

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: P959940

Luminaire Tested: **NVN-SB1B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4906.7 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

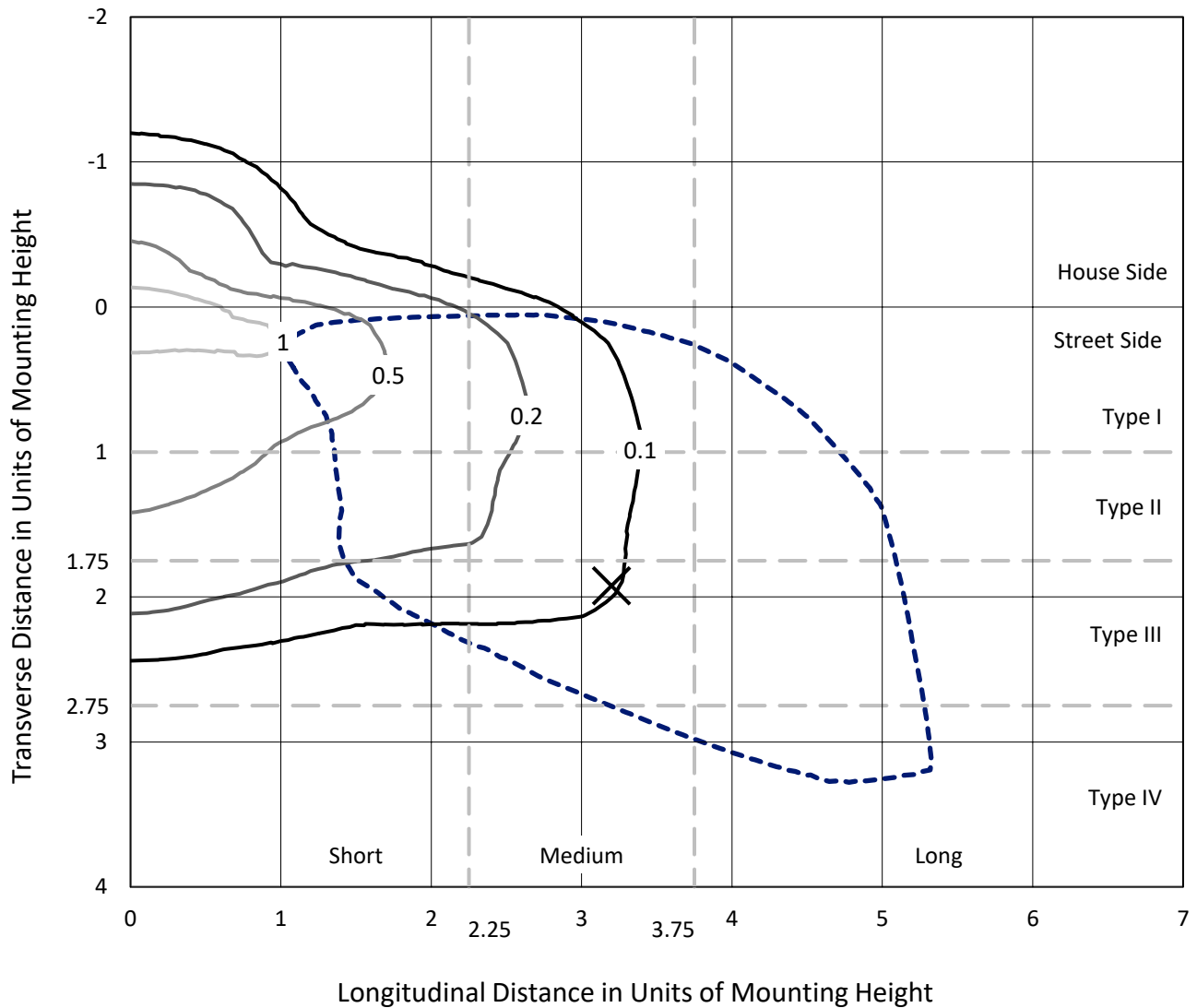
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

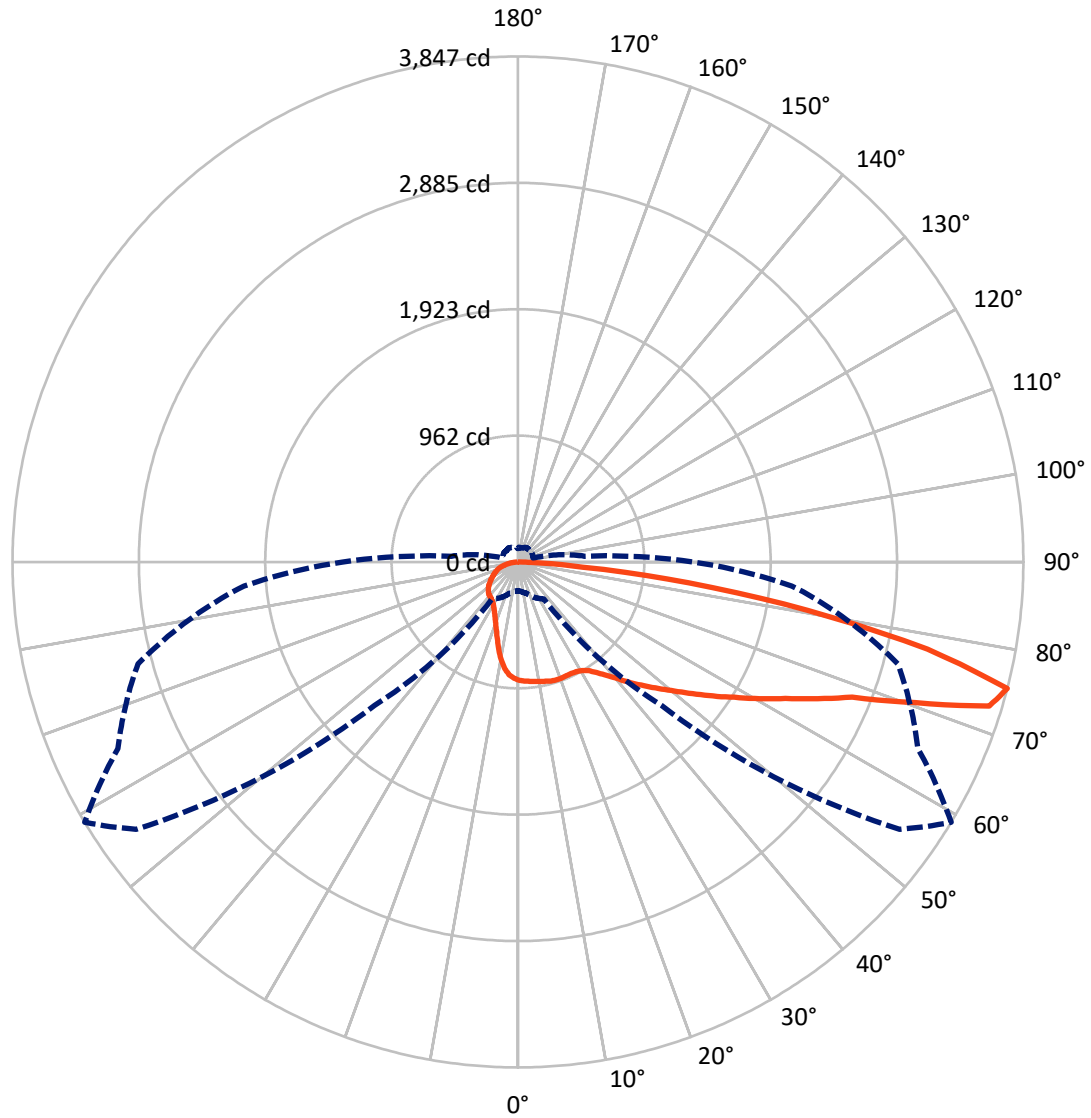
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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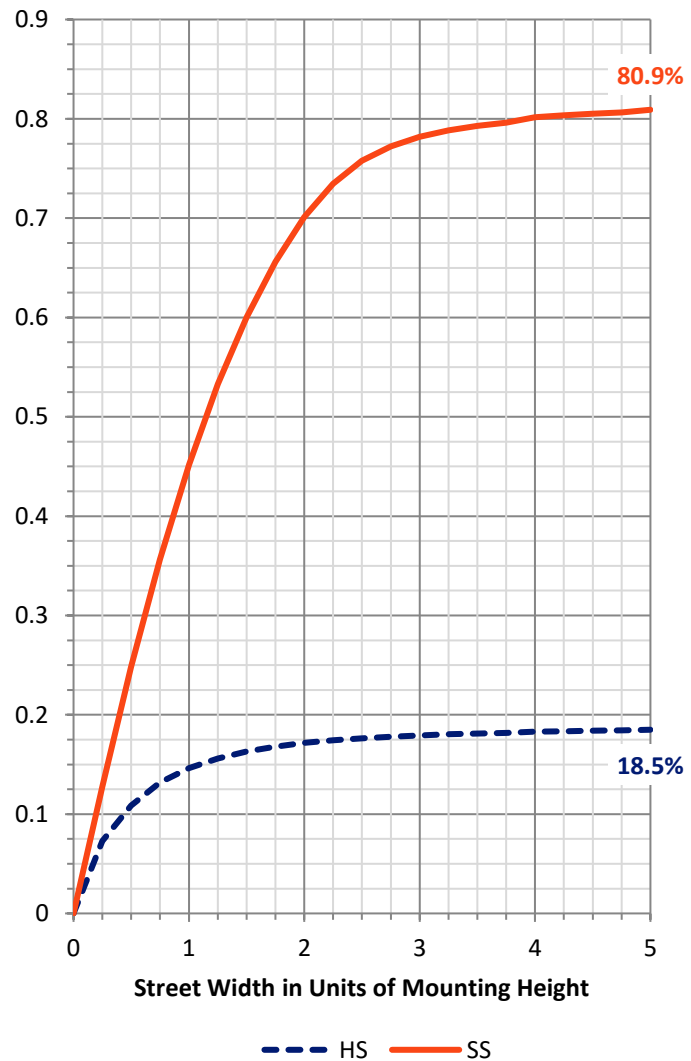
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.3	0.0	920.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3986.4	0.0	3986.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	4906.7	0.0	4906.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.6
10°-20°	206.4	4.2
20°-30°	313.5	6.4
30°-40°	466.0	9.5
40°-50°	693.1	14.1
50°-60°	940.8	19.2
60°-70°	1148.5	23.4
70°-80°	901.4	18.4
80°-90°	156.1	3.2
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°	4906.7	100.0
0°-180°	4906.7	100.0

Coefficient of Utilization



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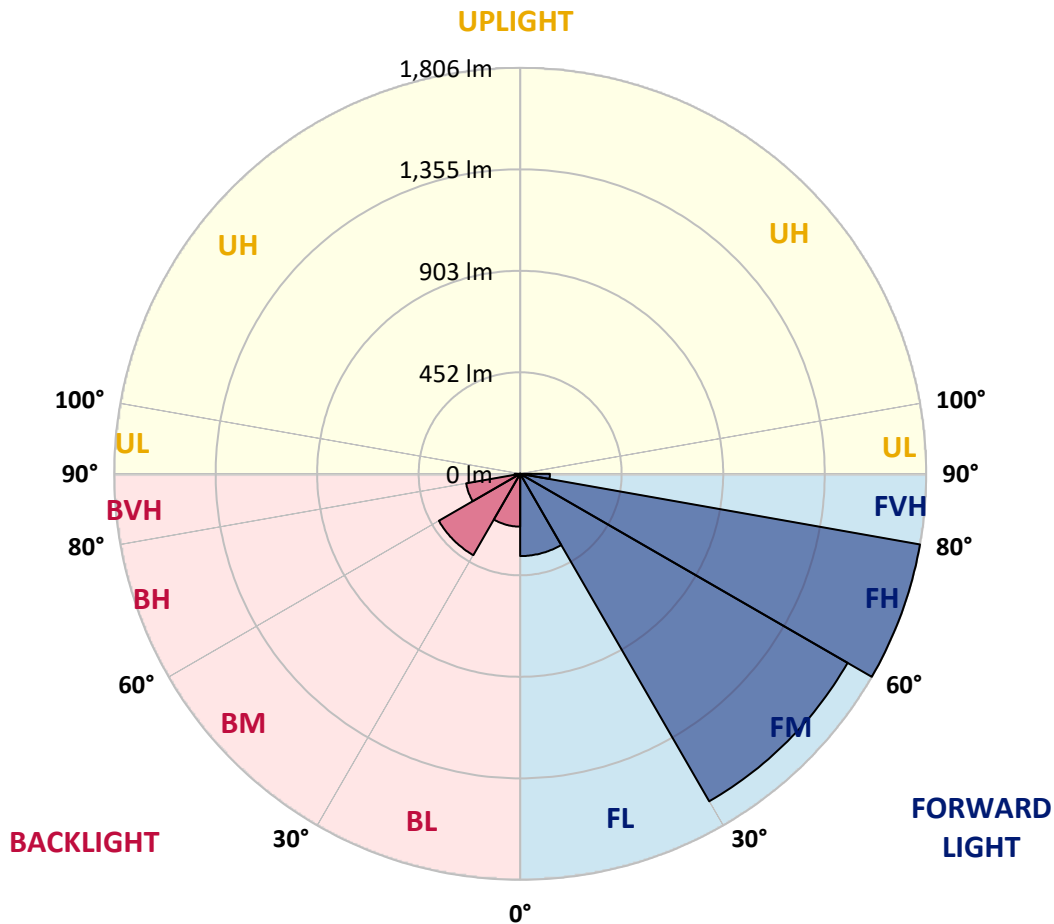
