

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: P962067

Luminaire Tested: **NVN-SB2B-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2B-827-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

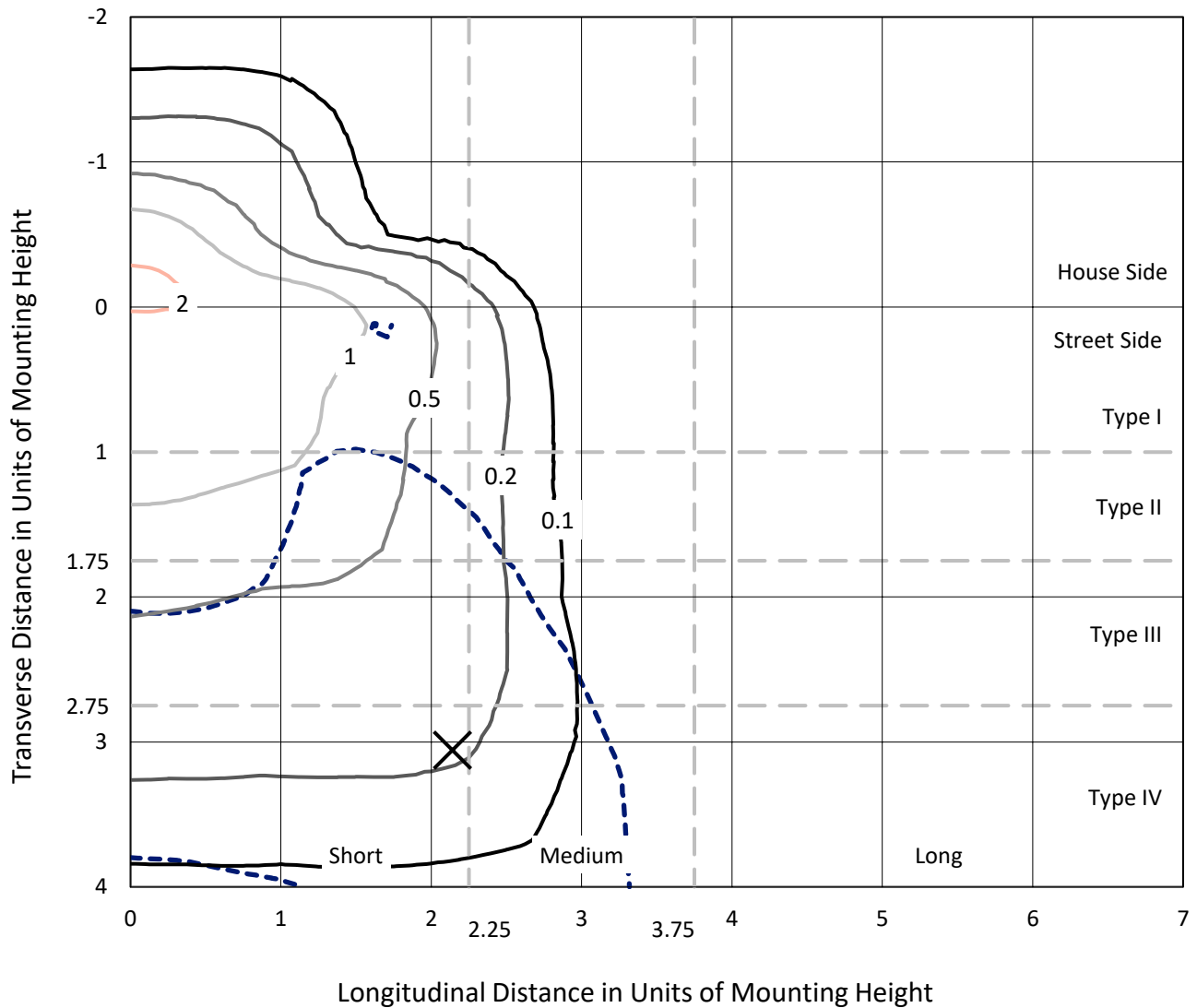
Lumens per Lamp: N/A  
Luminaire Lumens: 9920 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

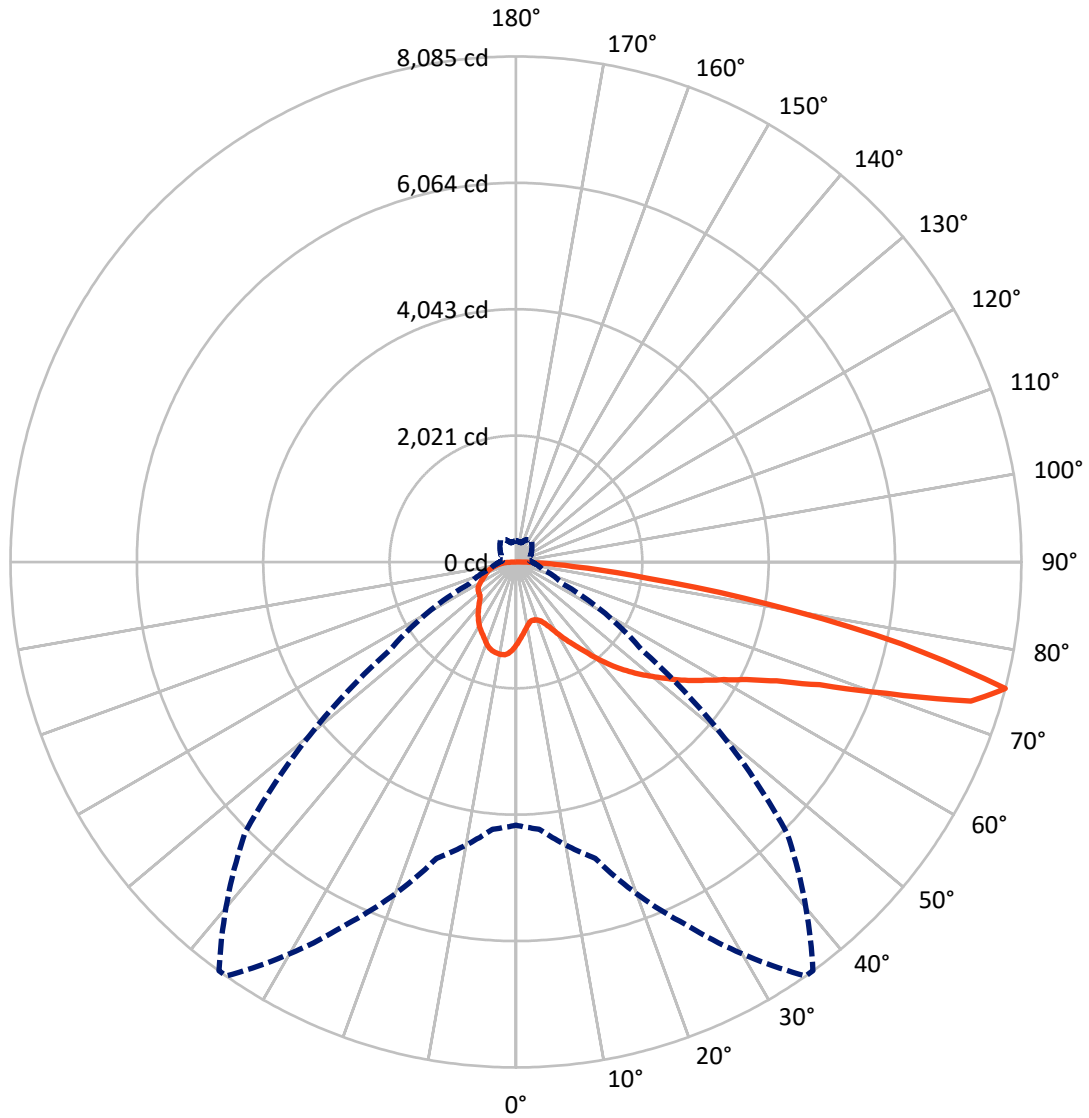
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2360.7	0.0	2360.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	7559.3	0.0	7559.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	9920.0	0.0	9920.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	1.3
10°-20°	361.0	3.6
20°-30°	606.2	6.1
30°-40°	942.2	9.5
40°-50°	1398.4	14.1
50°-60°	1930.6	19.5
60°-70°	2342.3	23.6
70°-80°	1935.7	19.5
80°-90°	278.4	2.8
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°	9920.0	100.0
0°-180°	9920.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P962067

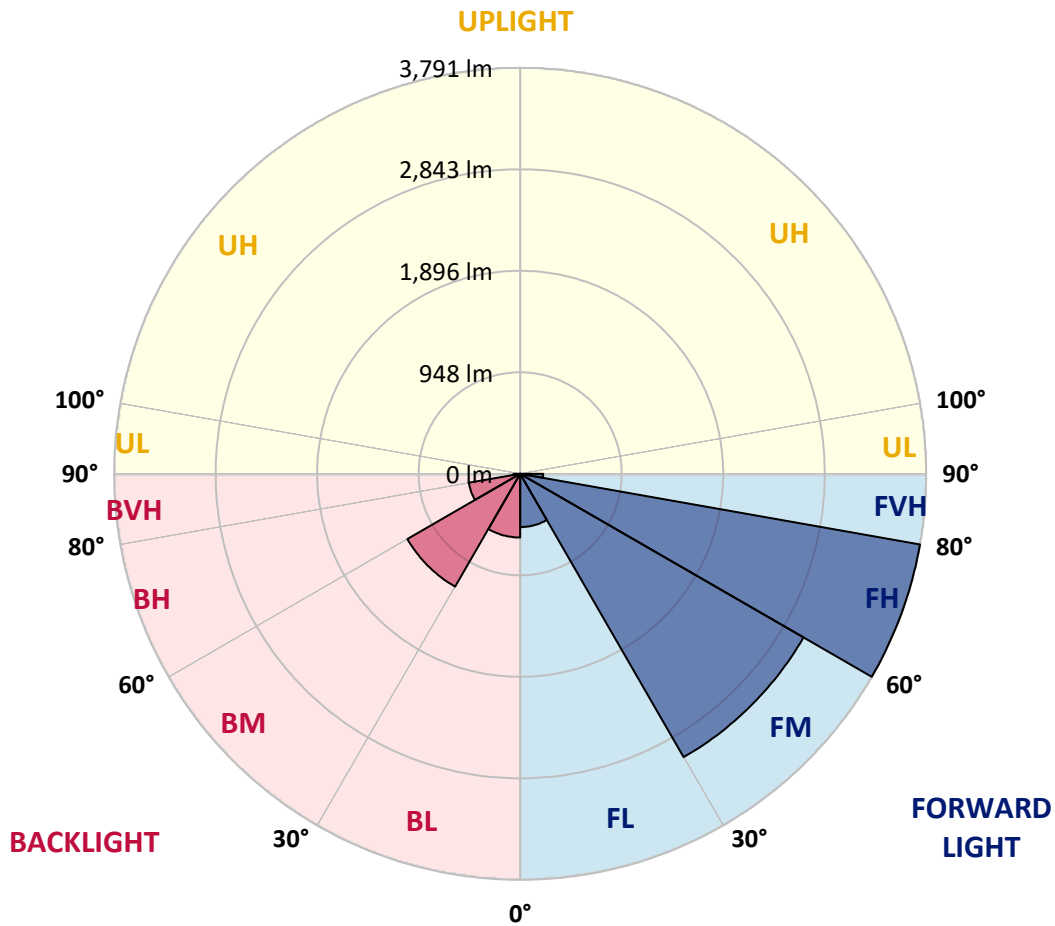
CATALOG NUMBER: NVN-SB2B-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.5	5.0			
FM (30°-60°)	3054.8	30.8			
FH (60°-80°)	3791.3	38.2			G2/5000
FVH (80°-90°)	215.7	2.2			G2/225
BL (0°-30°)	594.9	6.0	B2/1000		
BM (30°-60°)	1216.4	12.3	B2/2500		
BH (60°-80°)	486.7	4.9	B1/500		G1/500
BVH (80°-90°)	62.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1218.9	1226.4	1229.7	1228.1	1236.0	1235.0	1246.3	1260.2	1279.5	1298.3	1325.6
