

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: P962050

Luminaire Tested: **NVN-SB2B-827-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2B-827-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

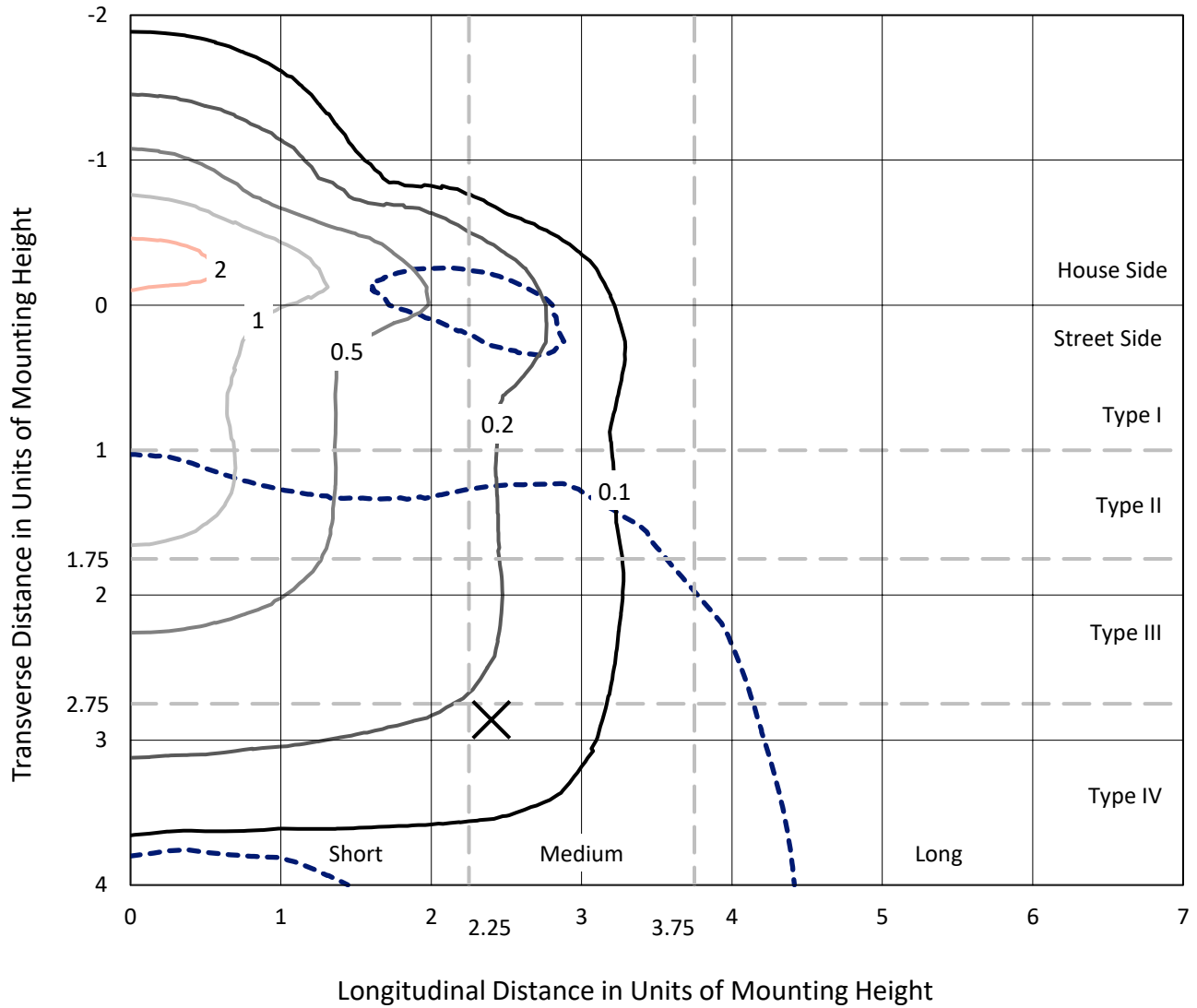
Lumens per Lamp: N/A  
Luminaire Lumens: 9949.7 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

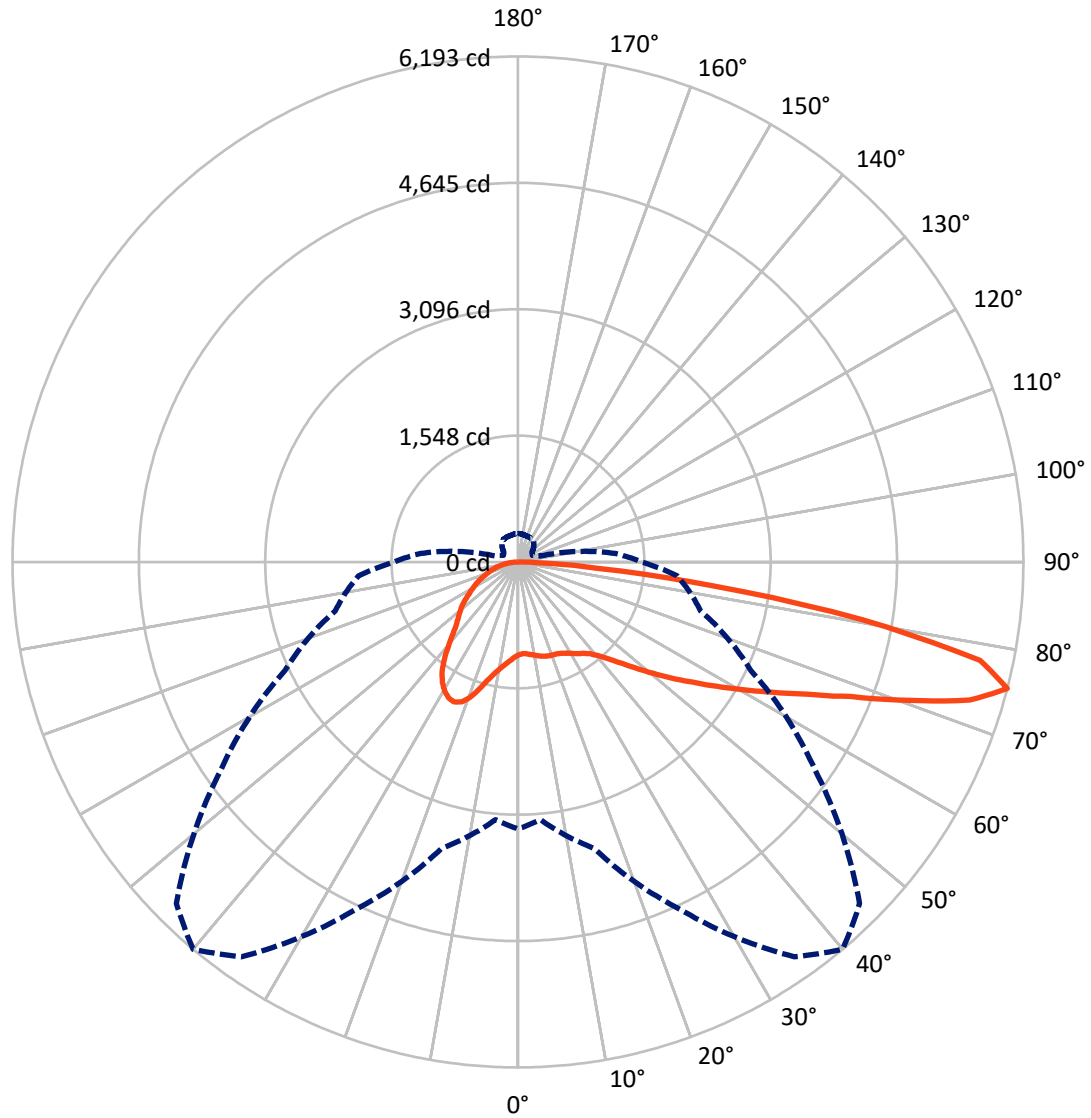
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3082.8	0.0	3082.8
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	6866.9	0.0	6866.9
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	9949.7	0.0	9949.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	1.1
10°-20°	381.3	3.8
20°-30°	696.2	7.0
30°-40°	987.5	9.9
40°-50°	1333.4	13.4
50°-60°	1793.7	18.0
60°-70°	2276.6	22.9
70°-80°	2066.2	20.8
80°-90°	301.2	3.0
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°	9949.7	100.0
0°-180°	9949.7	100.0

**Coefficient of Utilization**



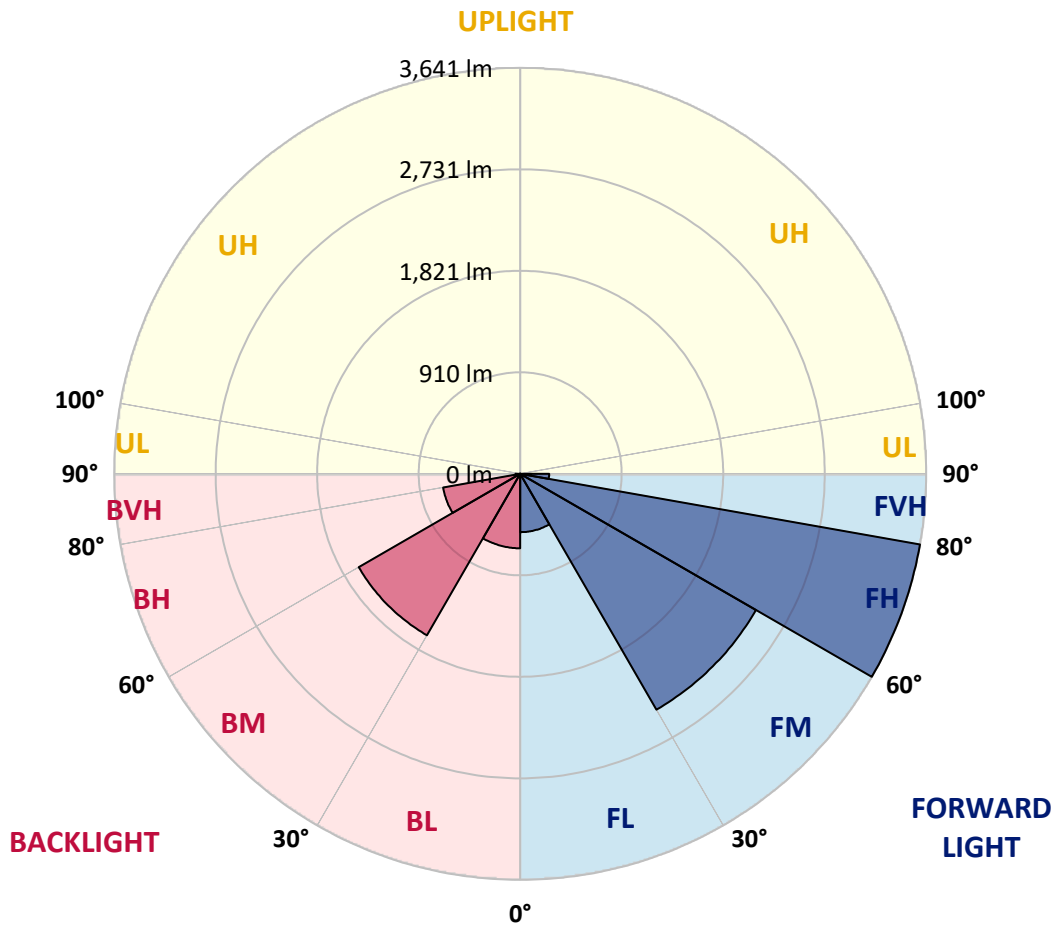
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.4	5.3			
FM (30°-60°)	2442.4	24.5			
FH (60°-80°)	3641.4	36.6			G2/5000
FVH (80°-90°)	259.7	2.6			G3/500
BL (0°-30°)	667.8	6.7	B2/1000		
BM (30°-60°)	1672.1	16.8	B2/2500		
BH (60°-80°)	701.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8
2.5°	1120.3	1126.7	1125.1	1123.0	1123.0	1123.5	1123.0	1126.7	1130.4	1134.1	1139.9