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.8	7.5			
FM (30°-60°)	1682.2	34.3			
FH (60°-80°)	1806.1	36.8			G2/5000
FVH (80°-90°)	132.2	2.7			G2/225
BL (0°-30°)	234.8	4.8	B1/500		
BM (30°-60°)	417.7	8.5	B1/1000		
BH (60°-80°)	243.8	5.0	B1/500		G1/500
BVH (80°-90°)	23.9	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	908.3	905.1	908.3	906.9	906.4	905.4	905.6	907.4	906.4	907.7	903.2
5°	902.2	900.4	903.5	902.7	906.2	906.7	910.1	912.2	913.6	913.8	910.4
7.5°	892.2	890.3	894.8	898.5	905.9	908.0	915.1	918.6	920.4	923.5	918.6
10°	855.5	854.6	865.8	879.8	897.2	908.0	918.8	924.7	927.5	936.0	930.2
12.5°	790.6	791.6	806.2	833.0	867.9	902.7	923.0	931.5	936.0	946.6	943.9
15°	728.5	728.3	744.0	772.8	821.6	879.4	925.2	939.7	947.3	962.9	960.8
17.5°	692.6	691.6	702.6	724.6	770.0	843.9	919.8	944.1	960.5	980.1	978.3
20°	686.0	683.9	689.7	700.5	732.8	804.8	906.2	944.1	971.1	996.4	995.4
22.5°	710.0	706.6	704.3	702.9	717.2	772.5	890.6	941.0	986.7	1019.9	1018.0
25°	758.3	753.1	740.9	729.1	724.8	758.1	876.9	940.2	1009.9	1051.5	1044.7
27.5°	836.5	829.8	805.3	776.8	751.2	765.5	870.7	944.9	1035.5	1085.1	1071.4
