

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: P961532

Luminaire Tested: **NVN-SB2A-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2A-827-U-T2U-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

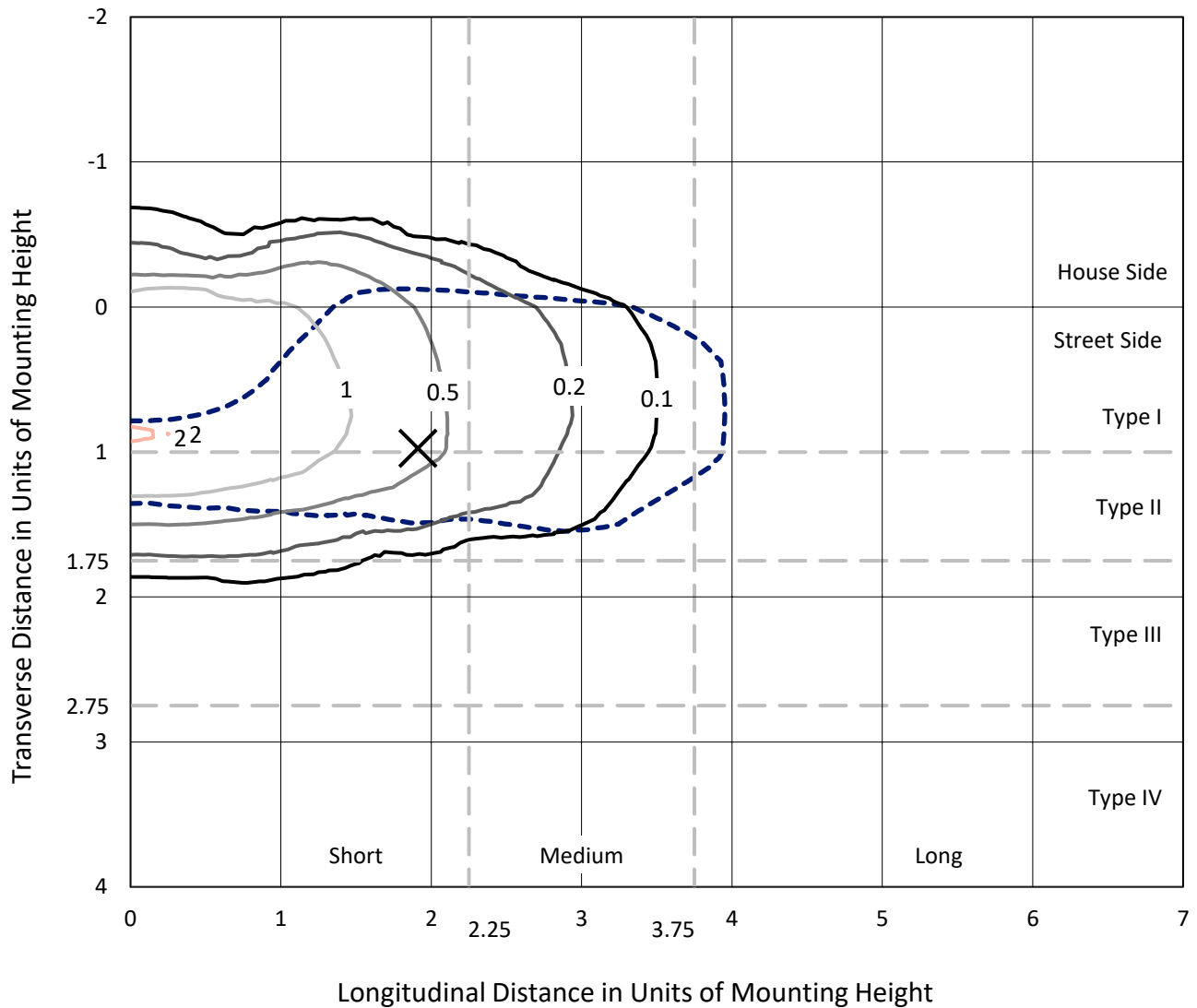
Lumens per Lamp: N/A  
Luminaire Lumens: 6111.1 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P961532  
 CATALOG NUMBER: NVN-SB2A-827-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

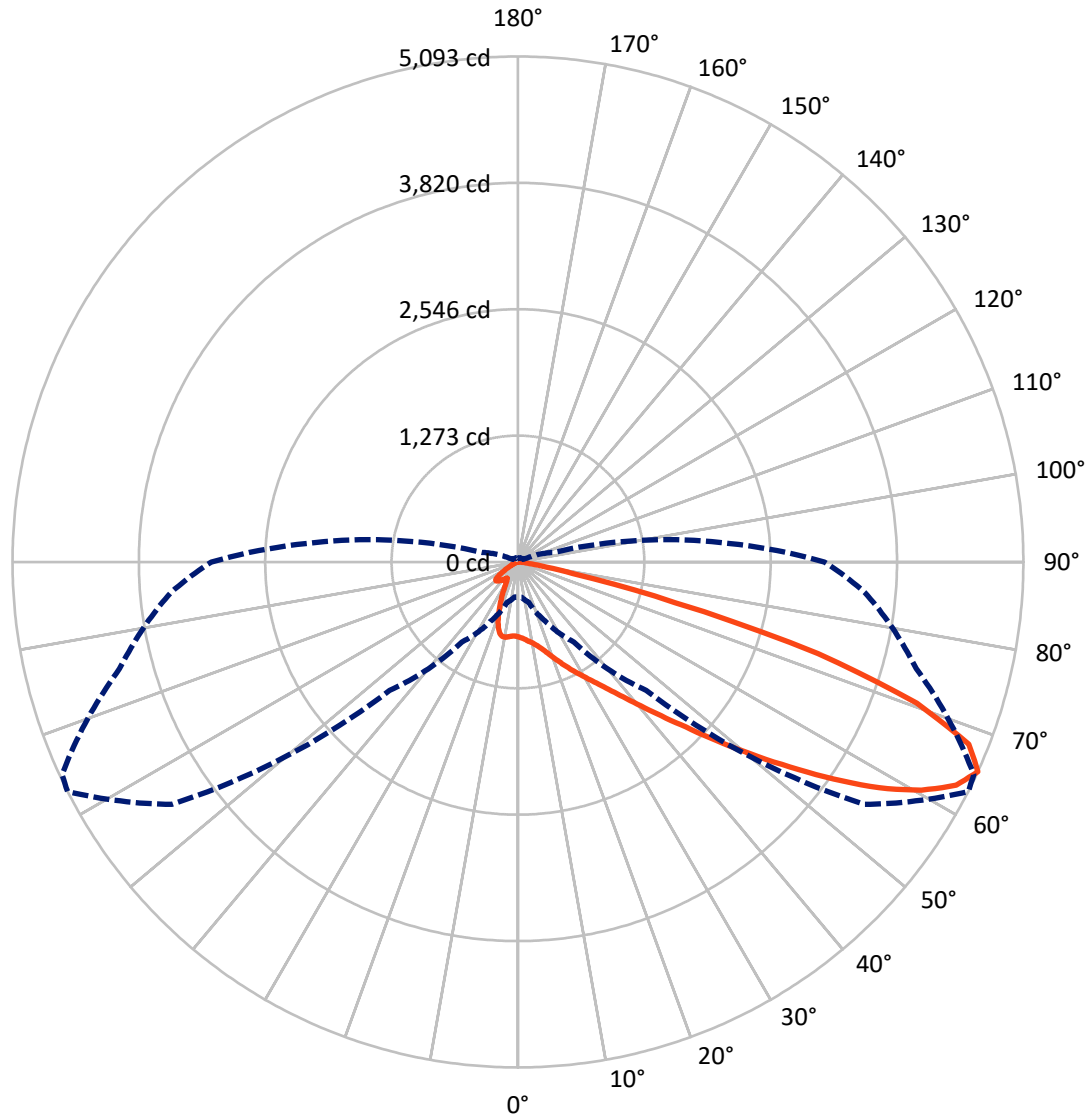
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P961532  
CATALOG NUMBER: NVN-SB2A-827-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P961532  
 CATALOG NUMBER: NVN-SB2A-827-U-T2U-HSS

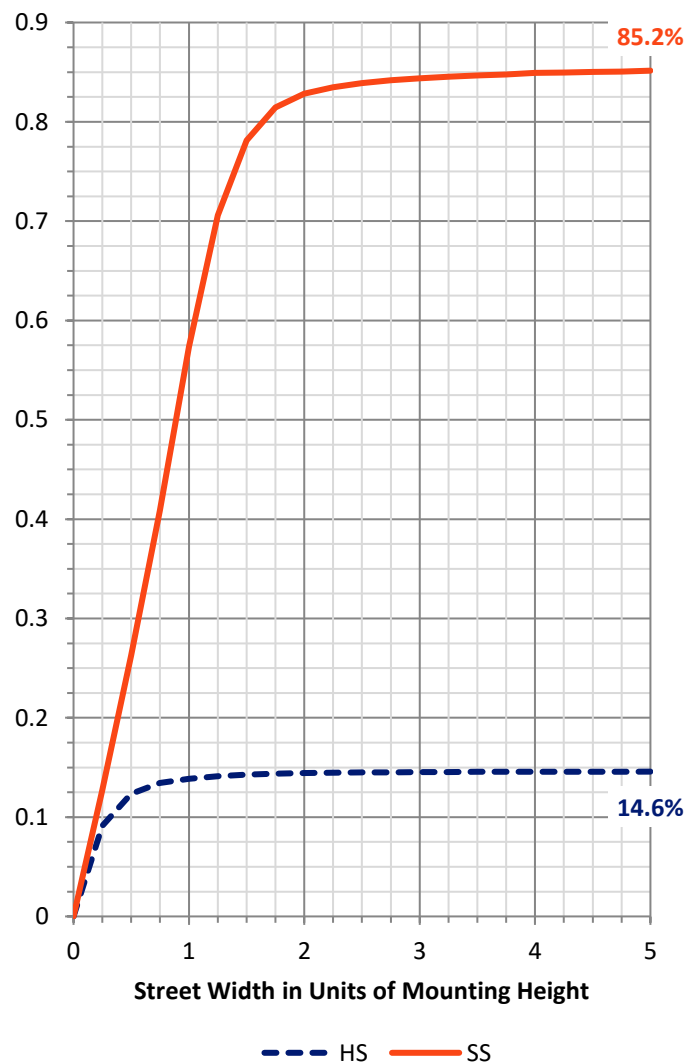
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	898.3	0.0	898.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	5212.8	0.0	5212.8
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	6111.1	0.0	6111.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.1	1.2
10°-20°	197.2	3.2
20°-30°	343.3	5.6
30°-40°	618.8	10.1
40°-50°	1227.3	20.1
50°-60°	1671.8	27.4
60°-70°	1334.4	21.8
70°-80°	603.8	9.9
80°-90°	43.4	0.7
