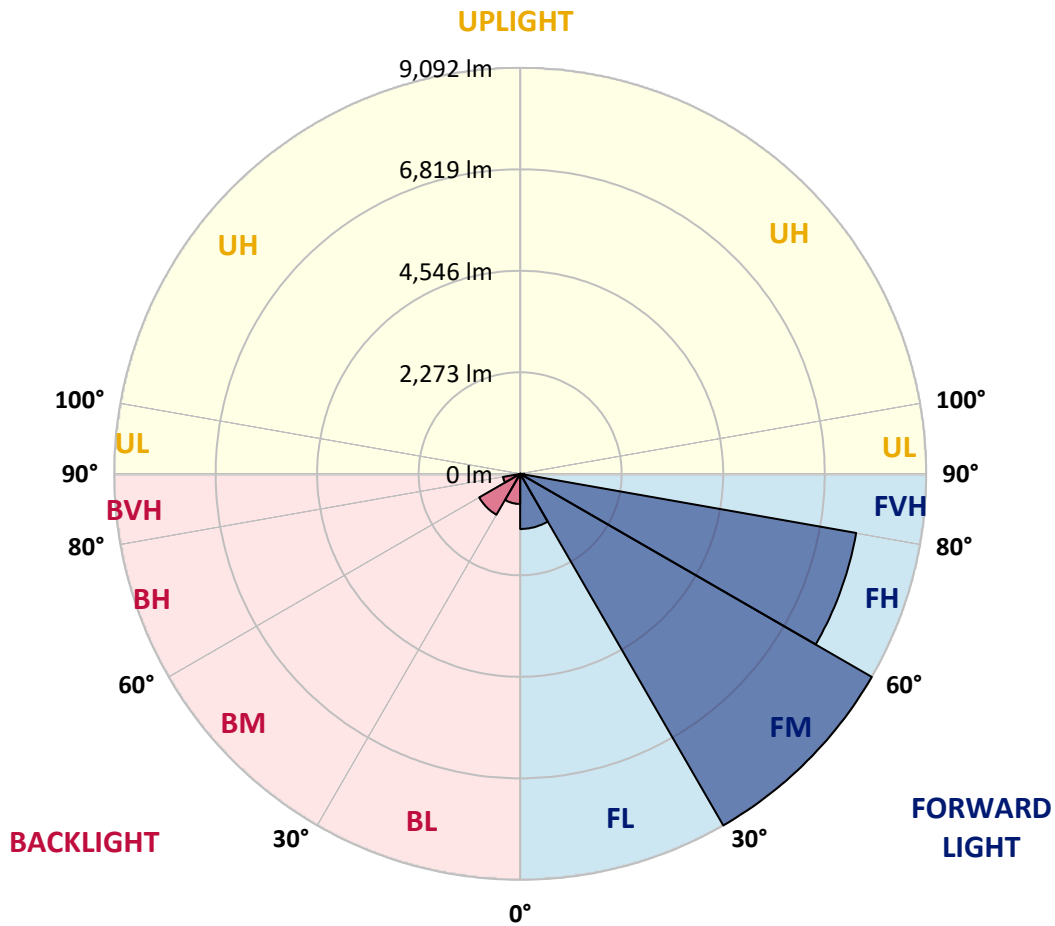
CATALOG NUMBER: NVN-SB6A-827-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.8	6.1			
FM (30°-60°)	9092.4	45.0			
FH (60°-80°)	7640.4	37.9			G4/12000
FVH (80°-90°)	88.9	0.4			G1/100
BL (0°-30°)	676.0	3.3	B2/1000		
BM (30°-60°)	1059.2	5.2	B2/2500		
BH (60°-80°)	390.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	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 III Medium



REPORT NUMBER: P969968  
 CATALOG NUMBER: NVN-SB6A-827-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6
2.5°	2956.1	2982.9	2979.1	2996.9	3003.2	3028.8	3054.2	3088.6	3126.9	3125.6	3151.1
5°	2789.1	2815.9	2822.2	2846.4	2877.1	2916.5	2968.8	3037.7	3109.0	3120.5	3171.5
7.5°	2591.5	2619.5	2636.1	2684.6	2740.6	2822.2	2907.6	3008.4	3126.9	3143.5	3241.6
10°	2393.9	2419.4	2441.0	2509.9	2599.2	2720.2	2859.1	3004.5	3163.9	3188.1	3327.0
12.5°	2271.5	2295.8	2320.0	2379.8	2490.8	2638.7	2827.4	3022.3	3225.1	3259.4	3443.0
15°	2228.2	2249.9	2269.0	2322.5	2425.8	2594.1	2820.9	3059.3	3302.8	3348.7	3583.2
17.5°	2234.6	2246.1	2258.8	2299.6	2400.2	2573.7	2832.4	3123.1	3394.6	3435.4	3723.4
20°	2271.5	2278.0	2279.2	2307.3	2396.4	2571.1	2855.3	3184.3	3481.2	3536.0	3862.4
22.5°	2318.8	2321.2	2318.8	2337.8	2420.6	2590.2	2886.0	3258.2	3578.2	3629.1	4002.6
25°	2539.2	2490.8	2429.6	2392.7	2461.4	2627.2	2931.8	3357.6	3684.0	3733.7	4139.0
27.5°	3223.7	3084.8	2865.6	2619.5	2545.6	2680.7	2995.6	3458.4	3791.0	3835.7	4285.6
30°	4335.3	4153.0	3780.8	3226.3	2815.9	2792.9	3078.5	3559.0	3904.4	3952.9	4442.3
32.5°	5449.4	5404.8	4975.2	4207.8	3423.9	3042.7	3216.1	3695.4	4054.9	4093.1	4654.0
35°	6576.3	6485.8	6133.9	5375.5	4360.8	3551.3	3445.5	3873.9	4252.4	4295.8	4962.4
37.5°	7439.2	7384.4	7166.5	6541.9	5472.4	4336.6	3838.2	4150.4	4539.2	4587.7	5357.7
40°	8201.5	8176.0	8102.1	7690.4	6715.2	5364.0	4448.7	4578.8	4937.0	4994.3	5842.0
42.5°	8800.6	8860.5	8902.6	8787.8	7996.3	6536.7	5269.6	5180.5	5491.4	5550.1	6458.9
45°	9413.8	9434.2	9603.7	9769.4	9268.5	7763.0	6195.1	5885.3	6181.1	6253.7	7198.3
