

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: P959938

Luminaire Tested: **NVN-SB1B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-827-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4990.7 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

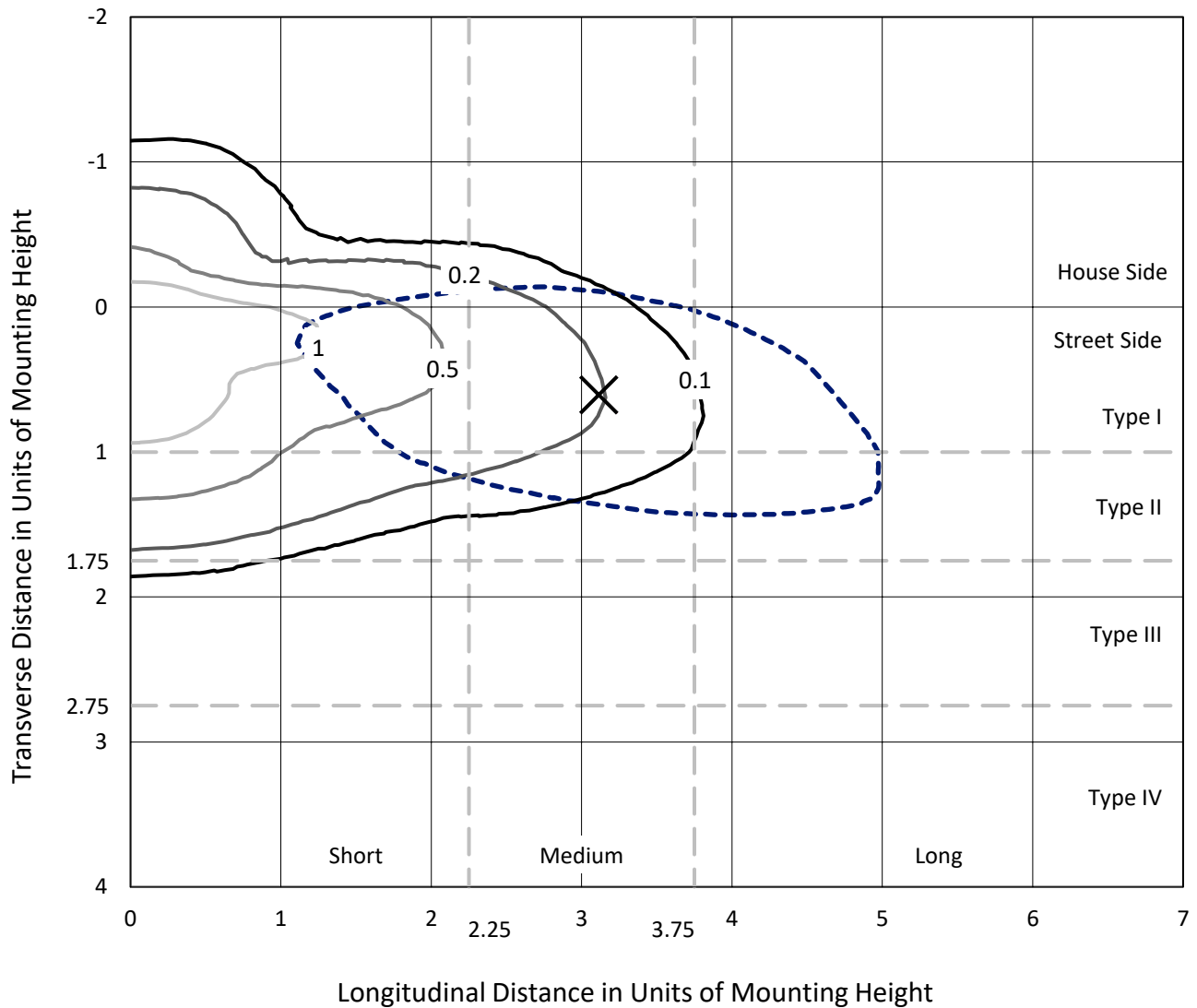
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

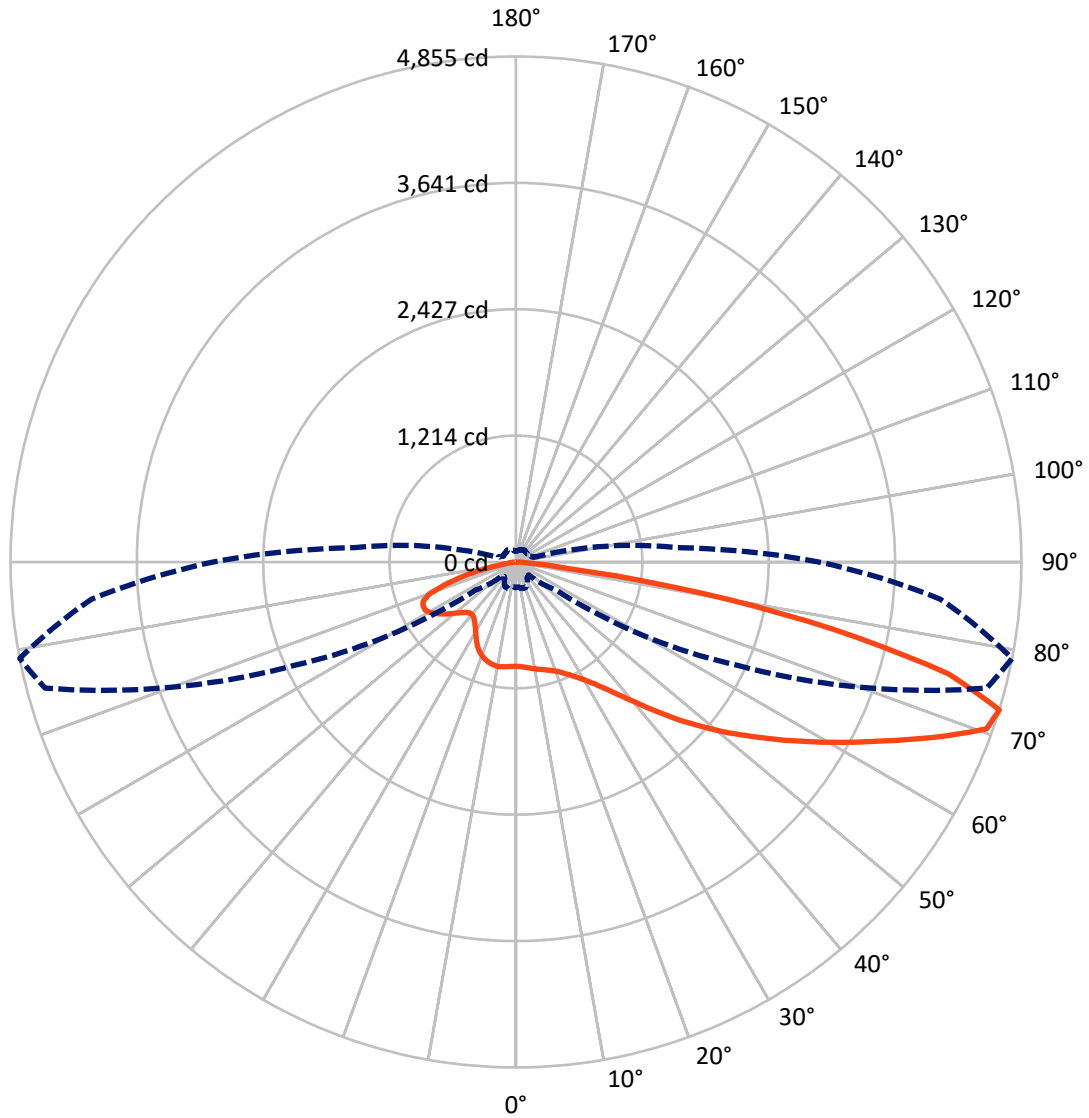
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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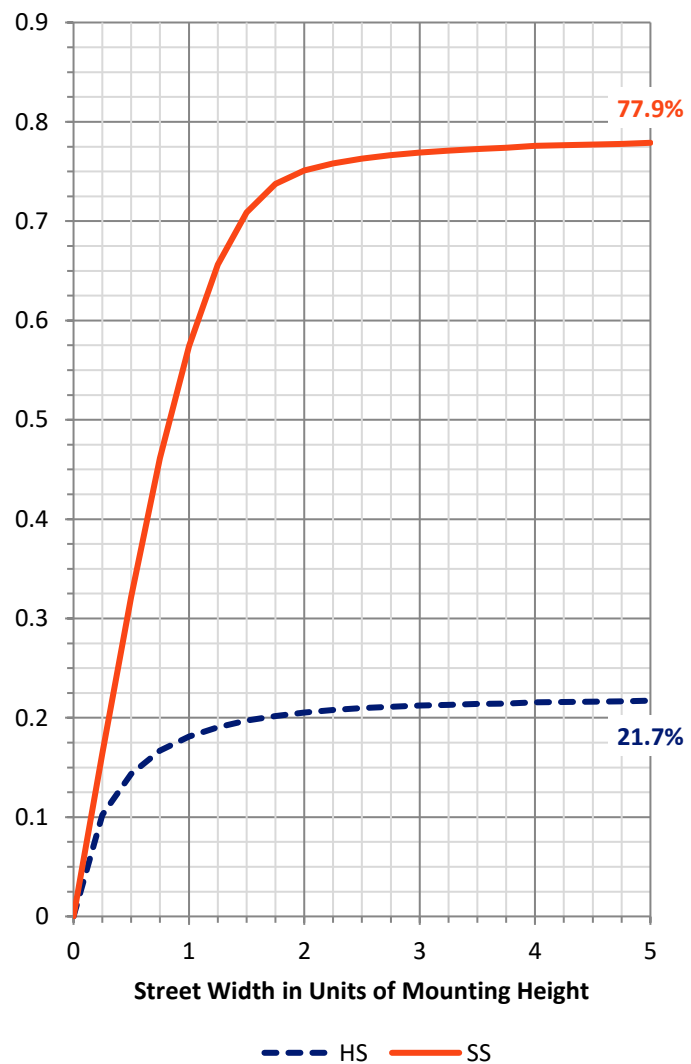
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1098.2	0.0	1098.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	3892.5	0.0	3892.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	4990.7	0.0	4990.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.8
10°-20°	237.8	4.8
20°-30°	383.6	7.7
30°-40°	575.8	11.5
40°-50°	816.8	16.4
50°-60°	1031.5	20.7
60°-70°	1047.6	21.0
70°-80°	714.0	14.3
80°-90°	92.6	1.9
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°	4990.7	100.0
0°-180°	4990.7	100.0

Coefficient of Utilization



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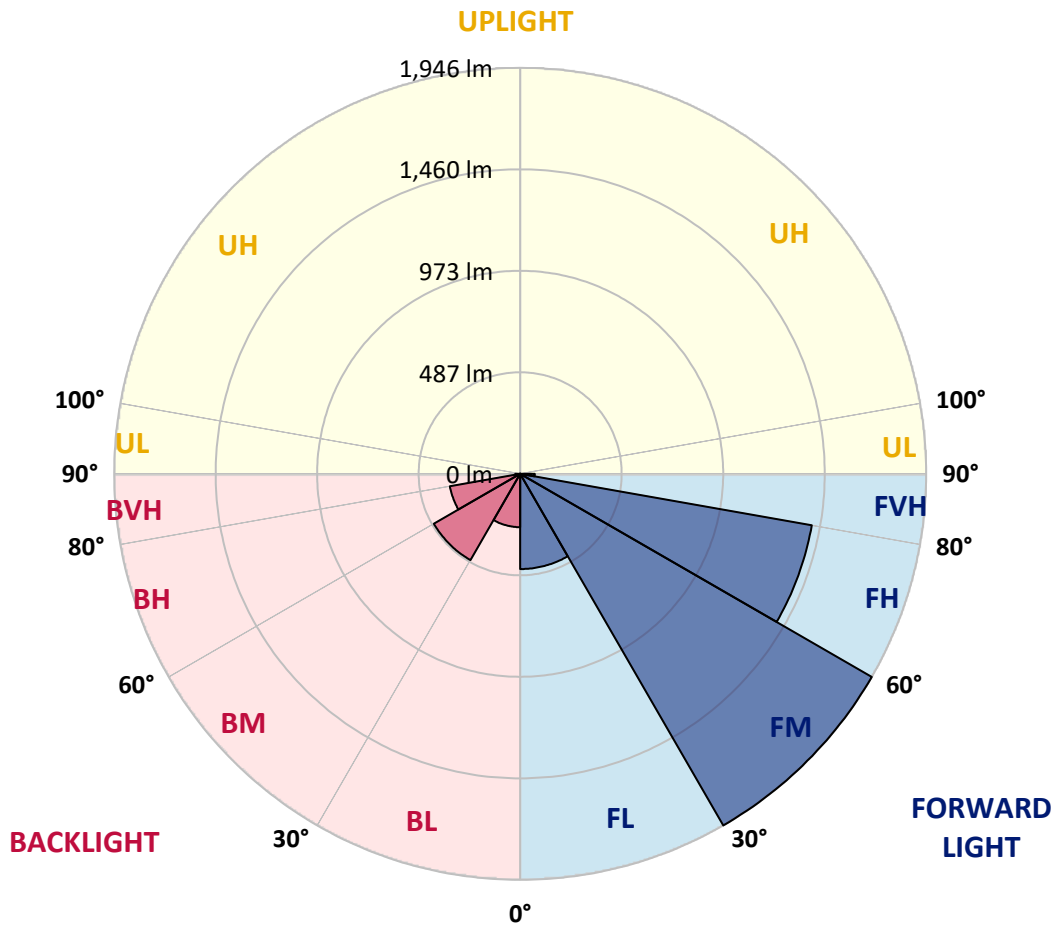
