

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: P959957

Luminaire Tested: **NVN-SB1B-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5023.5 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

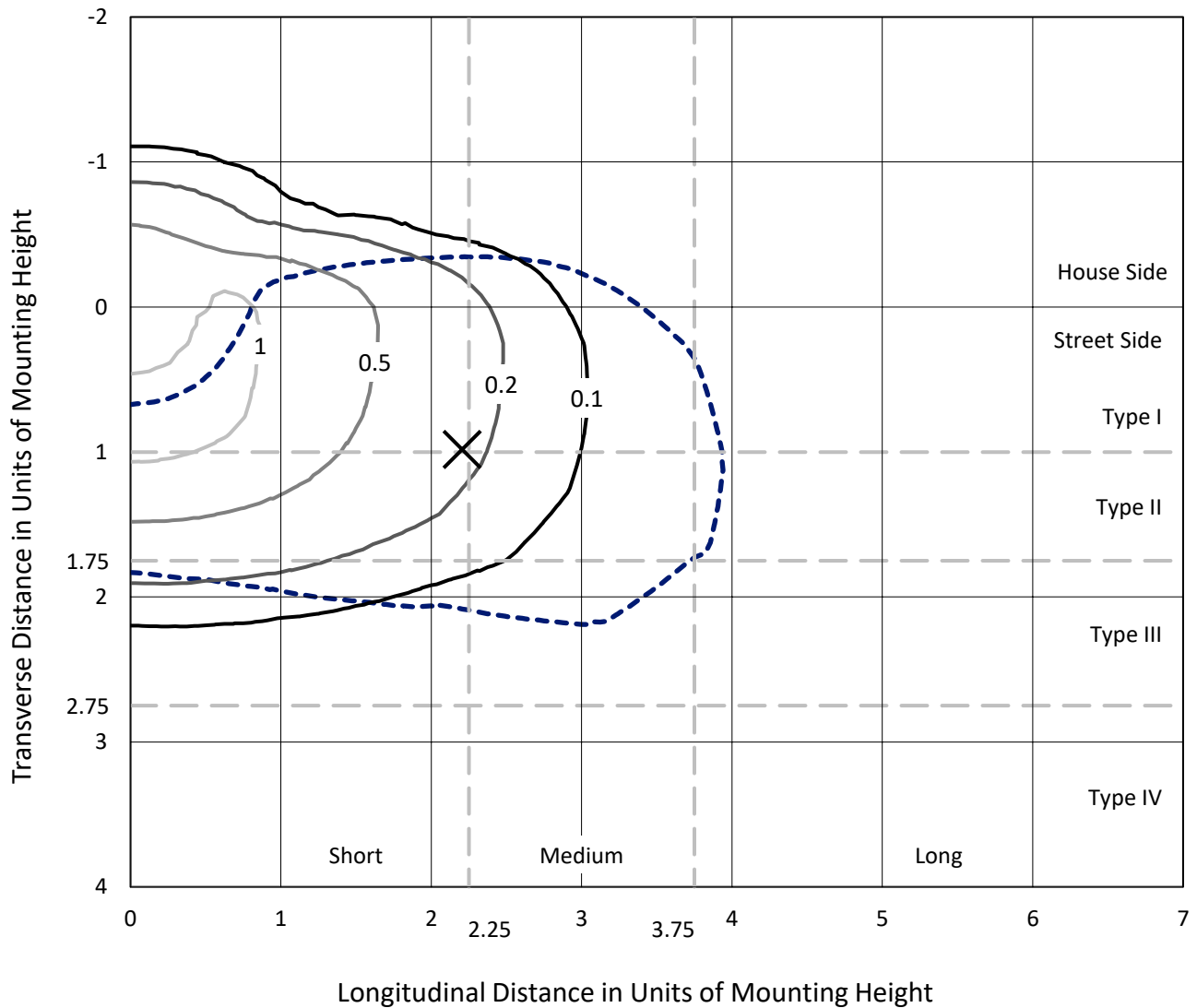
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

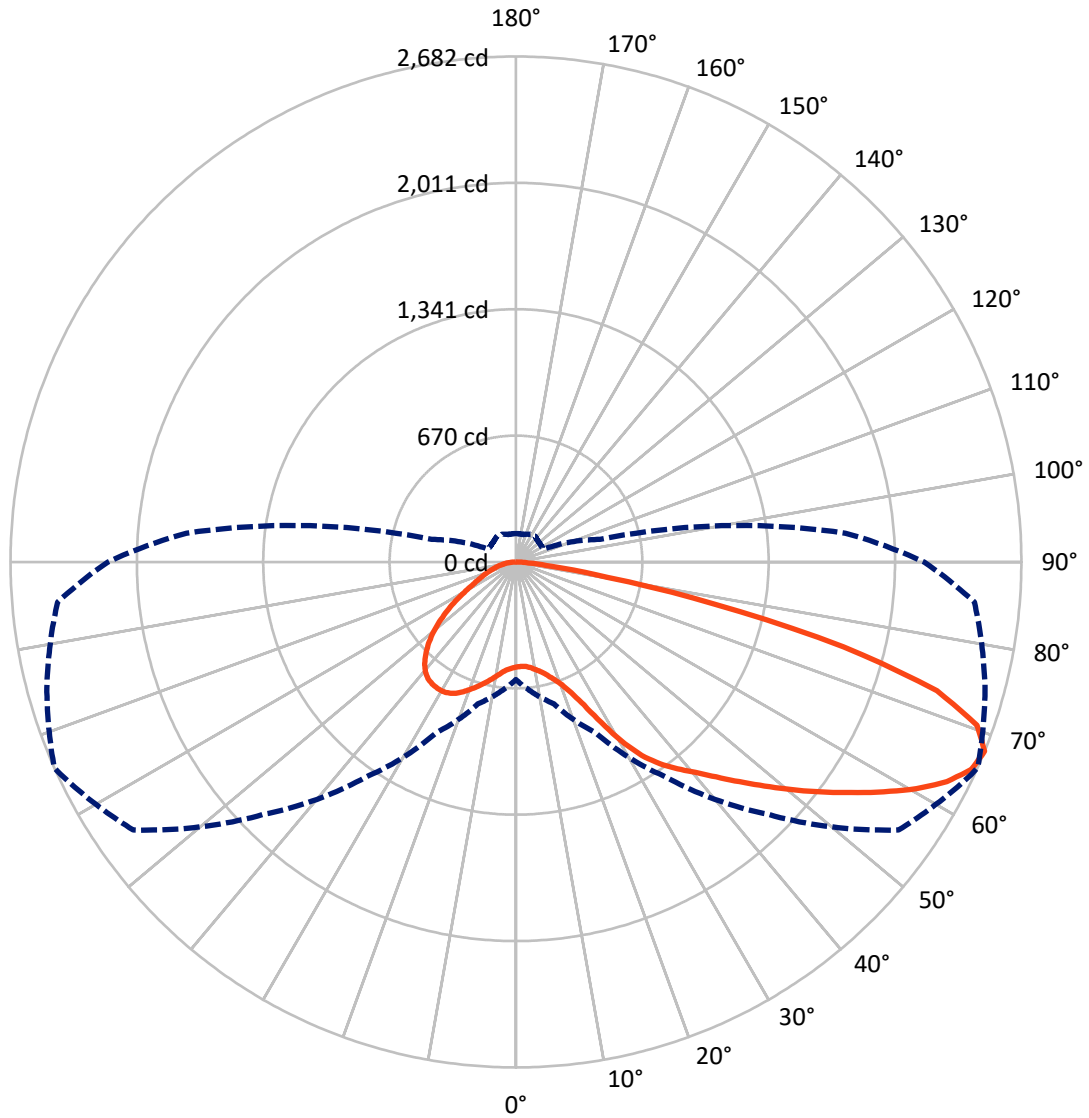
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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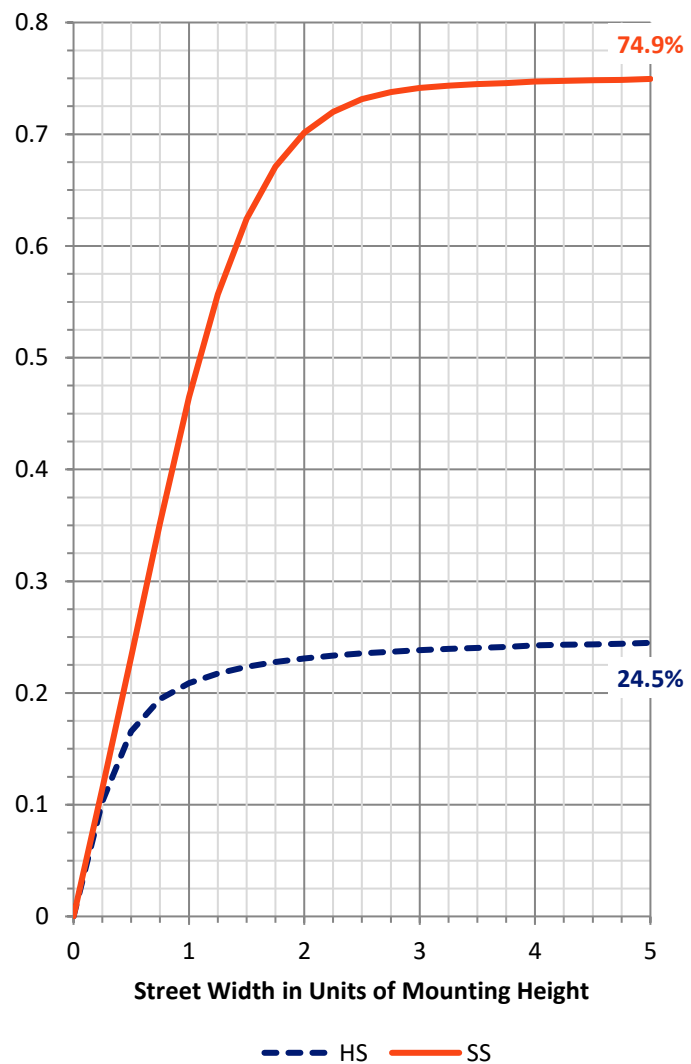
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.1	0.0	1249.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	3774.4	0.0	3774.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	5023.5	0.0	5023.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.1
10°-20°	182.5	3.6
20°-30°	351.8	7.0
30°-40°	616.8	12.3
40°-50°	917.0	18.3
50°-60°	1162.4	23.1
60°-70°	1137.3	22.6
70°-80°	542.5	10.8
80°-90°	58.0	1.2
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°	5023.5	100.0
0°-180°	5023.5	100.0

Coefficient of Utilization



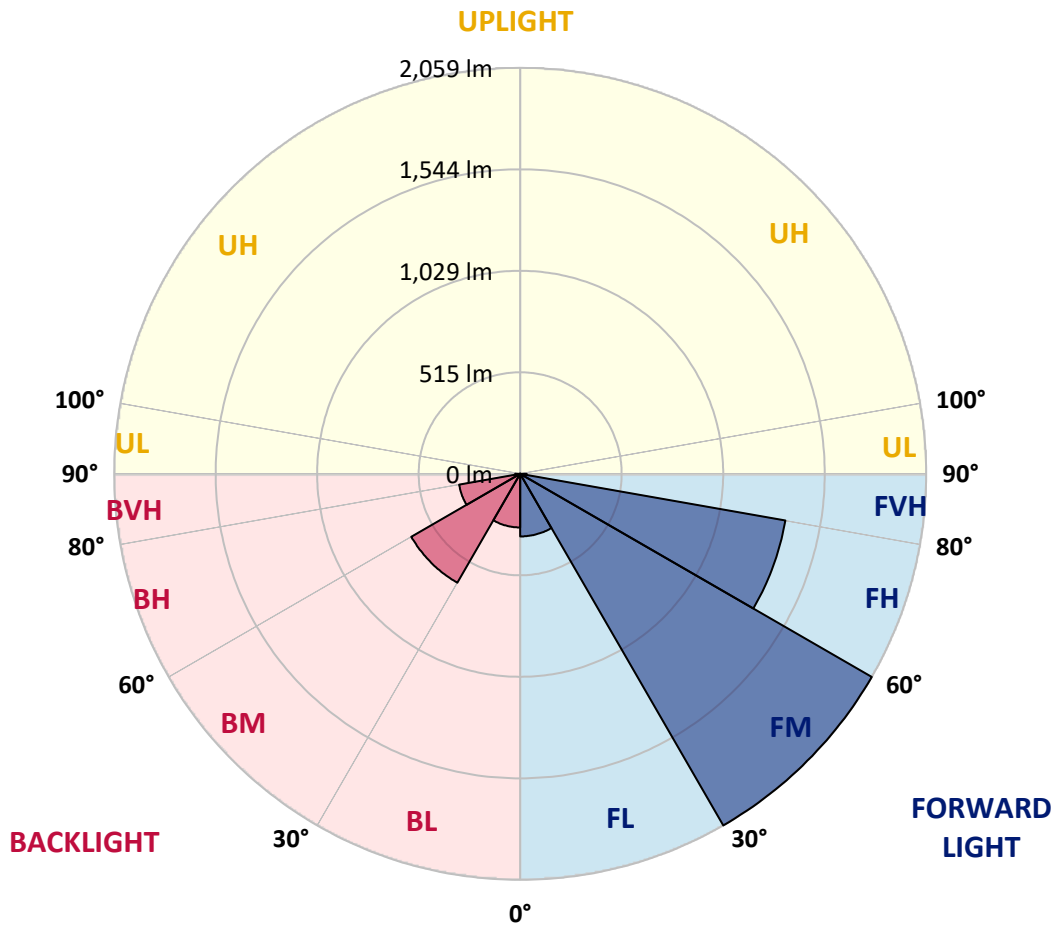
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.4	6.3			
