

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: P964175

Luminaire Tested: **NVN-SB3B-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964175  
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-SB3B-827-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

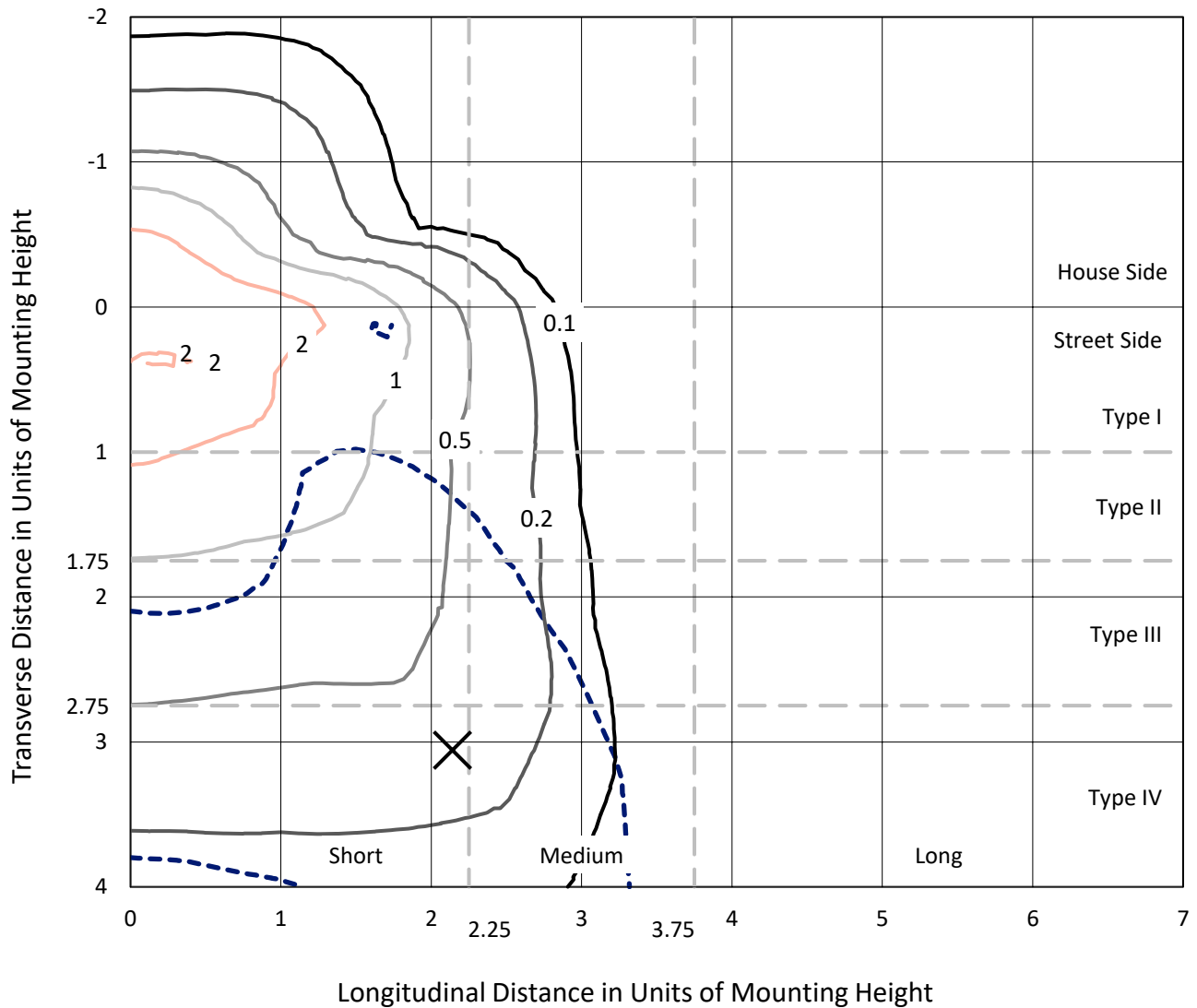
Lumens per Lamp: N/A  
Luminaire Lumens: 14884 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

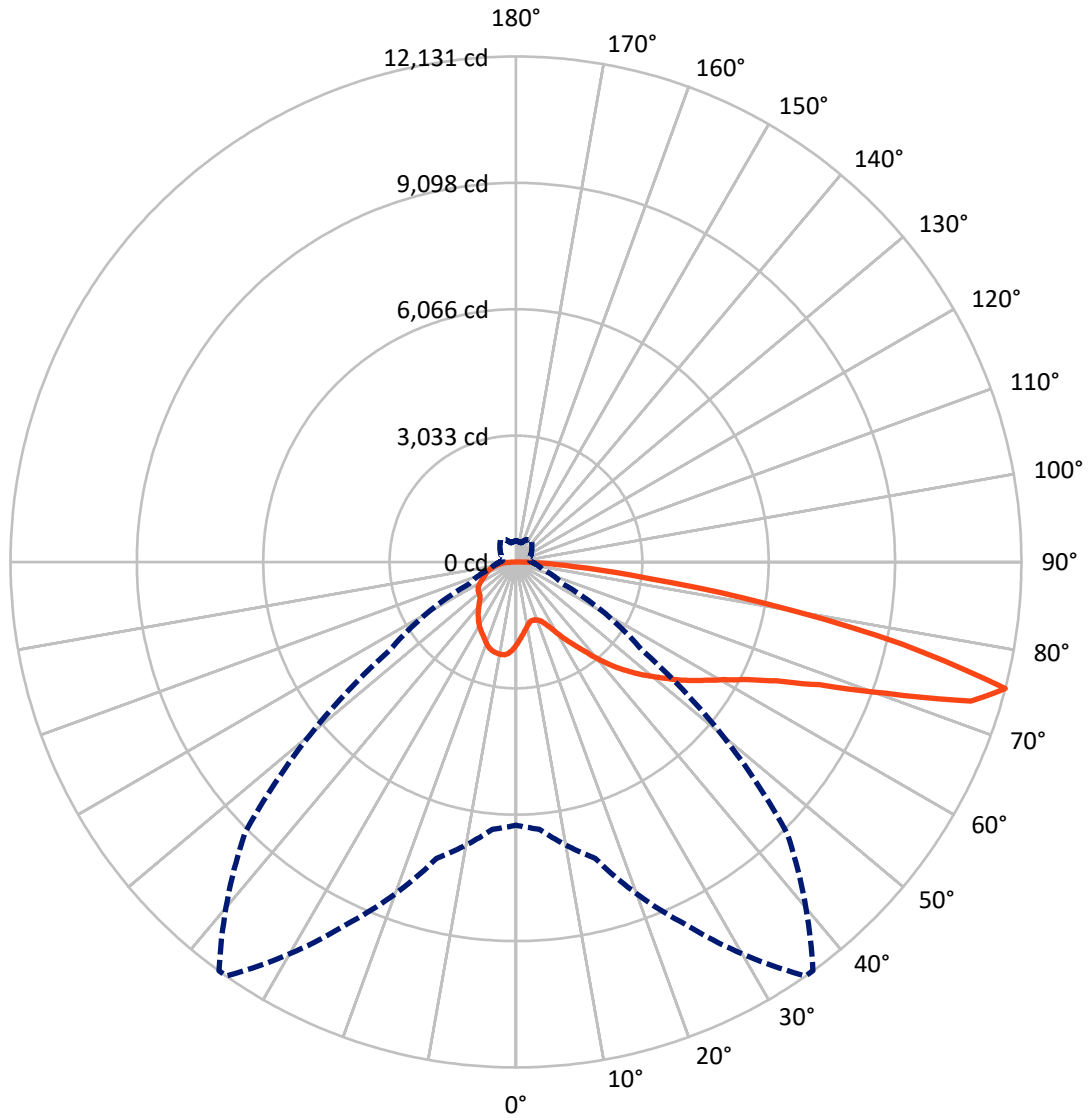
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	3542.0	0.0	3542.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	11342.0	0.0	11342.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	14884.0	0.0	14884.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.8	1.3
10°-20°	541.7	3.6
20°-30°	909.6	6.1
30°-40°	1413.6	9.5
40°-50°	2098.2	14.1
50°-60°	2896.7	19.5
60°-70°	3514.4	23.6
70°-80°	2904.3	19.5
80°-90°	417.7	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°	14884.0	100.0
0°-180°	14884.0	100.0



REPORT NUMBER: P964175

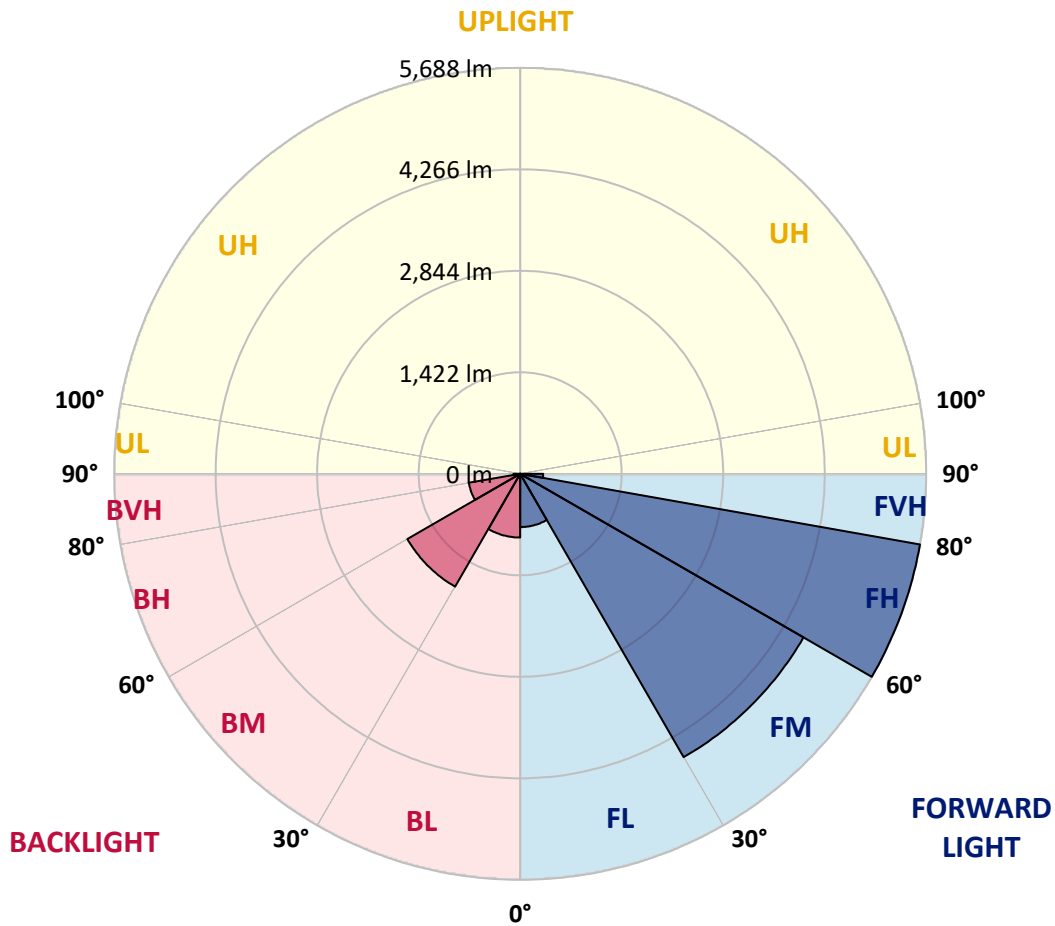
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.4	5.0			
FM (30°-60°)	4583.5	30.8			
FH (60°-80°)	5688.4	38.2			G3/7500
FVH (80°-90°)	323.7	2.2			G3/500
BL (0°-30°)	892.6	6.0	B2/1000		
BM (30°-60°)	1825.1	12.3	B2/2500		
BH (60°-80°)	730.3	4.9	B2/1000		G2/1000
BVH (80°-90°)	94.1	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	1828.9	1840.2	1845.0	1842.5	1854.6	1853.1	1869.9	1890.8	1919.8	1948.0	1989.0