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.5	9.1			
FM (30°-60°)	1946.5	39.0			
FH (60°-80°)	1419.7	28.4			G1/1800
FVH (80°-90°)	69.8	1.4			G1/100
BL (0°-30°)	255.8	5.1	B1/500		
BM (30°-60°)	477.6	9.6	B1/1000		
BH (60°-80°)	342.0	6.9	B1/500		G1/500
BVH (80°-90°)	22.9	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1002.3	997.6	1000.5	999.5	1000.8	1002.3	1002.9	1003.7	1006.3	1006.0	1005.8
5°	1000.3	995.5	999.5	998.1	1001.5	1005.3	1008.4	1011.4	1015.6	1017.4	1014.7
7.5°	995.8	992.6	996.6	1000.5	1006.9	1012.4	1016.9	1023.5	1029.5	1030.6	1032.5
10°	969.6	967.3	976.5	986.8	1004.2	1019.3	1029.0	1036.7	1043.2	1044.4	1046.9
12.5°	942.5	939.5	949.9	963.8	992.1	1019.3	1039.9	1049.9	1055.6	1059.1	1063.1
15°	938.0	935.6	941.4	953.6	977.0	1012.1	1047.2	1065.7	1070.7	1074.7	1076.2
17.5°	959.6	955.1	957.5	961.8	975.5	1005.5	1053.1	1083.6	1091.3	1095.5	1095.5
20°	1009.7	1003.5	999.7	991.3	988.9	1006.6	1052.6	1105.4	1115.4	1120.6	1122.0
22.5°	1076.6	1072.4	1064.4	1043.0	1019.8	1019.6	1062.5	1133.0	1151.8	1156.8	1153.6
25°	1157.3	1151.0	1140.9	1111.9	1067.3	1045.1	1079.4	1168.4	1199.9	1201.2	1191.9
