

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: P970474

Luminaire Tested: **NVN-SB6B-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-827-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

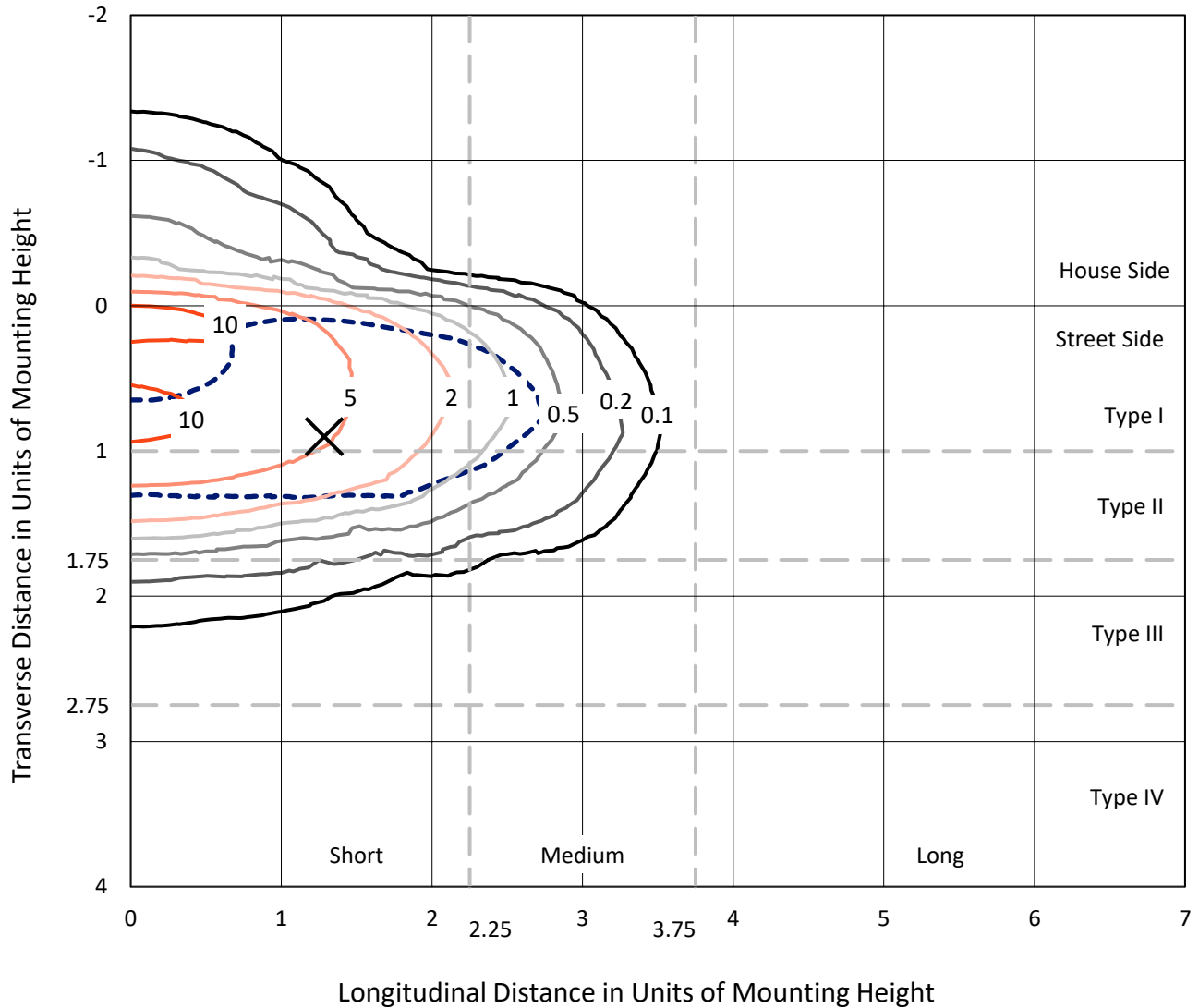
Lumens per Lamp: N/A  
Luminaire Lumens: 25949.9 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): 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

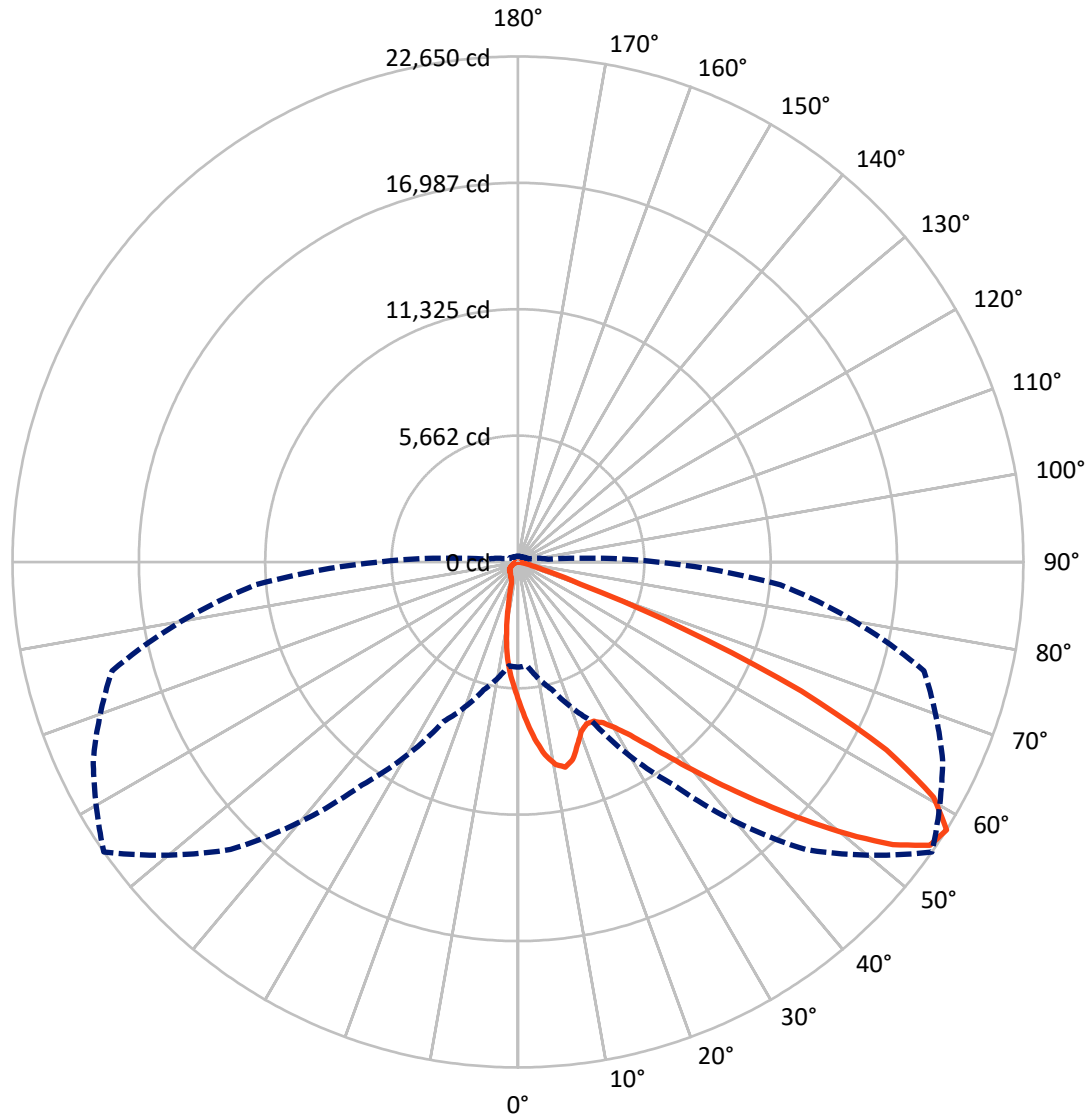
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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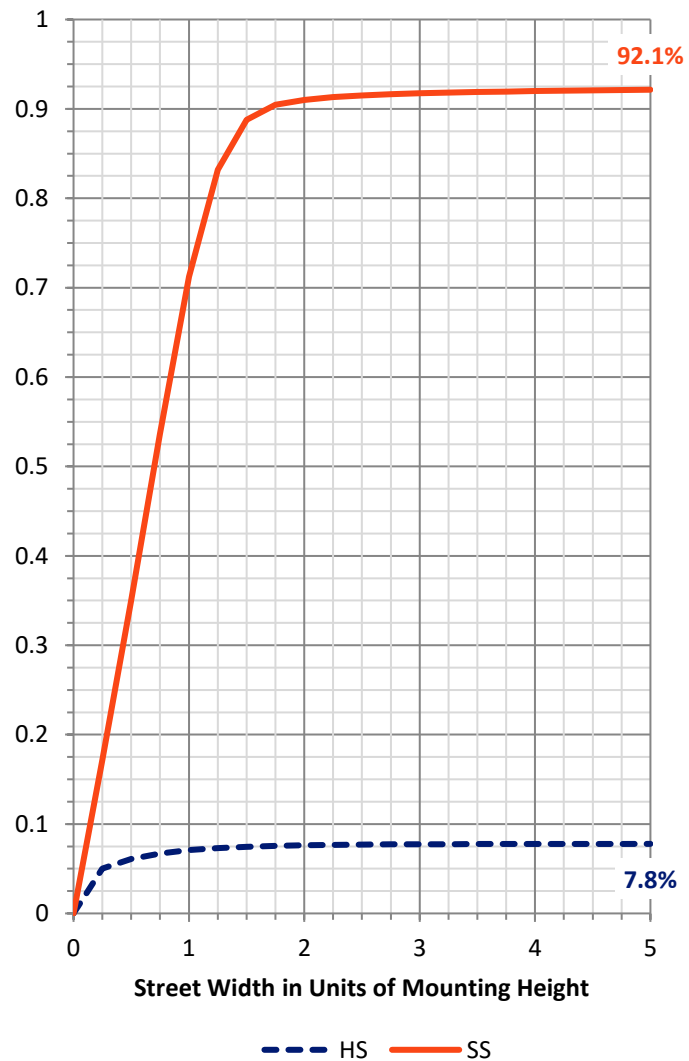
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2026.6	0.0	2026.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	23923.3	0.0	23923.3
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	25949.9	0.0	25949.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.8	2.2
10°-20°	1405.4	5.4
20°-30°	2248.7	8.7
30°-40°	3806.0	14.7
40°-50°	6248.6	24.1
50°-60°	6867.7	26.5
60°-70°	3939.3	15.2
70°-80°	804.9	3.1
80°-90°	47.5	0.2
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°	25949.9	100.0
0°-180°	25949.9	100.0