5°	1688.1	1700.2	1710.6	1720.3	1743.6	1750.9	1777.5	1817.6	1870.7	1924.6	1992.3
7.5°	1557.0	1567.4	1583.5	1601.2	1640.6	1647.9	1692.2	1754.9	1828.9	1907.7	2001.1
10°	1450.0	1460.4	1477.3	1497.4	1546.5	1555.3	1611.7	1695.4	1791.9	1891.6	2010.7
12.5°	1404.0	1407.3	1417.0	1437.0	1479.7	1485.3	1547.3	1643.1	1755.7	1879.6	2025.2
15°	1401.7	1408.0	1408.9	1419.3	1454.8	1457.1	1514.3	1609.2	1733.2	1877.2	2046.9
17.5°	1425.8	1430.6	1423.4	1429.8	1459.6	1463.6	1508.7	1593.2	1725.9	1887.6	2083.9
20°	1490.1	1494.1	1472.4	1463.6	1485.3	1488.5	1532.8	1603.6	1733.2	1909.4	2134.7
22.5°	1627.0	1629.3	1576.2	1540.1	1541.7	1543.2	1581.9	1646.3	1761.4	1948.8	2199.0
25°	1840.2	1838.5	1754.1	1684.1	1643.9	1635.0	1660.7	1715.4	1808.8	2001.1	2282.0
27.5°	2089.6	2077.6	1993.0	1888.5	1800.7	1787.9	1782.3	1805.5	1876.4	2070.3	2383.3
30°	2371.2	2360.0	2269.0	2132.2	2010.7	1989.8	1936.7	1924.6	1976.9	2164.4	2524.1
32.5°	2680.2	2673.0	2564.3	2398.6	2236.0	2212.0	2122.6	2090.4	2131.5	2306.9	2720.5
35°	2939.3	2932.8	2842.7	2672.2	2473.4	2443.6	2352.7	2316.5	2337.4	2489.5	2977.1
37.5°	3173.4	3170.2	3092.9	2958.6	2753.5	2717.2	2615.0	2603.0	2598.9	2730.1	3288.5
40°	3390.7	3382.6	3302.1	3231.4	3079.3	3046.3	2956.2	2945.7	2915.1	3026.2	3640.9
42.5°	3631.3	3610.4	3493.7	3460.7	3419.6	3392.3	3338.4	3340.0	3272.4	3360.2	4014.3
45°	3827.6	3815.6	3695.6	3676.4	3720.5	3709.3	3756.0	3768.0	3636.9	3710.1	4402.1