FM (30°-60°)	2058.6	41.0			
FH (60°-80°)	1365.5	27.2			G1/1800
FVH (80°-90°)	32.9	0.7			G1/100
BL (0°-30°)	272.1	5.4	B1/500		
BM (30°-60°)	637.5	12.7	B1/1000		
BH (60°-80°)	314.3	6.3	B1/500		G1/500
BVH (80°-90°)	25.1	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	551.3	554.5	553.7	552.5	552.2	552.7	553.5	554.3	554.0	555.3	557.4
5°	549.8	553.0	552.7	552.7	553.7	555.9	557.2	558.5	557.2	558.7	561.7
7.5°	550.8	553.2	554.3	555.3	558.0	561.9	565.1	568.0	566.4	568.3	571.9
10°	564.3	566.1	567.2	567.2	569.1	573.6	576.7	582.0	580.7	583.5	588.3
12.5°	588.9	590.7	590.7	589.7	590.9	593.9	594.9	600.8	598.4	603.1	607.8
15°	618.9	622.6	619.7	617.9	618.4	621.4	621.0	625.6	623.2	627.1	631.3
17.5°	652.2	656.9	652.2	651.9	650.9	654.1	654.3	658.3	654.1	656.9	659.9
20°	691.6	698.1	694.1	695.5	693.1	694.4	695.8	701.5	694.9	697.1	696.3
22.5°	746.9	754.9	750.6	755.6	754.1	753.1	752.8	763.0	752.8	753.6	745.9
25°	827.7	837.2	829.8	836.7	836.7	840.1	844.1	857.3	840.1	835.1	815.3
27.5°	947.0	956.5	942.0	946.2	944.9	953.4	949.1	981.8	963.4	955.2	915.3
30°	1090.6	1107.5	1080.0	1079.0	1077.7	1091.1	1097.2	1118.8	1100.1	1091.9	1043.9
