

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: P959956

Luminaire Tested: **NVN-SB1B-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1B-827-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

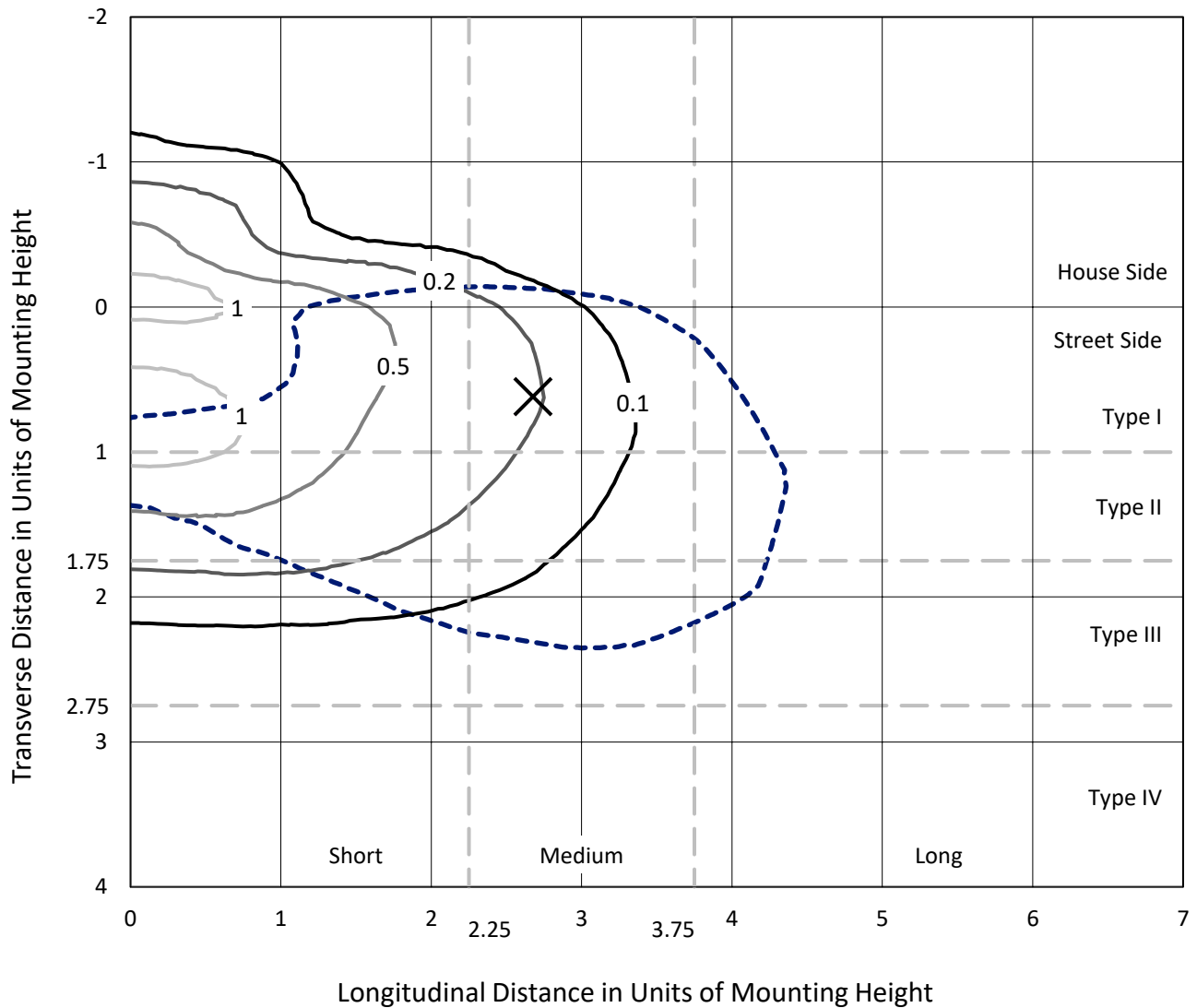
Lumens per Lamp: N/A  
Luminaire Lumens: 5153.7 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): 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

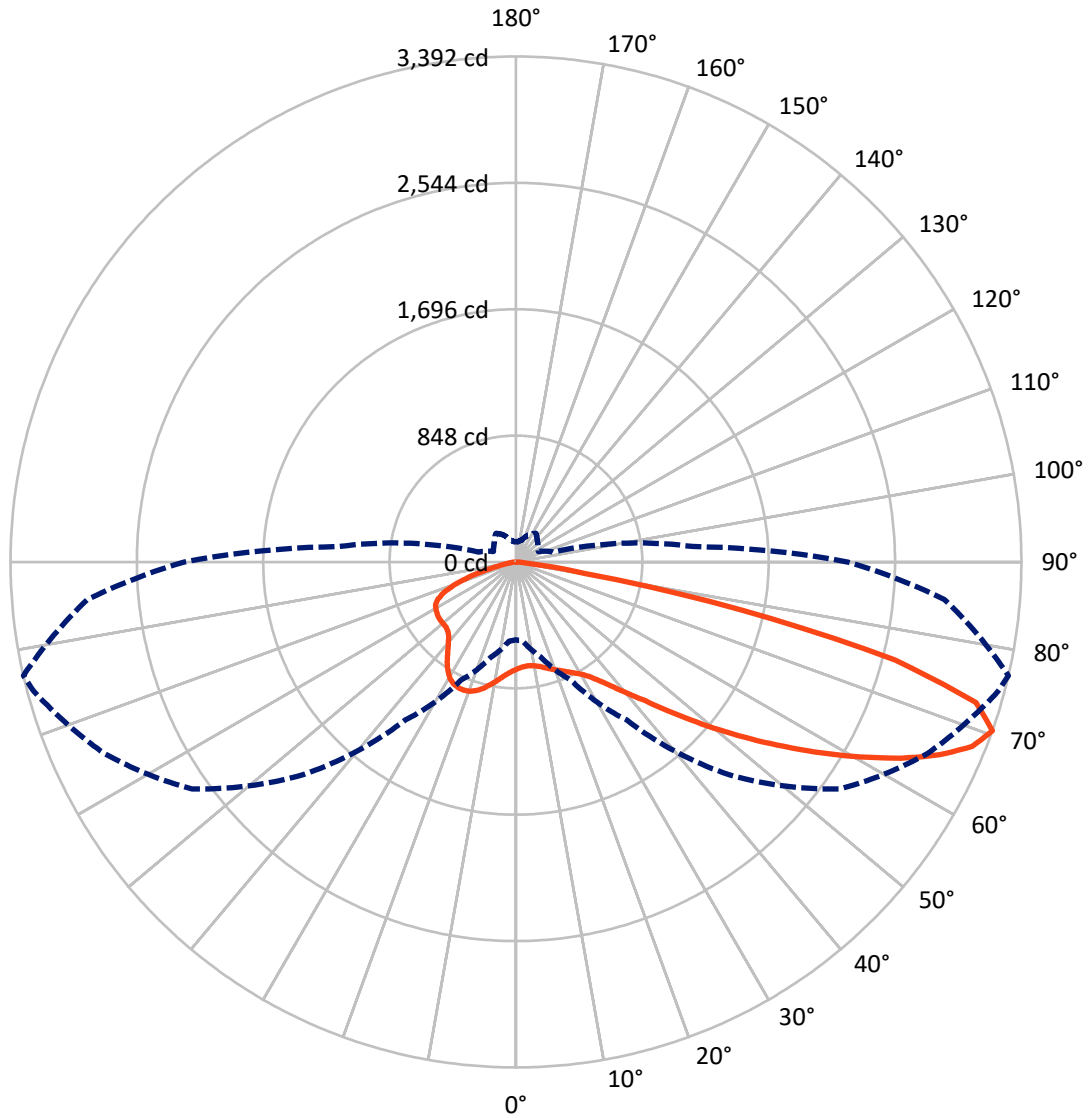
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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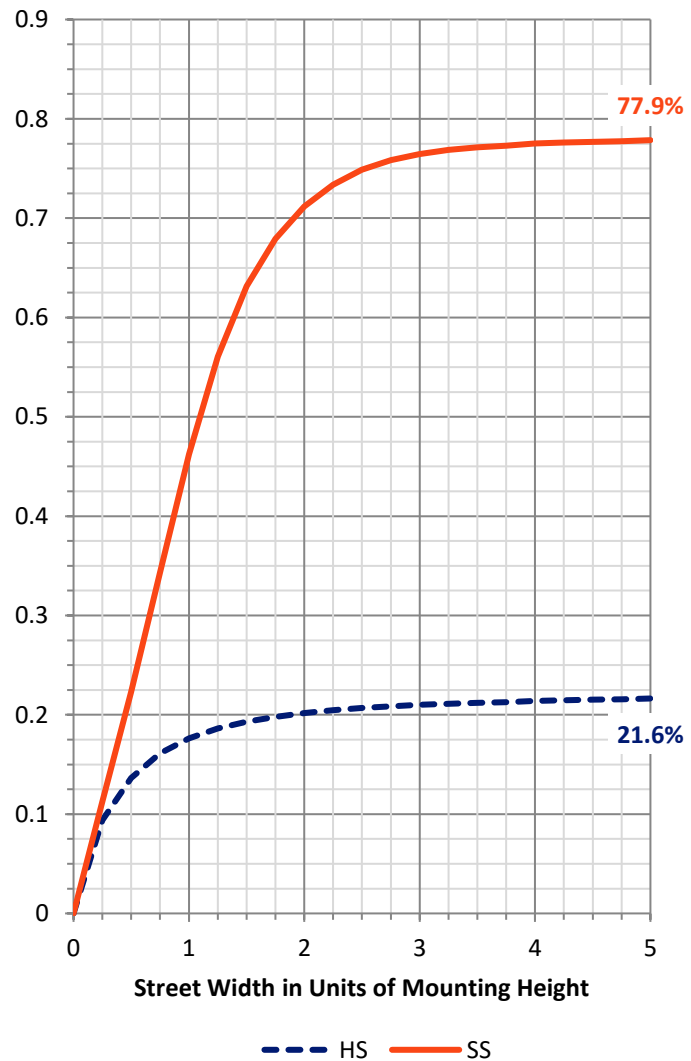
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1128.6	0.0	1128.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	4025.1	0.0	4025.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	5153.7	0.0	5153.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	1.3
10°-20°	197.9	3.8
20°-30°	338.4	6.6
30°-40°	544.3	10.6
40°-50°	849.7	16.5
50°-60°	1135.0	22.0
60°-70°	1209.8	23.5
70°-80°	744.7	14.5
80°-90°	65.3	1.3
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°	5153.7	100.0
0°-180°	5153.7	100.0