47.5°	4038.4	4027.1	3925.7	3912.1	4031.9	4035.2	4200.1	4204.1	3992.6	4073.8	4790.7
50°	4298.3	4282.2	4181.6	4198.5	4332.9	4345.0	4646.7	4619.4	4320.1	4443.2	5176.1
52.5°	4469.7	4479.4	4457.6	4485.0	4668.5	4679.7	5086.0	5016.0	4644.3	4807.7	5554.3
55°	4596.0	4615.4	4682.9	4745.6	5022.5	5033.8	5500.5	5393.3	4913.0	5145.6	5909.9
57.5°	4758.6	4731.2	4857.5	4979.9	5358.8	5388.5	5903.5	5757.1	5151.2	5436.8	6153.8
60°	4991.9	4972.6	5070.8	5251.8	5735.4	5782.8	6330.0	6084.6	5325.8	5667.7	6201.2
62.5°	5465.0	5416.7	5432.0	5592.1	6210.1	6272.8	6811.1	6370.2	5412.7	5757.8	5946.9
65°	6172.2	6089.4	6012.1	6123.1	6878.8	6940.7	7354.3	6594.6	5380.5	5583.3	5271.9
67.5°	7063.0	6980.9	6886.0	6990.6	7863.6	7912.7	8024.5	6721.0	5127.0	4910.6	4078.7
70°	7797.6	7767.0	7880.5	8311.0	9436.7	9438.2	8883.9	6616.4	4432.7	3481.6	2360.0
72.5°	7700.2	7681.8	8279.5	9610.4	11419.2	11376.6	9697.3	5824.7	2985.9	1570.6	884.3
75°	6317.1	6437.0	7363.1	9587.1	12131.3	12125.6	9199.3	3702.9	1235.1	651.0	457.0
77.5°	3387.4	3577.4	4780.3	7078.2	9470.4	9612.9	6467.5	1295.4	530.2	416.8	316.2
80°	1104.7	1270.5	1905.4	3603.9	6153.8	6127.2	2771.9	508.5	362.8	295.3	218.8
82.5°	469.1	488.4	851.3	1701.8	3158.1	3109.0	882.6	292.1	255.0	201.9	135.2
85°	183.5	205.2	375.8	786.9	1367.9	1338.1	318.7	144.8	163.4	131.9	80.5
87.5°	60.4	73.2	134.4	269.6	425.7	410.3	78.0	49.9	70.8	60.4	29.0