5°	1131.9	1138.3	1135.1	1132.5	1130.4	1129.9	1128.2	1127.7	1129.9	1134.6	1142.5
7.5°	1154.7	1161.0	1156.2	1151.5	1147.3	1145.1	1143.1	1139.9	1138.3	1140.9	1152.0
10°	1180.0	1186.3	1180.5	1172.1	1165.2	1162.6	1160.4	1157.3	1155.2	1156.7	1168.9
12.5°	1205.3	1211.7	1203.8	1192.1	1183.2	1181.5	1179.0	1177.8	1177.3	1176.8	1188.9
15°	1229.1	1234.3	1224.3	1210.6	1201.1	1198.4	1195.8	1197.4	1200.1	1203.1	1216.9
17.5°	1247.5	1252.8	1238.0	1220.1	1211.1	1210.0	1208.5	1213.7	1221.2	1229.1	1246.0
20°	1264.4	1269.7	1250.7	1226.4	1215.9	1215.9	1216.4	1227.4	1238.0	1249.7	1272.8
22.5°	1288.1	1292.4	1269.2	1235.9	1220.6	1221.7	1225.9	1237.0	1250.2	1266.0	1298.2
25°	1323.5	1326.7	1298.2	1253.9	1236.5	1239.6	1243.3	1248.6	1261.3	1279.7	1323.0
27.5°	1380.5	1383.1	1345.7	1285.6	1259.1	1264.4	1269.7	1266.0	1271.8	1287.6	1343.1
30°	1460.7	1462.3	1414.8	1335.2	1297.6	1300.3	1301.3	1286.1	1275.0	1287.6	1357.3
32.5°	1555.7	1555.2	1498.8	1395.3	1341.4	1338.9	1329.8	1299.8	1273.9	1285.0	1369.9
35°	1702.9	1697.1	1624.3	1479.7	1391.0	1374.7	1353.6	1315.1	1279.2	1282.4	1381.1
37.5°	1946.8	1928.8	1828.0	1618.0	1464.9	1423.2	1392.2	1339.9	1290.8	1281.2	1394.2
40°	2221.7	2199.0	2088.1	1807.4	1575.7	1508.7	1458.6	1375.2	1309.7	1286.1	1413.8
42.5°	2547.8	2515.7	2396.3	2030.6	1716.2	1619.0	1543.5	1420.1	1337.7	1301.3	1440.1
45°	2948.3	2905.6	2736.7	2282.4	1893.0	1763.6	1662.9	1488.2	1380.5	1330.9	1479.7