5°	1125.0	1133.1	1140.1	1146.6	1162.0	1167.0	1184.6	1211.4	1246.8	1282.8	1327.8
7.5°	1037.7	1044.7	1055.3	1067.1	1093.5	1098.3	1127.8	1169.6	1218.9	1271.5	1333.7
10°	966.4	973.3	984.6	998.0	1030.7	1036.6	1074.1	1130.0	1194.2	1260.8	1340.1
12.5°	935.8	938.0	944.3	957.8	986.2	989.9	1031.3	1095.1	1170.1	1252.8	1349.8
15°	934.2	938.5	939.0	946.0	969.5	971.2	1009.2	1072.6	1155.1	1251.1	1364.3
17.5°	950.3	953.5	948.6	952.9	972.8	975.5	1005.5	1061.8	1150.3	1258.1	1389.0
20°	993.1	995.9	981.3	975.5	989.9	992.1	1021.6	1068.8	1155.1	1272.5	1422.7
22.5°	1084.3	1086.0	1050.5	1026.4	1027.5	1028.6	1054.3	1097.2	1173.9	1298.9	1465.6
25°	1226.4	1225.4	1169.1	1122.4	1095.6	1089.7	1106.9	1143.3	1205.5	1333.7	1520.9
27.5°	1392.7	1384.7	1328.3	1258.6	1200.2	1191.6	1187.9	1203.4	1250.6	1379.9	1588.4
30°	1580.3	1572.9	1512.3	1421.1	1340.1	1326.1	1290.8	1282.8	1317.6	1442.6	1682.2
32.5°	1786.3	1781.4	1709.1	1598.6	1490.2	1474.2	1414.7	1393.2	1420.5	1537.5	1813.1
35°	1959.0	1954.7	1894.6	1780.9	1648.5	1628.6	1568.0	1544.0	1557.9	1659.2	1984.2
37.5°	2115.1	2112.9	2061.4	1971.9	1835.2	1811.0	1742.9	1734.8	1732.1	1819.6	2191.8
40°	2259.8	2254.5	2200.9	2153.6	2052.3	2030.3	1970.3	1963.3	1942.9	2016.9	2426.6
42.5°	2420.1	2406.2	2328.5	2306.5	2279.1	2260.9	2225.0	2226.1	2181.0	2239.4	2675.5
45°	2551.0	2543.0	2463.1	2450.2	2479.7	2472.2	2503.3	2511.4	2423.9	2472.7	2934.0