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°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	2000.3	2013.2	2028.5	2051.0	2070.3	2086.4	2103.3	2113.8	2117.8	2129.8	2129.0
5°	2014.7	2042.9	2080.8	2117.8	2153.9	2175.7	2195.0	2204.7	2213.5	2219.9	2221.6
7.5°	2038.9	2075.1	2134.7	2182.9	2213.5	2231.2	2244.1	2240.9	2244.1	2245.7	2248.1
10°	2059.8	2110.6	2181.3	2227.2	2250.5	2251.3	2248.1	2236.9	2231.2	2232.0	2233.7
12.5°	2084.7	2141.1	2217.6	2256.1	2262.6	2244.9	2231.2	2212.0	2204.7	2201.5	2199.9
15°	2118.6	2182.9	2256.9	2271.5	2255.4	2232.9	2209.5	2178.1	2162.0	2149.1	2153.2
17.5°	2159.6	2230.4	2287.6	2277.0	2242.5	2205.5	2167.7	2120.2	2087.2	2073.5	2074.3
20°	2216.8	2280.3	2310.9	2265.0	2212.7	2156.4	2092.0	2034.1	2003.5	1989.8	1988.2
22.5°	2286.0	2347.0	2333.4	2244.1	2170.0	2079.9	1999.5	1956.8	1941.6	1931.9	1933.6
25°	2368.8	2421.2	2349.5	2213.5	2100.0	1978.6	1916.6	1902.9	1895.7	1888.5	1888.5
27.5°	2476.6	2504.8	2361.6	2168.5	1990.7	1870.7	1848.2	1850.6	1848.2	1836.2	1838.5
30°	2619.1	2613.4	2372.9	2095.2	1865.1	1773.4	1775.0	1785.4	1787.1	1779.0	1783.1
32.5°	2806.6	2749.4	2378.5	2000.3	1745.3	1688.1	1689.7	1701.0	1709.0	1695.4	1701.8
35°	3033.4	2907.9	2369.6	1881.2	1652.7	1606.8	1594.8	1598.0	1600.4	1587.5	1596.3
37.5°	3298.1	3085.8	2330.2	1749.3	1576.2	1527.1	1501.4	1479.7	1466.9	1454.8	1462.8
40°	3588.6	3279.7	2257.8	1620.5	1491.0	1442.7	1404.0	1363.0	1319.6	1303.5	1310.8
42.5°	3892.7	3479.2	2170.0	1497.4	1392.8	1353.4	1312.3	1252.8	1187.7	1154.7	1158.7