**Coefficient of Utilization**



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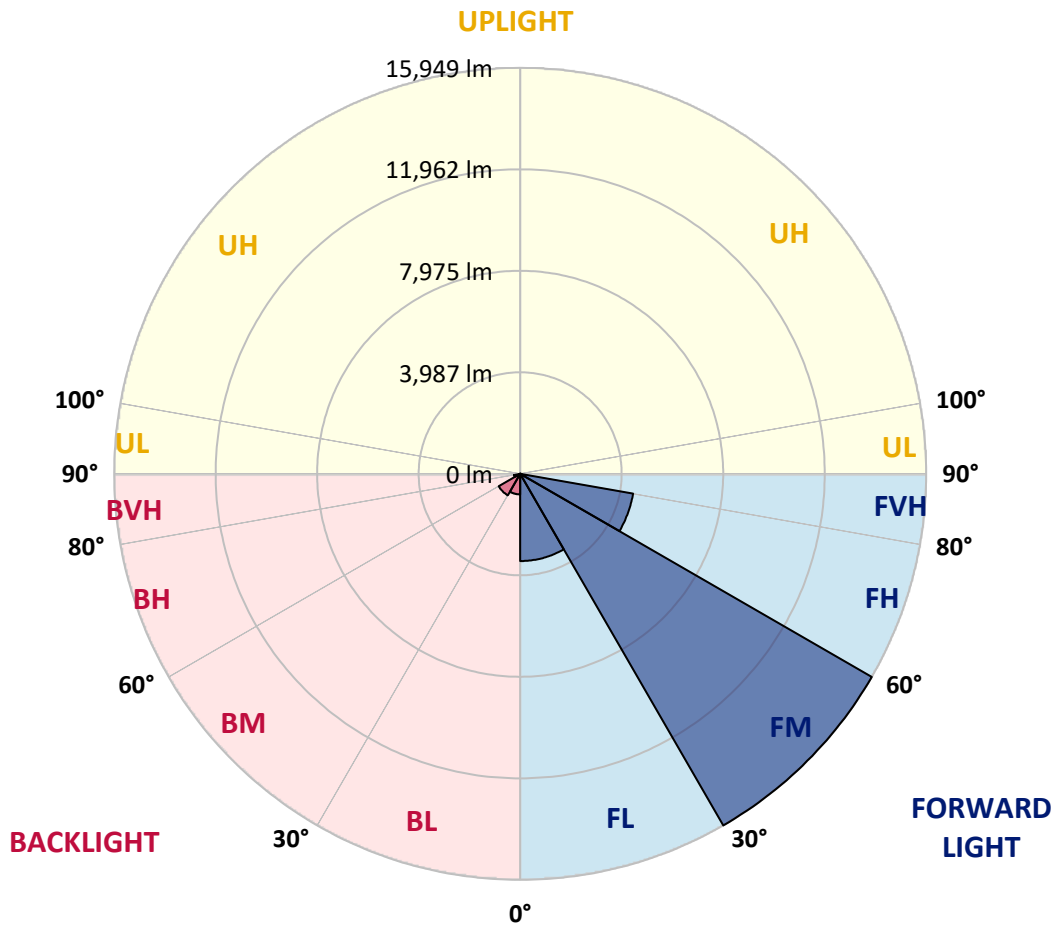
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3426.8	13.2			
FM (30°-60°)	15949.0	61.5			
FH (60°-80°)	4503.2	17.4			G2/5000
FVH (80°-90°)	44.3	0.2			G1/100
BL (0°-30°)	809.1	3.1	B2/1000		
BM (30°-60°)	973.3	3.8	B1/1000		
BH (60°-80°)	241.0	0.9	B1/500		G1/500
BVH (80°-90°)	3.2	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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3
2.5°	7759.0	7661.4	7647.0	7627.8	7442.2	7303.0	7101.4	6880.5	6632.6	6379.7	6267.7
5°	8963.9	8887.1	8872.7	8783.1	8571.9	8335.1	7976.7	7523.8	7061.3	6517.4	6283.7
7.5°	9197.5	9183.1	9248.7	9245.5	9216.7	9029.5	8727.1	8187.8	7493.4	6686.9	6325.3
10°	8155.8	8192.6	8387.9	8559.1	9021.5	9290.3	9224.7	8779.8	7938.2	6880.5	6371.7
12.5°	7207.0	7163.7	7303.0	7496.5	8034.3	8834.3	9431.1	9274.3	8447.0	7099.8	6440.5
15°	6611.8	6594.1	6672.5	6762.1	7171.7	7978.2	9191.1	9676.0	8936.7	7359.0	6544.5
17.5°	6421.3	6406.9	6431.0	6453.3	6719.0	7343.0	8619.8	9922.4	9405.5	7655.0	6659.7
20°	6576.5	6557.3	6554.2	6536.5	6646.9	7072.6	8103.0	9939.9	9826.4	7923.9	6759.0
