

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: P966786

Luminaire Tested: **NVN-SB4C-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4C-827-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

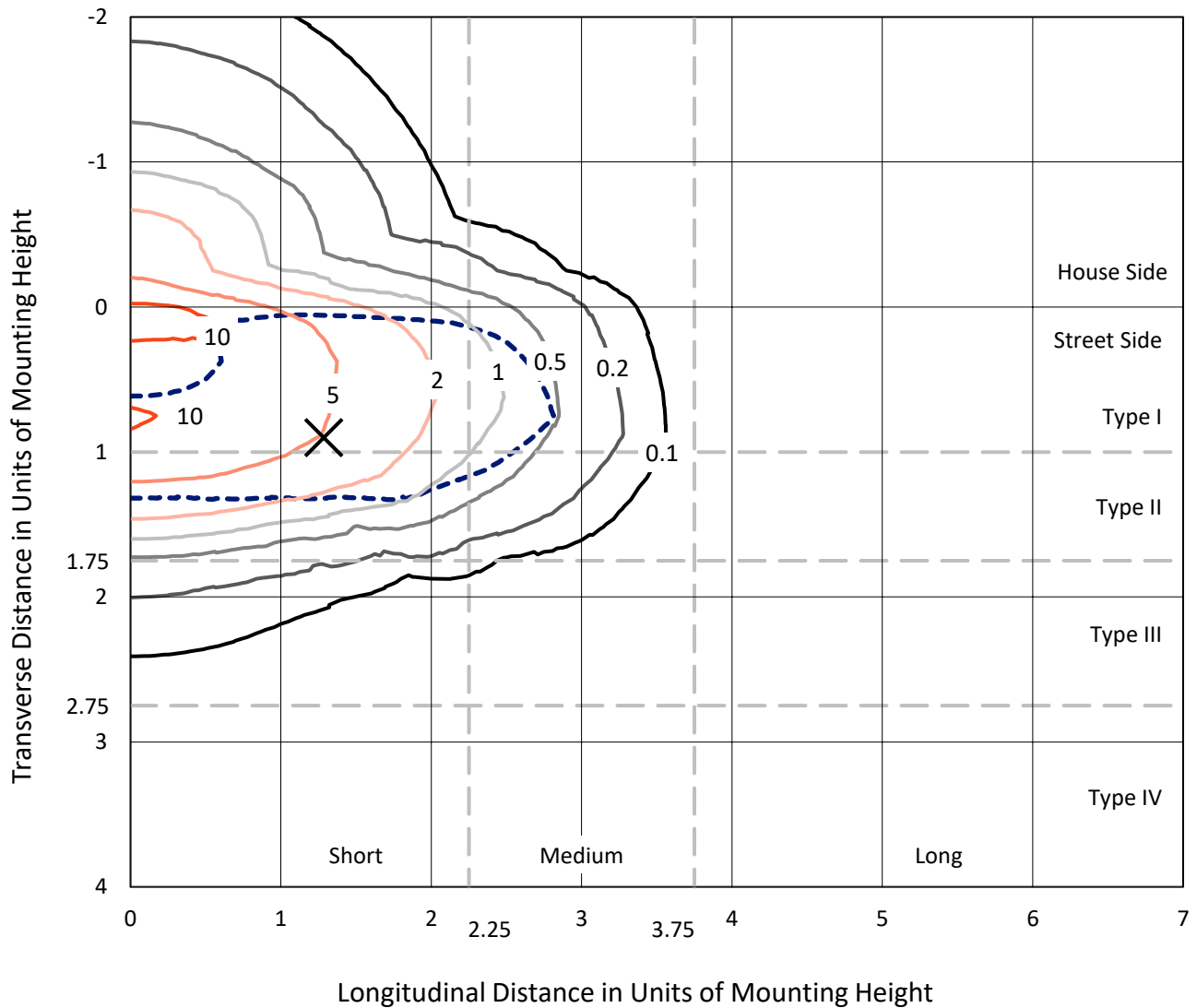
Lumens per Lamp: N/A  
Luminaire Lumens: 27207.6 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