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°	6111.1	100.0
0°-180°	6111.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P961532

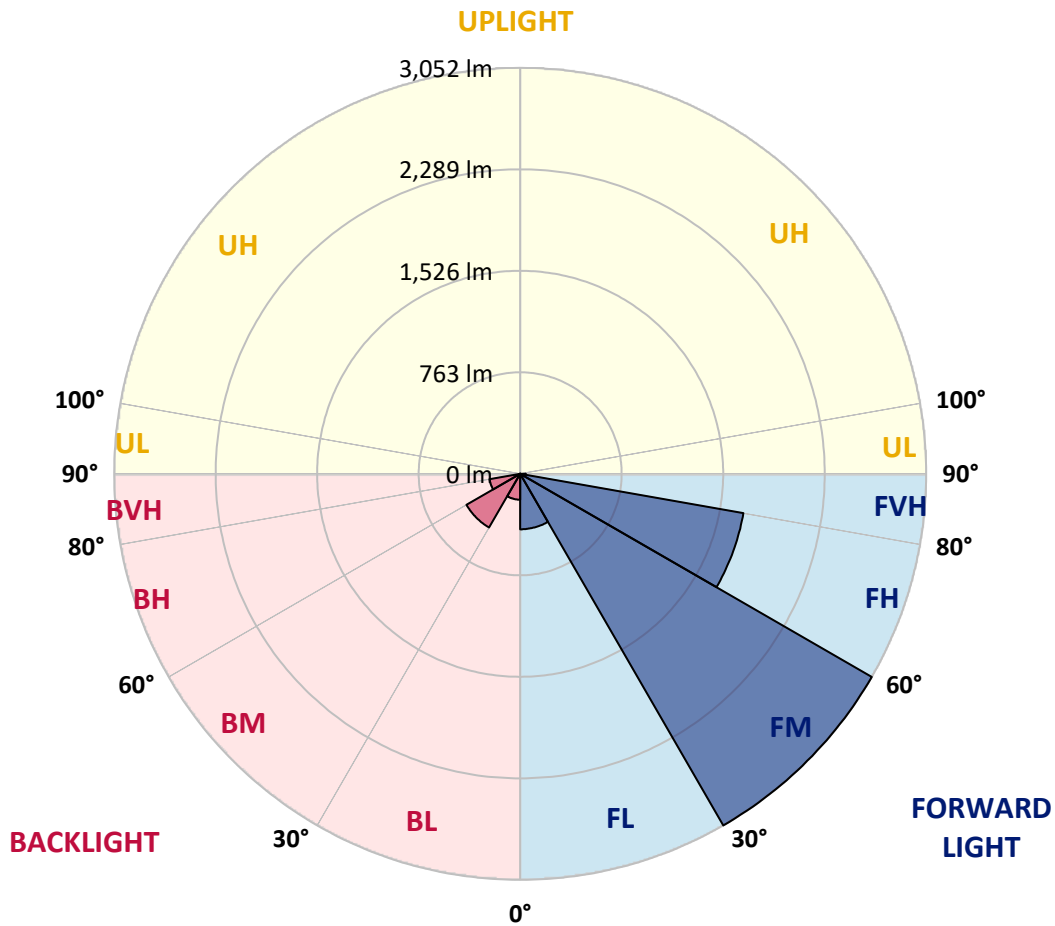
CATALOG NUMBER: NVN-SB2A-827-U-T2U-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.2	6.8			
FM (30°-60°)	3051.7	49.9			
FH (60°-80°)	1703.7	27.9			G1/1800
FVH (80°-90°)	40.2	0.7			G1/100
BL (0°-30°)	194.4	3.2	B1/500		
BM (30°-60°)	466.2	7.6	B1/1000		
BH (60°-80°)	234.5	3.8	B1/500		G1/500
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



REPORT NUMBER: P961532

CATALOG NUMBER: NVN-SB2A-827-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2
2.5°	771.9	769.8	772.7	771.4	770.6	769.0	768.1	767.2	765.6	764.3	759.2
5°	774.0	772.7	775.6	778.2	780.7	783.2	784.5	786.2	784.5	781.2	776.1
7.5°	756.3	755.5	761.8	769.4	780.7	790.4	800.9	806.8	807.2	806.0	800.4
10°	755.0	753.0	759.2	768.5	783.2	800.4	819.0	831.6	833.2	838.8	832.8
12.5°	774.8	772.7	781.6	791.6	806.8	824.8	847.6	865.2	867.8	875.2	871.0
15°	808.0	805.1	815.2	828.2	847.6	868.2	892.2	908.0	910.2	919.4	911.8
17.5°	846.8	843.8	855.6	869.4	890.4	918.6	946.4	964.0	966.6	972.4	958.6