22.5°	7029.3	7007.0	6928.6	6858.2	6867.7	7109.4	7872.6	9763.9	10143.2	8175.1	6821.4
25°	7850.2	7813.4	7650.2	7413.4	7262.9	7365.3	7907.8	9532.0	10445.7	8371.9	6790.9
27.5°	8877.5	8829.5	8619.8	8267.9	7923.9	7799.0	8162.3	9372.0	10696.8	8522.3	6725.3
30°	9884.0	9821.6	9615.1	9341.5	8839.1	8445.5	8621.5	9442.3	10996.1	8679.1	6638.9
32.5°	10970.5	10911.2	10637.7	10298.4	9882.3	9352.7	9250.3	9786.4	11362.5	8898.3	6578.1
35°	12345.0	12252.1	11863.3	11400.9	10959.3	10423.2	10101.6	10380.0	11850.5	9232.7	6611.8
37.5°	13909.9	13785.1	13365.9	12727.4	12151.4	11551.3	11138.5	11196.1	12565.8	9680.7	6715.7
40°	15385.2	15271.6	14884.3	14282.8	13559.4	12831.4	12391.3	12263.4	13553.1	10226.4	6898.1
42.5°	16270.0	16167.6	16004.5	15750.0	15140.4	14398.0	13842.7	13565.9	14721.2	10879.2	7120.6
45°	16319.6	16230.1	16449.3	16745.3	16625.3	16130.8	15454.0	14946.8	15894.1	11492.1	7351.0
47.5°	15526.0	15465.2	16130.8	17164.5	17679.8	17887.8	17263.8	16212.5	16862.2	11932.1	7445.4
50°	13362.6	13340.3	14710.0	16607.7	18081.4	19427.1	19172.7	17390.1	17612.6	12159.4	7355.8
52.5°	11586.5	11504.9	12303.4	14825.2	17497.4	20236.8	21038.4	18545.4	18137.5	12202.5	7146.2