32.5°	1245.8	1263.5	1230.7	1221.3	1216.3	1224.4	1219.4	1236.9	1223.8	1211.2	1151.8
35°	1410.0	1427.4	1396.3	1377.8	1357.7	1340.6	1322.6	1327.1	1315.0	1295.7	1234.2
37.5°	1565.2	1597.1	1564.1	1544.3	1507.4	1473.8	1423.7	1402.8	1391.4	1373.8	1311.8
40°	1723.2	1741.5	1716.4	1699.6	1659.4	1606.9	1526.6	1482.6	1467.3	1450.1	1397.6
42.5°	1839.7	1857.1	1843.6	1832.0	1800.6	1739.6	1635.9	1580.8	1558.5	1539.2	1494.7
45°	1932.0	1944.9	1936.5	1940.7	1927.3	1868.2	1749.2	1686.0	1663.1	1639.6	1604.5
47.5°	1969.2	1983.0	1996.4	2021.5	2044.5	2000.9	1870.8	1800.1	1775.8	1751.7	1717.2
50°	1965.0	1979.0	2018.1	2071.4	2142.7	2128.1	1999.1	1921.5	1899.0	1871.5	1839.7
52.5°	1931.2	1947.1	1997.2	2085.9	2199.4	2223.4	2129.7	2046.8	2025.7	1993.0	1961.0
55°	1842.5	1852.1	1927.3	2052.9	2212.9	2290.0	2257.8	2180.4	2159.3	2113.7	2078.8
57.5°	1678.1	1691.9	1801.3	1964.0	2179.0	2335.1	2370.2	2320.8	2300.5	2234.8	2198.3
60°	1463.5	1485.4	1610.8	1814.6	2093.0	2334.8	2472.3	2458.9	2442.0	2354.1	2316.1
62.5°	1220.7	1246.1	1366.6	1603.4	1942.6	2268.5	2536.2	2574.5	2565.8	2464.1	2415.6