30°	933.4	926.2	895.3	851.5	805.5	792.9	878.4	959.0	1068.3	1129.8	1102.8
32.5°	1020.2	1012.3	985.8	941.3	879.2	840.4	902.7	985.6	1119.7	1191.8	1150.0
35°	1097.3	1088.0	1064.3	1023.1	969.5	907.2	946.6	1032.9	1192.8	1292.6	1214.2
37.5°	1172.7	1161.9	1136.0	1092.5	1055.0	996.2	1007.0	1093.6	1290.0	1415.0	1299.2
40°	1257.2	1241.7	1210.2	1167.2	1130.8	1100.4	1086.4	1168.0	1388.7	1551.7	1405.3
42.5°	1339.1	1324.3	1286.8	1250.1	1204.4	1195.7	1178.5	1255.1	1496.6	1702.0	1513.0
45°	1427.2	1409.5	1364.1	1317.6	1288.8	1259.0	1267.7	1342.2	1602.5	1855.0	1626.0
47.5°	1509.8	1490.0	1436.4	1384.7	1368.9	1312.4	1349.6	1438.0	1712.6	2010.2	1737.9
50°	1554.4	1534.9	1490.2	1443.6	1431.1	1378.1	1438.3	1543.3	1827.9	2164.9	1845.3
52.5°	1591.6	1570.5	1512.2	1486.4	1482.7	1449.7	1547.5	1663.7	1943.2	2301.6	1949.0
55°	1631.2	1607.7	1533.3	1510.0	1526.9	1529.9	1677.2	1800.2	2065.2	2435.0	2046.9
57.5°	1676.9	1647.1	1553.6	1530.1	1570.3	1623.8	1826.0	1941.7	2185.0	2558.5	2134.0
60°	1720.0	1689.8	1592.6	1562.1	1616.9	1732.9	1996.8	2112.9	2320.7	2668.6	2216.5
62.5°	1728.4	1703.6	1623.8	1623.6	1680.3	1860.1	2199.0	2285.9	2439.2	2777.3	2290.4