55°	8787.9	8715.9	9717.6	11842.5	15614.0	19948.8	22403.3	19737.6	18513.4	12092.1	6770.1
57.5°	4714.0	4669.2	5934.9	7882.2	12205.8	18220.6	22649.7	20998.5	18830.3	11799.3	6243.7
60°	1835.4	1827.4	2301.0	3824.3	7418.2	14823.6	21406.5	21755.3	19028.7	11439.3	5803.7
62.5°	1110.5	1134.5	1211.3	1717.0	3277.0	9208.7	18540.6	20894.4	19161.6	11109.7	5440.4
65°	918.5	920.0	929.7	1179.3	1569.7	3853.1	13957.9	18062.2	18833.5	10522.4	4925.2
67.5°	787.3	801.7	838.4	936.0	1107.3	1689.7	8035.8	13991.5	16838.1	9155.9	4121.9
70°	620.8	640.0	686.4	769.7	854.4	1057.7	2969.8	9309.6	12863.4	6901.3	3117.0
72.5°	523.3	521.6	545.6	625.7	678.4	744.0	1142.5	5216.4	7475.8	3294.7	1542.5
75°	404.9	420.9	451.2	523.3	555.2	539.3	619.2	1905.8	2678.6	998.5	524.8
77.5°	316.8	329.6	356.8	427.2	459.2	382.4	356.8	681.6	860.9	358.4	236.8
80°	142.4	153.6	243.2	315.2	374.4	264.0	193.6	348.8	382.4	163.2	120.0
82.5°	25.6	43.2	142.4	166.5	192.0	171.2	100.8	180.8	187.2	65.6	41.6
85°	1.6	3.2	49.6	60.8	76.8	56.0	30.4	72.0	62.4	22.4	16.0
87.5°	0.0	0.0	0.0	1.6	1.6	8.0	9.6	12.8	9.6	8.0	6.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3	6253.3