**Coefficient of Utilization**



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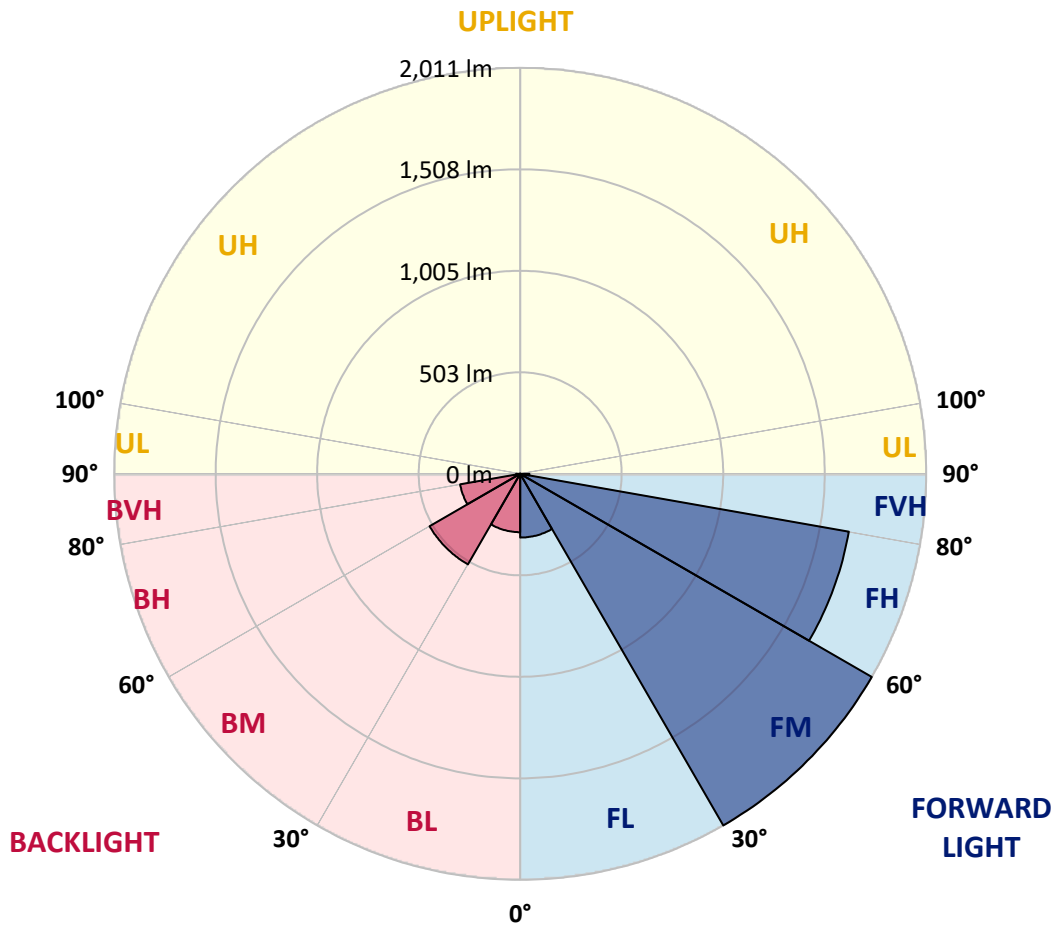
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.7	6.1			
FM (30°-60°)	2010.9	39.0			
FH (60°-80°)	1652.9	32.1			G1/1800
FVH (80°-90°)	45.6	0.9			G1/100
BL (0°-30°)	289.2	5.6	B1/500		
BM (30°-60°)	518.2	10.1	B1/1000		
BH (60°-80°)	301.6	5.9	B1/500		G1/500
BVH (80°-90°)	19.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	662.8	662.5	665.9	667.0	673.3	677.8	686.2	695.3	706.8	708.2	715.2
5°	624.5	624.5	628.4	632.6	640.8	649.8	662.8	678.3	698.4	701.6	719.2
7.5°	592.0	594.2	597.6	605.8	615.3	628.2	648.0	670.1	696.6	701.6	730.1
10°	565.9	568.3	572.5	579.1	593.4	611.3	637.1	665.6	701.0	709.0	745.9
12.5°	557.7	560.1	562.4	567.4	580.7	601.8	632.6	667.8	711.9	719.8	767.5
15°	576.8	579.6	577.8	576.5	583.3	602.6	634.8	675.5	725.3	736.7	794.2
17.5°	620.5	621.6	617.4	605.0	603.9	614.2	644.8	686.0	742.2	754.6	821.1
20°	691.3	689.4	680.7	656.2	642.2	640.1	661.9	701.8	759.6	772.8	850.1
22.5°	787.3	785.3	767.8	729.0	697.9	677.3	686.7	722.4	779.2	794.0	878.4
25°	907.2	904.3	878.6	825.8	777.6	726.6	720.6	749.6	803.2	816.9	907.9