27.5°	1250.3	1240.8	1227.0	1188.8	1128.5	1085.3	1105.4	1209.1	1255.0	1254.5	1235.4
30°	1348.2	1338.6	1324.2	1277.7	1201.9	1139.4	1141.2	1252.9	1320.5	1317.5	1285.1
32.5°	1419.7	1412.7	1409.7	1373.8	1286.4	1203.2	1182.4	1301.4	1401.3	1398.6	1353.2
35°	1474.7	1465.4	1468.8	1450.6	1378.5	1274.8	1232.9	1359.3	1499.5	1499.2	1442.7
37.5°	1529.0	1520.9	1523.8	1511.6	1463.8	1365.6	1294.4	1430.1	1621.1	1627.0	1550.9
40°	1578.7	1570.0	1581.6	1570.2	1530.1	1462.3	1364.3	1510.0	1762.2	1773.2	1681.9
42.5°	1608.5	1601.7	1620.9	1621.1	1587.6	1543.9	1441.1	1598.2	1925.3	1950.1	1843.0
45°	1618.8	1616.4	1645.4	1651.5	1638.6	1591.1	1510.2	1694.3	2101.0	2145.4	2026.4
47.5°	1607.7	1603.2	1643.4	1665.7	1676.1	1613.2	1567.5	1798.3	2280.6	2345.5	2226.5
50°	1551.7	1543.0	1602.7	1649.9	1686.6	1627.8	1625.3	1918.4	2484.7	2555.6	2427.6
52.5°	1451.2	1444.5	1512.4	1594.5	1663.4	1634.9	1690.3	2049.6	2678.4	2770.3	2633.8
55°	1322.6	1313.8	1388.6	1495.8	1605.6	1632.5	1755.3	2196.4	2907.0	3000.3	2846.8
57.5°	1118.8	1101.4	1195.9	1322.6	1511.4	1629.6	1822.9	2342.3	3139.4	3251.0	3074.2
60°	821.5	795.7	911.5	1061.8	1327.1	1601.4	1906.5	2506.0	3418.2	3518.7	3322.3