65°	937.5	954.9	1075.0	1330.2	1708.5	2126.3	2543.5	2653.4	2655.0	2547.8	2467.6
67.5°	624.2	674.3	778.6	998.2	1394.9	1893.8	2478.7	2666.3	2681.6	2576.5	2441.4
70°	304.6	370.5	472.7	648.7	998.2	1537.2	2308.9	2560.2	2594.3	2492.6	2285.8
72.5°	126.4	147.8	203.5	320.1	573.0	1037.3	1967.9	2272.5	2335.6	2208.7	1921.8
75°	85.3	92.4	116.4	164.2	261.1	511.5	1419.2	1694.5	1796.1	1668.1	1363.6
77.5°	65.7	70.2	84.8	114.8	155.2	193.4	759.6	1021.2	1073.7	994.0	709.5
80°	51.8	55.1	63.3	83.6	110.1	103.4	258.9	462.7	493.0	413.6	228.1
82.5°	44.9	46.2	45.4	56.8	73.1	60.5	85.0	170.8	188.5	136.7	74.4
85°	32.5	36.2	37.7	35.1	38.8	30.6	34.8	60.5	66.5	59.3	41.9
87.5°	13.2	19.6	24.0	22.7	14.2	8.7	10.9	17.7	20.3	22.1	13.7
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°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	557.7	559.5	560.9	562.4	563.5	565.1	568.3	570.1	570.4	571.6	571.4
5°	562.7	565.4	568.3	572.5	577.3	581.2	587.2	591.5	593.1	594.4	594.1
7.5°	573.6	577.3	582.5	589.9	596.8	602.1	609.5	614.5	619.5	621.4	621.6
10°	589.7	594.9	602.6	612.6	620.0	626.9	634.5	638.8	643.7	645.9	646.9