27.5°	1047.0	1044.7	1017.0	947.3	877.6	794.2	762.5	781.6	828.3	843.9	941.3
30°	1197.5	1204.4	1155.3	1080.4	992.2	882.3	819.0	820.8	860.7	874.7	981.6
32.5°	1374.3	1386.2	1327.2	1232.0	1111.7	978.2	890.3	875.8	907.9	919.6	1032.6
35°	1549.6	1563.1	1514.0	1409.0	1270.4	1091.1	964.7	938.9	970.8	983.5	1100.1
37.5°	1701.1	1719.0	1693.7	1602.4	1440.1	1227.3	1061.9	1013.0	1048.2	1063.9	1190.9
40°	1820.7	1848.2	1846.3	1789.2	1640.2	1392.6	1185.1	1104.6	1144.2	1161.3	1301.0
42.5°	1917.9	1941.6	1962.2	1959.3	1848.9	1580.2	1330.0	1223.6	1253.8	1273.6	1424.7
45°	1984.9	2010.2	2054.5	2102.4	2049.8	1781.1	1496.1	1364.9	1392.4	1422.2	1572.4
47.5°	2044.8	2073.6	2131.1	2206.8	2220.4	1982.8	1677.9	1529.3	1554.4	1585.3	1720.4
50°	2050.1	2074.9	2164.1	2271.5	2341.5	2176.5	1873.2	1713.8	1737.3	1770.3	1879.0
52.5°	1922.6	1961.6	2117.3	2269.7	2397.2	2338.5	2067.2	1905.7	1932.1	1971.7	2043.2
55°	1492.4	1549.6	1980.4	2198.9	2377.4	2443.4	2251.7	2109.8	2143.5	2185.0	2208.5
57.5°	1285.5	1310.5	1572.0	2070.1	2287.1	2470.6	2407.4	2315.9	2370.2	2415.6	2383.1
60°	1155.3	1176.2	1330.9	1869.8	2168.3	2427.5	2527.9	2508.0	2602.0	2656.1	2561.9