65°	1582.1	1566.6	1519.4	1621.2	1771.1	2043.2	2424.1	2507.0	2589.9	2872.4	2355.2
67.5°	1204.2	1206.2	1202.8	1399.4	1697.7	2306.5	2750.2	2743.8	2776.0	2979.0	2430.0
70°	550.6	563.0	643.8	966.1	1360.2	2336.8	3289.1	3207.0	3009.6	3117.0	2494.6
72.5°	297.5	307.0	340.0	468.0	817.7	2077.6	3691.9	3750.3	3320.3	3209.9	2423.6
75°	218.3	223.6	246.5	297.5	343.4	1544.2	3547.5	3846.8	3359.0	2993.2	2092.8
77.5°	163.4	165.7	184.5	235.7	175.8	814.1	2834.6	3185.9	2875.5	2459.3	1546.0
80°	118.5	121.2	135.1	176.8	123.3	297.8	1946.4	2236.2	1969.3	1567.6	770.5
82.5°	81.8	82.9	89.0	120.3	86.1	115.6	1104.3	1311.3	1099.4	550.1	208.0
85°	49.4	50.6	53.3	70.2	48.8	54.9	476.7	493.0	328.6	131.4	64.7
87.5°	20.3	21.6	23.8	29.5	19.3	15.3	78.6	98.7	61.5	38.5	20.1
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°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	901.9	900.1	895.0	888.2	881.9	873.9	870.5	867.7	865.0	860.0	857.6
5°	907.4	902.4	889.0	871.6	851.8	830.1	809.0	794.5	782.1	772.8	765.2
7.5°	915.9	906.4	881.9	846.2	800.8	754.4	712.4	682.5	660.1	652.0	637.8
10°	924.7	913.3	870.5	807.7	729.3	657.7	602.1	571.4	553.5	547.7	538.7