45°	4208.1	3683.5	2083.9	1375.9	1292.2	1275.3	1227.8	1156.2	1085.5	1043.6	1040.4
47.5°	4517.2	3876.7	1957.6	1253.6	1198.1	1216.6	1179.6	1113.6	1034.7	968.7	961.6
50°	4812.5	4057.7	1750.9	1129.7	1121.7	1198.8	1163.5	1068.6	978.5	893.9	886.7
52.5°	5105.3	4204.1	1486.1	1017.0	1080.7	1194.0	1142.6	1037.9	927.7	839.3	829.5
55°	5354.0	4279.8	1231.0	920.4	1021.1	1153.0	1117.7	1001.7	856.1	762.0	753.9
57.5°	5495.5	4218.6	1018.6	825.5	939.0	1085.5	1075.0	924.6	770.8	698.4	688.8
60°	5434.4	3970.8	844.8	742.7	860.9	1012.2	1000.9	848.1	705.6	637.2	627.6
62.5°	5097.3	3498.5	707.2	670.2	790.2	937.4	926.9	789.4	655.8	589.8	579.3
65°	4418.2	2845.9	600.2	609.9	718.5	847.3	862.5	740.3	616.3	552.0	541.5
67.5°	3369.8	2061.5	516.6	557.6	648.5	758.8	803.0	704.9	583.3	522.2	512.5
70°	1920.6	1170.8	445.8	506.9	586.6	676.7	757.2	676.7	548.0	497.2	490.8
72.5°	728.2	537.5	385.4	456.2	527.1	607.5	706.4	632.4	506.9	469.1	462.7
75°	388.7	327.5	324.3	396.7	458.6	539.9	642.9	589.0	476.3	495.7	511.8
77.5°	264.8	231.8	271.1	339.6	383.8	465.0	575.3	523.0	412.8	411.1	378.9
80°	183.5	164.1	220.5	273.6	296.9	391.0	502.0	449.0	336.3	313.8	300.1
82.5°	110.2	107.0	164.9	204.4	210.0	301.8	415.9	376.6	275.2	239.7	241.4
85°	60.4	63.6	105.4	119.9	122.3	210.8	325.8	291.3	211.7	177.8	179.5
87.5°	16.9	21.7	38.6	47.5	58.7	109.5	193.9	173.0	106.2	74.0	74.0
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)