20°	896.4	892.6	901.8	914.4	936.6	970.3	1003.5	1028.8	1028.3	1028.3	1005.6
22.5°	953.9	948.0	956.0	966.1	987.2	1027.9	1072.0	1101.9	1101.9	1090.1	1052.7
25°	1015.7	1009.8	1018.6	1027.9	1046.4	1092.6	1144.4	1181.3	1183.1	1162.9	1103.2
27.5°	1093.1	1085.5	1092.2	1103.2	1114.1	1161.2	1222.5	1265.5	1266.3	1235.1	1151.1
30°	1241.9	1220.5	1199.5	1187.7	1192.7	1239.3	1304.9	1352.5	1356.7	1313.7	1203.2
32.5°	1514.3	1510.1	1436.1	1339.5	1288.9	1323.5	1397.1	1454.2	1456.7	1401.7	1270.9
35°	1937.7	1932.6	1813.6	1629.5	1465.1	1436.1	1508.9	1576.6	1574.9	1512.6	1358.7
37.5°	2443.0	2438.4	2281.5	2035.2	1769.0	1606.4	1653.0	1724.2	1734.6	1653.0	1472.3
40°	2874.8	2857.5	2758.3	2520.8	2172.7	1888.9	1858.2	1905.3	1916.2	1819.6	1616.5
42.5°	3201.9	3187.1	3136.7	2988.3	2661.2	2306.8	2099.9	2118.1	2130.3	2014.2	1782.2
45°	3371.3	3367.9	3388.1	3374.2	3158.9	2819.7	2445.5	2370.3	2374.9	2229.9	1970.0
47.5°	3395.2	3393.6	3485.6	3616.0	3587.0	3398.2	2889.1	2684.8	2668.4	2473.3	2174.3
50°	3254.0	3250.6	3427.2	3671.4	3872.9	3884.1	3392.7	3039.1	3003.0	2725.1	2387.5
52.5°	2802.9	2802.0	3092.1	3498.6	3973.3	4309.6	3890.5	3428.4	3367.9	2991.7	2612.8
55°	2156.7	2172.3	2504.8	2985.3	3790.0	4514.4	4337.4	3860.7	3767.7	3259.9	2820.6