47.5°	3353.1	3363.6	3123.6	2570.5	2105.0	1942.0	1812.2	1590.5	1442.8	1378.4	1543.5
50°	3783.2	3790.6	3508.3	2889.8	2345.7	2143.6	1980.0	1705.1	1529.3	1446.0	1639.1
52.5°	4118.9	4119.9	3857.6	3223.8	2596.3	2365.2	2161.0	1835.9	1629.5	1535.7	1766.3
55°	4328.9	4326.2	4102.5	3539.9	2884.5	2598.0	2361.5	1984.7	1752.0	1641.2	1926.2
57.5°	4481.4	4473.5	4271.4	3811.7	3191.6	2872.9	2588.4	2153.6	1896.7	1766.8	2136.7
60°	4539.4	4534.7	4385.9	4046.5	3514.6	3176.9	2850.2	2342.5	2060.8	1915.1	2407.4
62.5°	4561.6	4570.6	4498.2	4273.9	3860.3	3513.5	3137.8	2568.4	2245.5	2082.9	2693.0
65°	4639.7	4656.1	4641.3	4571.6	4250.8	3907.7	3519.3	2837.0	2447.0	2262.9	2991.1
67.5°	4794.3	4810.6	4817.0	4927.8	4727.8	4399.1	3995.3	3171.6	2682.9	2449.6	3215.4
70°	4790.6	4785.8	4897.8	5211.2	5325.2	5079.3	4637.1	3583.2	2964.2	2604.8	3243.9
72.5°	4360.6	4322.5	4586.9	5208.0	5822.3	5789.6	5420.7	4114.0	3206.9	2623.8	2814.9
75°	3271.3	3170.0	3637.0	4693.5	5905.1	6192.7	5918.9	4443.4	3149.4	2318.2	1958.9
77.5°	1399.0	1297.1	1847.6	3474.4	5285.1	5789.1	5461.9	3876.7	2514.0	1533.0	962.1
80°	366.2	365.7	558.3	1575.2	3594.3	4275.1	3750.5	2503.5	1436.4	547.8	265.5
82.5°	151.5	147.8	205.3	612.6	1756.2	2399.0	1957.9	1116.6	518.8	148.3	88.1
85°	56.5	56.0	99.7	211.7	619.5	989.4	716.1	285.5	129.3	72.3	39.6
87.5°	15.8	15.3	21.6	73.4	150.9	229.0	122.4	46.9	36.4	28.5	11.6
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°	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8	1137.8