62.5°	478.4	463.3	539.0	679.3	1000.3	1435.0	1953.5	2696.4	3692.2	3797.7	3566.3
65°	371.5	367.3	373.8	384.7	556.8	1074.4	1808.6	2882.0	4040.7	4114.6	3820.5
67.5°	339.8	336.6	339.5	319.2	282.5	598.5	1430.8	2928.9	4414.0	4458.8	4043.0
70°	302.0	298.3	307.8	290.4	222.3	272.1	924.4	2758.4	4710.9	4795.2	4212.2
72.5°	246.0	241.8	264.0	256.0	187.2	174.8	464.3	2353.2	4679.7	4854.5	4091.1
75°	189.0	186.7	213.0	219.7	152.6	137.6	222.8	1749.2	4118.2	4294.3	3525.8
77.5°	146.8	144.9	158.4	182.4	123.0	106.7	137.0	1109.6	3103.5	3134.3	2429.8
80°	110.1	104.8	117.3	141.2	95.8	77.9	93.0	647.1	1961.7	1778.3	1057.5
82.5°	68.9	66.2	76.6	94.2	67.5	53.6	60.5	357.4	786.2	463.0	204.1
85°	39.4	38.2	41.7	53.8	36.7	30.9	34.5	157.8	143.6	98.7	61.5
87.5°	15.9	15.3	19.0	24.0	13.4	11.4	12.1	38.0	31.7	29.3	20.3
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°	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.7	1004.7	1001.0	995.3	988.6	984.4	977.5	975.7	968.6	966.5	969.9
5°	1016.9	1014.7	1003.5	987.1	964.6	944.0	921.4	907.0	887.0	879.9	885.2
7.5°	1032.2	1026.4	1006.9	971.0	923.9	877.8	829.7	793.2	758.4	746.0	747.6