57.5°	1527.8	1550.5	1879.2	2307.2	3221.6	4393.4	4639.7	4293.6	4193.6	3527.2	3031.1
60°	820.6	840.8	1170.0	1680.8	2396.8	3941.7	4799.0	4669.5	4574.9	3781.2	3221.2
62.5°	488.9	495.7	631.9	1085.1	1621.1	3011.4	4731.3	4955.8	4878.1	3994.3	3386.4
65°	351.1	352.3	420.9	662.6	984.2	1829.6	4256.6	5092.9	5068.9	4154.9	3508.8
67.5°	295.5	294.7	323.3	440.1	670.6	916.5	3262.4	4899.1	5000.8	4256.6	3578.2
70°	253.5	254.8	288.4	322.5	504.1	518.8	1622.0	4265.5	4482.4	4283.6	3574.0
72.5°	188.8	193.0	224.1	293.9	380.5	356.9	560.0	3162.7	3555.0	4035.9	3388.5
75°	133.2	135.4	157.6	247.2	283.8	259.8	285.9	1635.0	2137.8	3094.3	2773.4
77.5°	102.6	106.4	119.4	172.8	279.6	182.4	174.9	565.9	869.4	1869.2	1901.5
80°	55.5	62.2	86.2	124.8	196.3	129.0	86.6	225.3	294.7	874.0	733.2
82.5°	28.6	32.0	60.2	90.0	111.8	112.6	42.8	93.8	121.5	269.9	100.4
85°	11.4	13.8	40.4	49.6	57.6	55.5	19.4	37.8	43.8	74.8	30.6
87.5°	2.6	4.2	14.8	11.4	11.0	11.8	4.6	8.8	8.4	8.8	5.4
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: P961532  
 CATALOG NUMBER: NVN-SB2A-827-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2	754.2
2.5°	758.8	757.2	752.6	747.5	741.6	738.2	736.2	735.7	732.8	730.7	732.8