2.5°	6152.5	5925.2	5704.4	5523.6	5418.0	5238.8	5120.4	5101.2	5051.6	5094.8
5°	6034.1	5627.7	5216.4	4848.4	4546.0	4155.6	3864.4	3741.0	3633.9	3670.7
7.5°	5978.1	5336.5	4696.3	4067.5	3421.0	2797.0	2333.0	2139.4	1992.2	2013.0
10°	5902.9	5034.0	4030.7	3070.6	2205.0	1589.0	1268.9	1150.5	1084.9	1086.5
12.5°	5845.3	4672.4	3257.9	2081.8	1342.5	1014.4	915.2	886.4	867.3	868.9
15°	5816.5	4246.8	2494.6	1387.3	960.1	859.3	835.3	822.5	809.6	808.1
17.5°	5768.5	3773.1	1825.7	1012.9	840.1	804.8	784.0	769.7	753.7	750.5
20°	5696.4	3235.4	1334.6	856.1	787.3	760.0	731.2	712.1	692.9	689.6
22.5°	5563.6	2667.5	1025.7	792.0	748.9	718.4	683.3	660.8	641.6	638.5
25°	5317.2	2134.6	864.1	752.0	715.2	678.4	640.0	609.7	592.0	588.9
27.5°	5005.2	1676.9	784.0	715.2	672.1	638.5	595.2	566.4	550.4	547.2
30°	4637.2	1291.3	737.7	673.6	620.8	592.0	553.6	529.6	520.1	520.1
32.5°	4240.3	1032.1	718.4	632.0	576.0	544.1	513.6	504.0	500.8	499.3
35°	3867.5	896.1	708.9	598.5	536.1	505.6	492.8	494.5	500.8	500.8
37.5°	3536.2	852.9	704.1	574.4	500.8	473.7	481.6	496.0	489.6	489.6
40°	3237.1	857.6	700.9	556.9	472.0	456.0	472.0	460.8	444.8	443.2
42.5°	3008.3	897.7	694.4	542.4	454.5	443.2	436.9	419.2	417.6	420.9