47.5°	2691.5	2684.1	2616.4	2607.3	2687.2	2689.4	2799.3	2802.0	2661.0	2715.1	3193.0
50°	2864.8	2854.0	2787.0	2798.2	2887.8	2895.8	3096.9	3078.7	2879.2	2961.2	3449.8
52.5°	2979.0	2985.4	2971.0	2989.2	3111.4	3119.0	3389.8	3343.1	3095.3	3204.1	3701.9
55°	3063.2	3076.0	3121.1	3162.9	3347.3	3354.9	3665.9	3594.6	3274.5	3429.4	3938.9
57.5°	3171.5	3153.2	3237.5	3319.0	3571.5	3591.4	3934.6	3837.0	3433.2	3623.6	4101.3
60°	3327.0	3314.1	3379.5	3500.2	3822.5	3854.2	4218.8	4055.2	3549.6	3777.4	4133.0
62.5°	3642.3	3610.2	3620.3	3727.1	4139.0	4180.8	4539.5	4245.7	3607.5	3837.5	3963.6
65°	4113.7	4058.5	4007.0	4081.0	4584.5	4625.8	4901.4	4395.3	3586.1	3721.2	3513.6
67.5°	4707.3	4652.7	4589.3	4659.1	5240.9	5273.6	5348.2	4479.5	3417.1	3272.8	2718.3
70°	5197.0	5176.6	5252.2	5539.1	6289.4	6290.4	5920.9	4409.8	2954.3	2320.4	1572.9
72.5°	5132.1	5119.8	5518.2	6405.2	7610.7	7582.3	6463.1	3882.1	1990.1	1046.8	589.4
75°	4210.3	4290.1	4907.4	6389.6	8085.3	8081.5	6131.1	2467.9	823.2	433.9	304.6
77.5°	2257.7	2384.3	3186.0	4717.6	6311.8	6406.8	4310.5	863.4	353.4	277.8	210.7
80°	736.3	846.8	1269.9	2402.0	4101.3	4083.7	1847.5	339.0	241.9	196.8	145.9
82.5°	312.6	325.5	567.3	1134.2	2104.8	2072.1	588.2	194.6	170.0	134.6	90.1
85°	122.3	136.7	250.4	524.5	911.6	891.9	212.4	96.6	108.9	87.9	53.6
87.5°	40.2	48.8	89.6	179.7	283.7	273.5	52.0	33.2	47.2	40.2	19.3