12.5°	934.9	918.3	852.8	754.1	649.3	570.9	522.3	504.4	495.2	492.0	492.8
15°	950.0	922.5	826.2	687.1	573.1	507.6	476.2	463.8	459.0	458.8	459.8
17.5°	961.3	923.3	784.7	615.3	514.4	469.3	443.4	438.7	441.9	446.6	448.4
20°	974.0	916.1	730.3	549.8	473.2	435.8	425.0	428.1	435.8	442.7	445.1
22.5°	983.0	903.2	664.6	498.9	437.7	416.6	415.9	422.6	426.8	430.3	432.1
25°	990.9	881.3	594.9	456.1	408.4	404.9	410.7	408.6	405.7	408.6	410.4
27.5°	996.7	846.8	532.7	418.6	387.8	397.0	393.6	388.8	388.6	390.1	392.8
30°	994.9	800.5	481.4	383.0	373.2	382.2	374.0	373.2	372.5	373.2	376.2
32.5°	994.9	748.0	442.1	358.4	364.0	360.6	359.8	357.9	354.8	354.4	357.9
35°	1000.4	695.6	408.4	345.2	356.3	348.2	348.7	344.2	337.6	334.5	337.6
37.5°	1011.8	653.3	374.8	339.0	342.9	342.7	340.5	332.8	321.2	311.2	314.7
40°	1039.1	640.8	351.9	336.0	336.5	339.7	334.2	319.4	292.9	276.6	278.7
42.5°	1082.2	661.7	346.9	328.9	332.3	335.5	324.6	290.4	271.6	261.9	261.9
45°	1136.8	698.1	357.6	318.6	322.3	327.8	295.6	279.3	270.8	271.1	272.4
47.5°	1206.0	736.5	377.7	309.7	307.8	311.0	276.3	266.3	254.7	257.6	265.0