47.5°	9807.6	9889.2	10187.5	10479.4	10337.9	8979.1	7189.4	6717.7	6980.4	7116.8	8026.9
50°	9836.9	9991.2	10401.7	10910.3	11116.7	10136.5	8270.3	7666.2	7945.3	8095.8	8911.6
52.5°	9348.7	9588.4	10224.5	10968.9	11537.4	11116.7	9388.3	8614.5	8972.7	9169.0	9829.3
55°	7167.7	7481.3	9557.8	10650.3	11554.0	11860.0	10476.8	9602.4	10117.4	10339.2	10821.0
57.5°	6244.8	6402.9	7514.5	10097.0	11246.8	12159.5	11460.9	10543.2	11362.8	11638.2	11758.0
60°	5195.7	5403.5	6302.2	9192.0	10829.9	12188.8	12330.3	11756.6	12712.8	13022.5	12617.1
62.5°	3530.9	3756.6	4650.1	7636.9	10260.1	12174.8	13042.9	13005.9	14213.1	14545.8	13345.0
65°	2187.5	2328.9	2917.9	6235.9	9463.5	12190.1	13788.6	14522.8	15796.3	16134.1	13908.4
67.5°	1728.6	1793.5	2100.7	4787.9	8090.6	11845.9	14533.1	15949.2	17286.4	17554.1	14080.5
70°	1161.2	1200.8	1528.4	3209.7	6019.2	10257.6	14519.0	16665.6	18053.8	18187.6	13453.3
72.5°	611.8	642.5	893.6	1486.4	3635.5	7291.3	12238.5	15809.0	17290.2	17088.8	11499.2
75°	306.0	356.9	601.7	754.6	1552.6	4066.4	7599.9	12464.2	13608.8	12828.7	7378.1
77.5°	232.0	280.4	497.1	497.1	540.5	1369.1	3218.7	6798.0	6270.3	5221.2	2165.7
80°	147.9	191.2	434.7	376.1	225.6	348.0	838.8	1904.4	1332.1	1013.4	393.9
82.5°	86.7	124.9	362.0	248.6	126.2	128.7	237.1	405.4	345.4	269.0	121.1
85°	34.4	81.6	248.6	98.2	49.7	31.9	71.3	86.7	71.3	53.5	30.5
87.5°	0.0	19.2	43.4	0.0	3.8	2.6	5.1	6.4	6.4	5.1	10.1
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: P969968  
 CATALOG NUMBER: NVN-SB6A-827-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6	3148.6
2.5°	3162.5	3165.1	3172.8	3174.0	3156.2	3133.2	3124.3	3120.5	3105.2	3103.9	3106.5
5°	3200.8	3212.2	3200.8	3167.7	3088.6	2977.7	2893.6	2824.8	2762.3	2743.2	2731.7
7.5°	3277.3	3288.8	3254.4	3124.3	2925.5	2705.0	2506.1	2365.9	2239.6	2192.5	2173.4
10°	3386.9	3402.2	3293.8	3031.2	2679.5	2325.1	1988.6	1751.4	1566.6	1491.4	1459.5
12.5°	3524.6	3530.9	3315.6	2889.8	2359.4	1853.4	1376.7	1123.0	958.6	897.4	878.3
15°	3676.3	3667.3	3318.1	2697.3	1923.5	1310.4	898.7	738.1	671.8	651.4	651.4