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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CATALOG NUMBER: NVN-SB2B-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
2.5°	1333.1	1341.7	1352.0	1366.9	1379.9	1390.5	1401.8	1408.8	1411.4	1419.5	1419.0
5°	1342.9	1361.6	1386.8	1411.4	1435.6	1450.1	1463.0	1469.3	1475.3	1479.6	1480.6
7.5°	1358.9	1383.0	1422.7	1454.9	1475.3	1487.1	1495.7	1493.5	1495.7	1496.7	1498.3
10°	1372.9	1406.6	1453.9	1484.4	1500.0	1500.5	1498.3	1490.9	1487.1	1487.6	1488.7
12.5°	1389.5	1427.0	1477.9	1503.7	1508.0	1496.2	1487.1	1474.2	1469.3	1467.2	1466.2
15°	1412.0	1454.9	1504.2	1513.9	1503.2	1488.1	1472.6	1451.7	1440.9	1432.3	1435.1
17.5°	1439.3	1486.6	1524.6	1517.6	1494.6	1470.0	1444.7	1413.1	1391.1	1382.0	1382.5
20°	1477.4	1519.8	1540.2	1509.6	1474.8	1437.2	1394.3	1355.7	1335.3	1326.1	1325.1
22.5°	1523.6	1564.3	1555.1	1495.7	1446.3	1386.2	1332.6	1304.2	1294.1	1287.6	1288.6
25°	1578.8	1613.7	1565.9	1475.3	1399.6	1318.7	1277.4	1268.2	1263.4	1258.6	1258.6
27.5°	1650.7	1669.4	1574.0	1445.2	1326.8	1246.8	1231.8	1233.4	1231.8	1223.7	1225.4
30°	1745.6	1741.8	1581.5	1396.5	1243.1	1181.9	1183.1	1190.0	1191.0	1185.7	1188.4
32.5°	1870.5	1832.4	1585.2	1333.1	1163.2	1125.0	1126.2	1133.6	1139.1	1130.0	1134.2
35°	2021.7	1938.1	1579.3	1253.8	1101.5	1070.9	1062.9	1065.1	1066.6	1058.1	1063.9
37.5°	2198.1	2056.6	1553.1	1165.8	1050.5	1017.8	1000.7	986.2	977.6	969.5	975.0
40°	2391.7	2185.8	1504.8	1080.0	993.7	961.6	935.8	908.5	879.4	868.8	873.6