50°	1286.0	775.2	396.7	297.5	291.7	281.4	263.9	254.4	239.6	232.8	234.6
52.5°	1372.6	812.7	404.4	282.7	274.3	262.4	255.5	243.8	225.9	214.6	214.3
55°	1454.7	846.8	396.0	265.0	256.9	247.5	246.5	239.4	220.2	204.3	204.3
57.5°	1532.3	875.2	374.8	247.0	239.1	233.6	240.8	237.3	213.0	192.7	191.7
60°	1598.0	894.8	344.2	228.9	223.3	220.4	231.2	230.2	203.0	180.3	179.5
62.5°	1650.2	902.4	310.4	211.5	210.1	204.8	218.0	218.0	190.3	168.1	167.4
65°	1691.1	895.0	276.1	194.2	196.9	189.0	201.9	200.4	176.8	157.3	156.2
67.5°	1727.3	870.7	238.1	177.4	183.5	173.4	185.0	181.3	162.1	146.5	145.4
70°	1743.4	814.3	194.7	160.5	167.9	158.2	168.1	161.2	145.4	134.9	132.7
72.5°	1614.1	676.8	153.3	142.8	149.1	141.2	150.0	142.0	127.5	122.7	118.8
75°	1335.4	507.9	118.0	123.5	128.3	122.2	128.0	122.2	109.1	112.4	102.7
77.5°	969.8	342.9	90.3	103.2	105.3	102.2	107.2	100.6	88.7	87.9	83.9
80°	482.3	200.9	70.7	81.6	80.8	78.6	84.5	81.3	71.2	75.4	74.7
82.5°	139.6	86.1	51.5	57.3	55.7	56.3	60.5	62.0	92.9	92.1	94.2
85°	43.8	33.8	30.9	32.0	30.3	31.2	35.7	70.7	65.5	38.2	41.4
87.5°	11.4	11.6	7.7	8.2	8.4	10.0	11.4	43.0	20.6	13.4	14.2
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)