5°	771.4	769.8	761.0	750.4	739.1	730.2	721.8	714.3	703.4	701.2	700.4
7.5°	796.6	792.0	777.8	763.4	742.0	716.4	685.3	649.5	617.6	607.9	603.3
10°	827.8	821.4	803.4	778.2	730.7	660.9	585.7	515.9	460.3	444.7	438.9
12.5°	863.2	857.6	833.6	787.0	683.2	556.6	441.5	354.9	301.0	287.5	283.8
15°	905.2	897.2	864.0	773.6	598.3	422.9	303.1	251.8	232.5	230.0	227.4
17.5°	949.7	936.6	890.8	725.2	483.9	300.6	234.2	219.5	211.0	208.5	207.3
20°	990.5	973.6	906.8	652.1	361.5	234.2	209.8	200.1	192.6	189.6	187.9
22.5°	1031.3	1007.3	906.8	552.4	271.2	207.7	192.6	183.7	174.9	171.1	169.0
25°	1073.7	1041.8	890.8	441.5	218.2	190.4	176.2	166.5	158.9	154.3	152.6
27.5°	1114.9	1070.8	854.2	336.3	194.2	175.3	161.0	151.8	144.6	141.2	141.2
30°	1154.0	1099.4	803.0	255.2	178.7	160.6	147.2	139.2	132.0	128.6	129.0
32.5°	1207.0	1135.5	748.4	209.4	165.2	146.7	134.6	127.0	120.6	118.2	118.2
35°	1280.5	1188.9	701.2	205.6	153.9	135.4	123.2	116.0	109.8	107.6	107.6
37.5°	1384.9	1275.1	676.4	230.8	144.6	125.3	114.0	106.4	100.4	98.8	98.4
40°	1513.5	1391.9	689.9	256.0	138.3	116.4	105.5	98.0	92.9	90.8	90.4
42.5°	1666.1	1536.2	764.3	275.4	134.1	108.9	97.6	89.2	85.8	85.0	85.0