10°	1046.2	1038.0	1004.7	941.9	860.6	780.6	704.1	650.5	609.8	593.2	596.9
12.5°	1060.2	1045.1	990.8	893.6	770.6	662.0	580.6	538.8	513.7	493.6	500.3
15°	1073.4	1052.3	969.1	828.9	671.9	561.8	501.5	468.3	448.2	435.0	437.5
17.5°	1088.7	1058.3	936.6	746.8	577.9	492.3	443.2	423.2	419.2	417.6	418.7
20°	1110.1	1063.8	893.9	655.0	508.7	436.9	411.5	409.7	409.5	408.7	411.3
22.5°	1133.0	1070.5	837.4	571.5	449.9	402.3	397.8	394.1	391.8	391.4	394.4
25°	1160.2	1072.6	766.6	503.2	399.6	385.9	380.7	375.2	373.5	373.5	375.2
27.5°	1186.6	1065.5	684.3	443.7	371.5	370.9	364.1	362.2	361.9	362.7	364.8
30°	1213.0	1052.0	602.4	388.9	355.1	355.1	352.7	354.0	355.1	357.7	359.6
32.5°	1248.7	1037.7	534.0	348.2	340.8	338.1	340.5	343.2	344.2	347.7	350.5
35°	1300.9	1027.7	479.7	326.1	326.1	322.6	323.9	323.4	321.0	319.4	323.1
37.5°	1370.1	1027.2	434.8	315.7	313.6	313.1	313.3	310.0	300.7	289.6	289.9
40°	1453.2	1041.4	400.2	308.6	307.0	310.2	308.6	299.4	274.0	254.7	254.2
42.5°	1565.0	1082.1	378.0	299.9	304.6	308.6	302.3	270.3	253.2	240.3	239.7
45°	1696.4	1148.1	366.6	290.7	300.1	304.9	274.3	260.2	246.6	231.0	229.9
47.5°	1845.3	1231.2	364.1	282.0	290.1	293.0	262.4	256.0	240.5	223.6	222.3