62.5°	1015.9	1035.8	1176.4	1561.3	2016.3	2356.0	2603.8	2685.4	2839.6	2898.7	2730.3
65°	877.6	894.5	1029.4	1311.8	1823.1	2284.4	2643.2	2838.7	3059.4	3120.6	2870.1
67.5°	723.4	737.5	865.0	1106.7	1588.1	2186.5	2662.6	2959.4	3250.8	3303.3	2939.3
70°	522.1	532.9	664.6	875.2	1293.3	2018.1	2654.7	3044.9	3350.0	3391.9	2887.0
72.5°	246.8	256.6	411.2	568.3	913.5	1690.3	2494.5	2977.0	3249.1	3228.3	2567.1
75°	131.7	140.1	236.3	311.7	482.5	1158.8	2041.4	2564.4	2728.4	2627.1	1897.3
77.5°	89.2	95.8	146.3	187.2	220.4	550.0	1312.1	1775.6	1708.3	1540.9	950.2
80°	70.7	77.6	119.8	126.7	106.6	198.7	542.1	821.9	590.4	472.2	270.3
82.5°	54.3	62.0	100.9	91.8	58.1	81.6	157.8	259.9	151.3	115.1	65.5
85°	33.2	41.4	79.2	58.6	32.7	37.2	53.6	72.4	46.2	38.5	23.5
87.5°	16.9	23.8	40.1	21.4	14.8	8.7	14.2	14.2	12.1	10.6	6.0
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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	721.6	726.9	735.8	744.4	750.9	757.3	763.6	767.0	768.0	772.3	774.7
5°	730.1	739.8	757.3	773.7	783.9	790.3	794.8	797.3	797.9	799.2	801.3
7.5°	745.7	761.3	785.5	801.9	809.5	809.0	807.2	800.5	797.9	795.5	796.0
10°	767.5	788.1	817.9	829.3	824.6	811.9	795.5	776.2	767.3	758.6	755.9