2.5°	1141.4	1144.1	1148.8	1152.5	1157.3	1162.6	1169.9	1174.6	1179.5	1182.6	1180.5
5°	1146.2	1152.0	1164.2	1176.3	1190.5	1203.8	1219.0	1230.1	1239.1	1241.7	1242.8
7.5°	1156.7	1166.2	1186.8	1207.4	1230.1	1251.7	1273.9	1292.9	1308.2	1314.0	1314.6
10°	1175.3	1187.9	1216.9	1246.0	1276.0	1309.2	1337.7	1365.2	1386.8	1395.8	1396.4
12.5°	1198.4	1214.3	1252.2	1292.4	1334.0	1380.0	1417.0	1450.7	1477.6	1489.7	1489.7
15°	1228.6	1249.1	1297.6	1351.5	1412.7	1476.5	1523.6	1561.0	1591.1	1605.9	1604.7
17.5°	1261.3	1288.7	1349.9	1431.2	1518.7	1602.7	1657.5	1685.0	1716.2	1730.4	1729.9
20°	1292.9	1326.7	1414.3	1532.5	1649.1	1738.3	1782.7	1790.1	1792.1	1793.7	1798.0
22.5°	1325.6	1371.0	1495.1	1660.2	1785.2	1847.0	1853.3	1821.6	1777.4	1756.7	1762.6
25°	1361.5	1421.7	1600.5	1801.1	1902.4	1909.8	1861.3	1784.2	1700.3	1661.8	1667.6
27.5°	1396.4	1480.2	1727.2	1935.7	1986.9	1922.0	1817.4	1708.3	1606.9	1566.3	1571.0
30°	1431.2	1547.2	1867.0	2053.4	2025.4	1891.8	1748.3	1626.5	1524.6	1481.8	1486.6
32.5°	1466.6	1625.3	2028.1	2138.4	2018.5	1828.0	1662.3	1534.6	1444.8	1400.0	1405.9
35°	1506.6	1721.4	2180.5	2184.8	1972.6	1734.1	1548.9	1424.9	1346.7	1310.9	1318.8
37.5°	1558.9	1843.4	2315.1	2196.4	1892.4	1596.3	1407.9	1295.0	1230.6	1214.3	1225.9
40°	1623.8	1990.0	2418.0	2177.9	1773.7	1429.1	1253.9	1163.6	1127.2	1130.9	1143.6
42.5°	1708.3	2154.1	2490.3	2130.4	1608.5	1256.4	1118.8	1078.6	1096.0	1110.9	1124.5