17.5°	3835.7	3798.6	3267.1	2419.4	1445.6	896.2	666.7	628.4	616.9	611.8	610.6
20°	3992.4	3909.6	3174.0	2056.1	1037.6	669.2	605.5	594.0	587.6	585.1	582.5
22.5°	4135.2	3993.7	3014.7	1634.2	753.4	591.4	572.4	562.1	550.6	545.6	544.3
25°	4274.1	4042.1	2790.4	1240.2	602.9	553.2	537.9	518.9	503.5	497.1	494.6
27.5°	4409.2	4072.7	2509.9	917.8	537.9	517.5	489.5	462.7	451.2	448.7	446.2
30°	4553.3	4082.9	2191.2	684.5	498.5	472.9	432.1	401.5	395.1	396.5	396.5
32.5°	4729.1	4098.3	1870.0	560.9	465.2	419.4	370.9	339.1	333.9	339.1	337.8
35°	4939.5	4128.8	1560.3	516.3	435.9	364.6	312.3	285.6	280.4	284.2	283.0
37.5°	5225.0	4178.5	1270.9	507.4	411.7	318.7	262.6	240.9	240.9	242.2	240.9
40°	5604.9	4311.0	1012.1	500.9	399.0	284.2	221.8	212.9	216.7	219.2	219.2
42.5°	6067.7	4592.8	837.5	493.3	385.0	269.0	201.4	197.6	204.0	206.5	206.5
45°	6586.4	4949.7	776.3	480.5	372.2	279.2	192.5	187.4	195.1	196.3	197.6
47.5°	7123.1	5298.9	768.6	466.6	359.5	294.5	189.9	178.5	187.4	188.7	189.9
50°	7666.2	5527.2	776.3	444.8	339.1	294.5	191.2	169.5	177.2	181.0	182.2
52.5°	8213.0	5631.7	771.2	397.7	303.4	276.6	191.2	161.8	169.5	172.1	172.1
55°	8743.2	5611.3	693.4	327.6	257.5	244.8	186.1	155.5	160.6	161.8	161.8
57.5°	9162.7	5327.0	549.4	254.9	209.1	204.0	169.5	147.9	151.7	150.4	150.4
60°	9381.9	4702.4	392.6	196.3	164.4	160.6	149.1	137.7	140.2	133.9	132.5
62.5°	9384.5	3876.4	262.6	155.5	131.3	127.5	127.5	123.6	121.1	108.3	104.6
65°	9184.3	2959.9	174.7	123.6	105.8	99.4	107.1	105.8	96.9	79.0	76.5
67.5°	8730.5	1940.1	132.5	96.9	81.6	77.8	85.4	89.3	82.8	66.3	65.0
70°	7797.5	1129.4	109.7	75.2	61.2	57.4	68.9	76.5	68.9	53.5	50.9
72.5°	6476.9	609.4	89.3	56.1	42.0	38.2	54.8	62.4	54.8	39.6	38.2
75°	4202.7	326.4	68.9	37.0	21.6	24.2	40.8	45.9	38.2	25.5	23.0
77.5°	1411.1	144.0	43.4	17.8	10.1	10.1	24.2	28.1	17.8	8.9	7.7
80°	314.9	60.0	17.8	7.7	3.8	3.8	5.1	5.1	2.6	0.0	0.0
82.5°	103.2	24.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.6	8.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	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)