50°	2007.4	1329.7	371.2	271.6	275.6	265.6	258.4	252.7	236.6	219.9	218.0
52.5°	2175.0	1438.2	385.4	257.7	261.1	250.0	256.9	251.8	234.1	211.8	210.1
55°	2339.8	1547.5	399.1	241.3	246.3	236.1	252.4	248.7	223.3	198.0	196.7
57.5°	2507.1	1656.3	412.7	226.7	232.1	222.5	245.3	240.3	211.2	185.3	184.8
60°	2681.1	1761.9	418.9	212.8	216.5	210.1	234.4	225.7	197.4	172.4	171.6
62.5°	2844.0	1849.8	408.7	198.7	201.2	198.5	220.2	208.6	183.8	157.8	157.6
65°	3007.4	1902.1	377.0	185.0	185.6	184.3	200.1	190.0	167.6	145.2	143.6
67.5°	3155.5	1931.3	326.6	170.3	168.9	168.4	181.3	170.0	152.0	132.5	130.9
70°	3186.9	1856.9	249.5	152.8	152.8	151.5	160.7	149.1	134.9	119.1	118.5
72.5°	2910.8	1562.0	177.1	133.0	135.2	132.5	140.2	130.4	117.5	106.9	103.7
75°	2347.1	1145.4	128.8	112.7	116.4	111.9	119.1	112.2	101.1	100.9	90.8
77.5°	1612.7	708.3	93.5	93.0	95.5	89.8	98.0	94.2	84.3	79.7	74.7
80°	688.2	282.5	68.1	71.9	71.9	66.5	76.1	77.1	68.4	66.2	66.2
82.5°	137.0	80.3	47.8	49.4	46.4	44.9	53.8	59.7	82.4	91.6	91.8
85°	41.2	29.5	28.8	27.0	23.8	24.0	31.7	60.0	73.9	42.2	36.4
87.5°	11.4	7.4	7.7	6.0	5.0	6.6	10.9	45.4	24.8	10.6	9.0
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)