45°	1817.9	2324.6	2535.1	2049.7	1421.7	1110.3	1039.0	1048.6	1061.8	1063.3	1073.9
47.5°	1958.4	2497.2	2564.8	1927.7	1231.1	1007.4	988.4	990.6	987.9	976.8	985.2
50°	2133.5	2665.0	2591.1	1766.3	1069.2	943.0	917.7	910.3	873.9	838.0	842.8
52.5°	2333.0	2819.1	2602.2	1565.7	943.0	889.2	848.1	801.7	733.5	722.4	726.1
55°	2554.7	2961.5	2573.7	1319.3	836.9	820.1	757.8	701.8	694.4	685.0	686.5
57.5°	2819.6	3115.1	2515.7	1044.4	728.3	739.3	678.7	685.0	671.8	657.0	654.4
60°	3109.3	3274.0	2413.8	793.7	615.8	638.6	658.0	657.5	653.8	641.8	637.4
62.5°	3370.0	3378.4	2213.3	607.9	517.1	560.5	613.8	613.3	610.1	603.2	600.5
65°	3525.2	3362.6	1878.7	478.7	435.9	496.1	553.6	557.8	558.3	557.8	557.8
67.5°	3497.7	3177.4	1419.5	381.0	368.9	430.6	493.9	499.8	504.0	505.0	506.0
70°	3187.4	2770.5	925.6	304.0	309.2	373.1	437.5	443.3	447.0	451.2	453.4
72.5°	2484.5	2037.0	529.8	245.9	257.0	323.5	381.5	388.4	390.5	398.4	401.6
75°	1514.0	1197.9	286.0	193.6	211.0	276.5	326.2	334.0	337.7	347.3	348.3
77.5°	719.9	518.8	163.1	150.9	169.9	225.9	275.4	284.4	274.4	279.7	275.4
80°	243.2	192.6	102.9	115.0	129.9	176.3	220.6	229.6	208.5	207.4	205.3
82.5°	85.0	78.1	65.4	76.6	83.9	126.1	166.8	178.4	155.2	154.6	147.2
85°	33.2	31.7	36.4	41.7	50.1	77.6	109.8	115.6	95.5	77.1	76.0
87.5°	6.9	7.4	9.0	9.5	15.3	27.0	39.6	48.6	38.5	32.7	30.0
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)