12.5°	609.7	615.2	625.2	639.3	646.2	650.9	653.5	652.4	653.5	655.4	655.9
15°	632.6	638.8	650.1	665.1	669.8	665.6	659.9	654.6	653.7	654.3	656.1
17.5°	659.9	664.3	677.5	690.2	686.7	669.3	656.7	648.2	644.0	642.7	644.5
20°	697.8	697.8	708.7	716.6	693.6	664.1	644.3	630.6	621.9	618.2	617.4
22.5°	744.0	739.8	746.7	741.2	692.3	649.3	621.9	598.1	584.9	579.6	578.8
25°	802.7	797.7	795.8	761.5	682.9	625.8	581.2	552.5	540.8	537.9	538.4
27.5°	891.0	878.4	854.3	772.5	665.4	588.9	533.7	507.1	500.4	500.7	501.5
30°	1008.8	983.5	924.6	774.4	636.9	536.6	485.1	466.1	463.0	464.2	468.7
32.5°	1117.8	1093.8	996.4	766.0	593.1	485.3	441.6	428.9	424.1	425.7	427.8
35°	1203.2	1196.7	1062.9	754.1	539.3	437.4	402.5	391.7	382.4	380.4	381.9
37.5°	1284.0	1281.5	1112.7	737.5	486.0	403.3	371.0	356.8	343.4	336.0	336.3
40°	1372.8	1370.1	1145.5	711.9	438.7	373.7	342.9	324.1	307.5	294.1	295.3
42.5°	1472.5	1456.9	1161.0	675.2	398.5	348.7	319.9	294.6	272.6	260.2	261.1
45°	1581.5	1546.4	1160.8	628.4	364.8	325.7	295.3	259.4	239.1	227.6	227.0
47.5°	1697.1	1631.9	1146.6	576.7	332.0	300.3	257.4	229.9	216.5	209.3	207.8
50°	1816.4	1712.0	1122.3	517.3	298.5	271.6	233.6	214.8	204.6	197.9	195.6