12.5°	794.8	820.8	850.1	849.6	826.2	793.7	755.6	726.1	707.4	693.9	690.7
15°	827.7	857.8	880.3	862.3	810.9	752.6	696.8	658.3	641.3	626.6	625.0
17.5°	861.8	894.0	904.3	858.3	772.3	691.6	628.4	598.1	581.5	573.6	575.9
20°	895.0	927.0	918.5	835.7	713.7	622.4	566.2	549.5	546.1	548.0	547.1
22.5°	930.2	958.7	921.5	791.8	639.0	551.7	520.8	521.3	528.9	534.5	535.8
25°	966.1	985.3	913.8	728.5	558.7	499.7	492.0	500.4	515.5	526.3	529.2
27.5°	1000.6	1009.1	897.2	650.1	489.8	462.5	463.7	481.1	503.9	519.0	522.6
30°	1039.7	1030.2	865.2	561.9	442.1	430.5	441.6	461.9	484.6	498.0	501.2
32.5°	1083.7	1048.4	814.6	480.4	408.4	404.9	423.1	436.3	446.3	450.3	452.4
35°	1138.7	1074.0	749.6	423.1	378.0	386.1	403.5	397.0	393.0	390.9	393.0
37.5°	1209.9	1108.5	673.6	385.9	353.4	372.7	379.9	359.3	343.7	336.0	337.8
40°	1295.7	1159.3	600.4	357.1	337.8	361.1	348.7	323.9	304.0	293.3	294.1
42.5°	1391.0	1212.3	538.9	335.5	329.1	351.6	325.7	296.1	264.2	260.8	264.2
45°	1491.1	1266.9	497.0	318.9	324.9	343.4	312.5	264.8	242.0	256.0	263.4
47.5°	1591.1	1317.1	471.7	306.5	322.8	334.2	300.9	247.3	231.2	251.5	261.1