45°	2841.8	932.9	692.9	536.1	435.2	414.4	406.4	388.8	420.9	428.9
47.5°	2645.0	932.9	692.9	513.6	403.2	395.2	382.4	363.3	395.2	403.2
50°	2390.6	873.7	665.6	488.0	377.6	372.8	350.4	326.5	320.0	324.8
52.5°	2069.0	766.5	596.9	452.8	352.0	342.5	315.2	297.7	292.8	292.8
55°	1702.5	641.6	504.0	401.6	324.8	307.2	288.0	280.0	275.2	272.0
57.5°	1384.2	526.4	404.9	356.8	299.2	276.9	270.4	260.9	252.9	248.0
60°	1136.1	414.4	334.5	316.8	273.6	252.9	251.2	238.4	217.6	214.4
62.5°	876.9	304.0	281.7	275.2	248.0	230.4	227.2	201.6	169.6	163.2
65°	619.2	236.8	227.2	241.6	220.8	204.8	196.8	158.4	124.8	120.0
67.5°	435.2	198.4	179.2	211.3	192.0	171.2	166.5	134.4	104.0	100.8
70°	310.5	161.6	147.2	180.8	153.6	150.4	140.8	112.0	84.8	81.6
72.5°	219.2	123.2	113.6	156.8	105.6	129.6	115.2	86.4	64.0	60.8
75°	161.6	88.0	80.1	91.2	76.8	97.6	81.6	57.6	40.0	38.4
77.5°	118.4	56.0	48.0	44.8	44.8	60.8	44.8	24.0	17.6	16.0
80°	83.2	25.6	22.4	19.2	17.6	14.3	6.4	3.2	1.6	1.6
82.5°	49.6	11.2	11.2	8.0	4.8	0.0	0.0	0.0	0.0	0.0
85°	11.2	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	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

(END OF REPORT)