45°	1841.4	1694.6	878.2	296.0	127.4	101.8	89.6	83.2	80.8	80.3	79.8
47.5°	2040.7	1868.8	1010.2	321.6	120.6	95.0	83.2	79.0	77.0	76.1	76.1
50°	2238.3	2044.1	1146.1	335.9	115.2	88.7	78.2	74.8	73.2	72.8	72.8
52.5°	2445.1	2224.4	1255.7	322.5	110.6	83.6	74.0	71.4	69.8	69.4	69.4
55°	2642.2	2370.3	1274.7	273.7	101.3	78.6	69.4	68.1	66.0	66.0	65.6
57.5°	2812.1	2443.4	1141.0	201.0	92.0	71.0	64.8	63.4	61.8	61.4	61.0
60°	2968.1	2422.4	880.8	135.4	82.0	63.4	58.8	58.0	56.4	54.2	53.8
62.5°	3055.9	2329.9	602.5	88.3	71.9	55.5	52.2	51.7	48.0	43.8	42.8
65°	3089.1	2139.9	375.9	64.4	60.2	47.5	45.0	44.2	38.6	34.0	33.6
67.5°	3060.1	1827.1	189.6	50.8	47.5	39.6	37.0	37.0	33.2	29.0	28.6
70°	2944.1	1369.7	79.8	40.8	36.6	30.2	30.2	32.0	28.2	23.6	23.2
72.5°	2692.4	921.6	42.4	31.2	27.4	21.4	24.8	26.0	22.2	17.6	17.6
75°	2140.3	562.1	29.4	23.2	17.2	15.2	19.0	19.8	15.2	11.8	11.4
77.5°	1463.9	322.9	19.8	14.8	11.0	8.8	13.0	12.2	8.0	5.4	5.8
80°	642.8	134.6	11.4	6.8	4.2	3.4	4.6	3.4	2.6	1.6	1.6
82.5°	75.2	31.6	4.2	2.6	1.6	0.8	0.4	0.0	0.0	0.0	0.0
85°	15.6	3.8	2.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.8	0.4	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)