50°	1702.4	1361.9	460.3	297.5	320.4	330.5	283.5	242.8	219.9	233.3	243.3
52.5°	1813.0	1396.8	451.9	288.5	317.0	327.6	275.0	237.6	206.1	206.9	212.5
55°	1923.4	1419.5	442.6	276.6	309.3	321.2	274.3	231.8	195.9	192.2	194.7
57.5°	2041.1	1432.4	431.3	263.4	296.1	305.1	273.5	227.2	192.7	186.7	187.4
60°	2160.9	1451.4	416.5	247.3	278.5	285.9	271.6	225.7	190.9	180.5	181.3
62.5°	2268.3	1458.1	398.8	232.0	255.7	266.8	267.6	224.4	185.8	168.1	168.1
65°	2338.8	1429.6	368.0	214.6	231.2	247.3	259.9	219.9	176.8	159.2	159.2
67.5°	2335.9	1348.3	319.6	192.2	207.5	225.7	248.9	212.2	166.0	148.1	148.8
70°	2227.2	1187.8	258.4	166.0	181.3	202.4	234.6	200.9	153.1	135.9	137.6
72.5°	1910.2	929.6	187.7	135.4	151.0	178.5	216.2	187.2	139.9	125.2	124.3
75°	1364.6	588.3	127.2	104.0	117.5	151.3	193.2	171.1	127.7	125.7	118.5
77.5°	697.1	281.1	84.2	76.1	81.8	119.3	162.4	152.8	129.6	103.7	92.4
80°	226.7	103.7	53.1	51.8	54.3	79.4	125.7	125.4	98.2	70.5	62.3
82.5°	72.4	44.6	34.5	33.2	32.0	49.9	87.6	99.2	66.2	44.6	44.4
85°	28.8	26.6	20.3	18.8	13.4	23.5	45.9	66.0	49.4	32.2	33.0
87.5°	10.6	10.6	5.5	4.0	2.9	7.9	12.4	19.8	28.3	16.6	16.4
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)