52.5°	1928.6	1784.5	1093.0	450.0	264.4	243.6	223.0	208.5	197.7	190.3	187.2
55°	2032.9	1847.0	1051.5	381.1	236.8	224.9	218.0	205.9	193.4	184.8	181.3
57.5°	2125.5	1887.7	980.0	316.4	217.0	212.0	212.7	201.4	187.2	179.8	175.0
60°	2202.6	1917.5	874.1	256.6	200.9	199.3	204.6	192.9	176.3	167.9	164.2
62.5°	2248.7	1917.0	744.4	210.1	187.2	187.7	193.7	182.3	165.5	157.5	155.2
65°	2244.9	1870.0	601.8	179.8	173.9	174.5	182.3	170.8	156.5	151.8	151.5
67.5°	2165.3	1755.4	461.7	159.9	159.4	161.7	171.1	162.9	151.0	150.5	151.2
70°	1950.3	1517.6	332.6	144.1	144.4	147.8	159.9	157.8	148.1	149.1	148.8
72.5°	1563.8	1157.1	223.2	127.5	127.7	133.2	149.3	153.9	145.1	159.2	161.2
75°	1041.5	721.6	143.6	109.8	110.1	117.2	140.1	146.3	137.2	158.7	159.9
77.5°	500.4	324.4	104.0	92.4	92.4	99.0	121.2	130.9	117.0	123.3	113.0
80°	172.9	122.0	81.8	74.4	72.9	77.3	102.2	113.5	100.9	92.9	87.1
82.5°	68.1	63.3	65.7	57.8	52.5	55.5	79.4	93.7	74.2	67.0	66.7
85°	39.1	41.2	46.4	38.2	30.3	34.0	58.3	67.3	56.0	49.4	50.4
87.5°	10.6	14.6	21.4	19.8	13.7	14.6	27.7	37.2	32.2	24.8	25.6
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)