42.5°	2594.5	2318.9	1446.3	998.0	928.2	902.0	874.6	835.0	791.5	769.6	772.2
45°	2804.7	2455.1	1389.0	917.1	861.2	850.0	818.4	770.6	723.4	695.6	693.4
47.5°	3010.6	2583.7	1304.7	835.5	798.5	810.9	786.2	742.2	689.6	645.6	640.8
50°	3207.4	2704.4	1167.0	753.0	747.5	799.1	775.4	712.2	652.1	595.8	591.0
52.5°	3402.6	2802.0	990.5	677.8	720.2	795.8	761.5	691.8	618.3	559.3	552.9
55°	3568.3	2852.4	820.5	613.5	680.5	768.4	744.9	667.7	570.6	507.9	502.5
57.5°	3662.7	2811.7	679.0	550.2	625.9	723.4	716.5	616.1	513.7	465.5	459.0
60°	3621.9	2646.4	563.0	495.0	573.8	674.7	667.1	565.2	470.3	424.8	418.3
62.5°	3397.3	2331.7	471.4	446.7	526.6	624.7	617.8	526.0	437.1	393.1	386.1
65°	2944.6	1896.8	400.1	406.5	478.9	564.7	574.9	493.3	410.8	367.9	360.9
67.5°	2245.9	1373.9	344.3	371.7	432.2	505.7	535.2	469.8	388.8	348.0	341.6
70°	1280.1	780.2	297.0	337.8	390.9	451.0	504.6	451.0	365.2	331.4	327.1
72.5°	485.3	358.2	256.9	304.0	351.3	404.9	470.9	421.5	337.8	312.6	308.3
75°	259.0	218.2	216.1	264.3	305.7	359.9	428.4	392.6	317.4	330.4	341.0
77.5°	176.4	154.5	180.7	226.3	255.8	310.0	383.5	348.6	275.1	274.0	252.6
80°	122.3	109.4	147.0	182.3	197.9	260.7	334.7	299.2	224.2	209.1	200.0
82.5°	73.5	71.3	110.0	136.2	140.0	201.1	277.3	251.0	183.4	159.8	160.9
85°	40.2	42.3	70.2	79.9	81.5	140.5	217.2	194.1	141.0	118.5	119.6
87.5°	11.3	14.5	25.7	31.7	39.2	73.0	129.3	115.3	70.8	49.3	49.3
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)