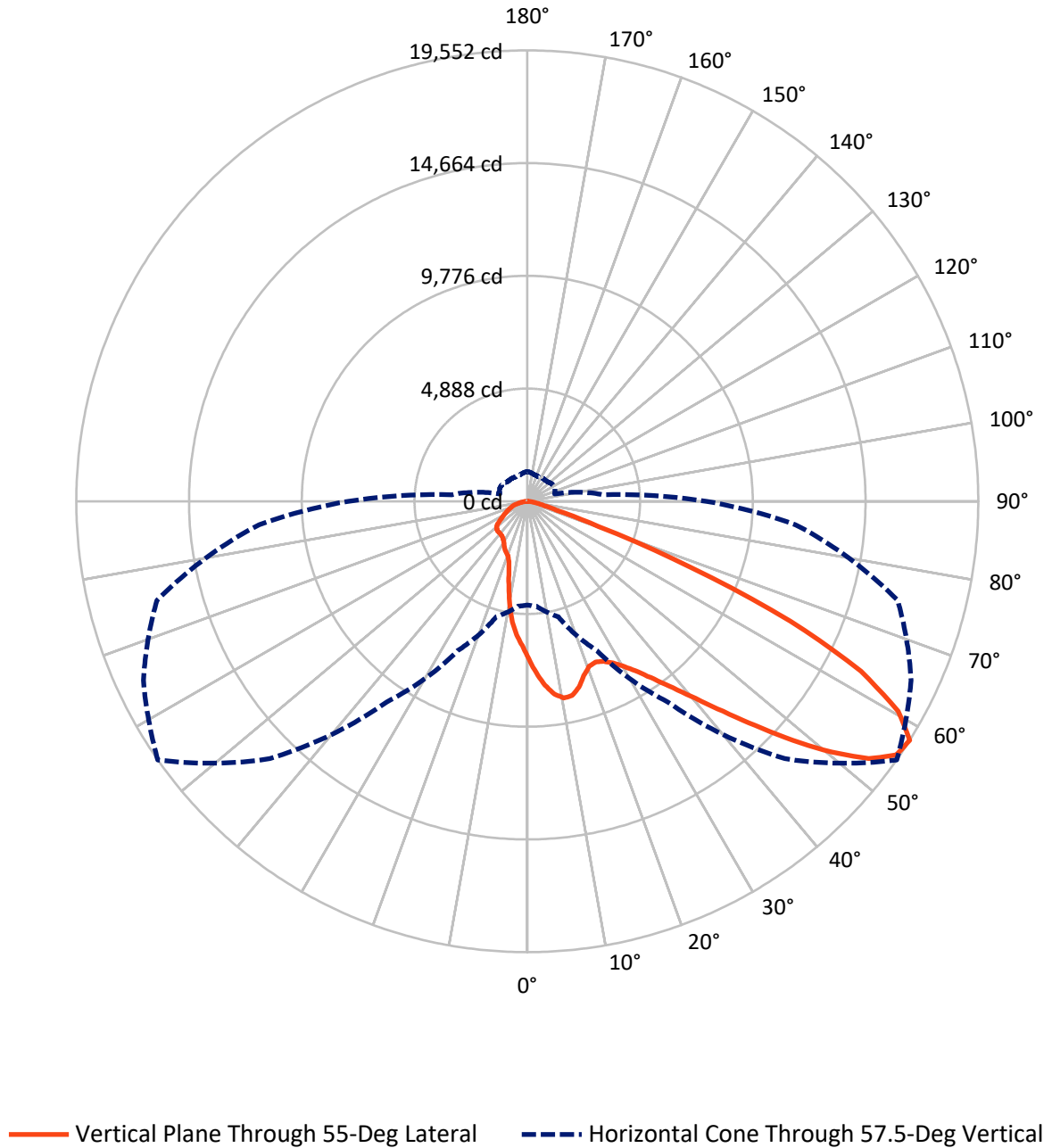
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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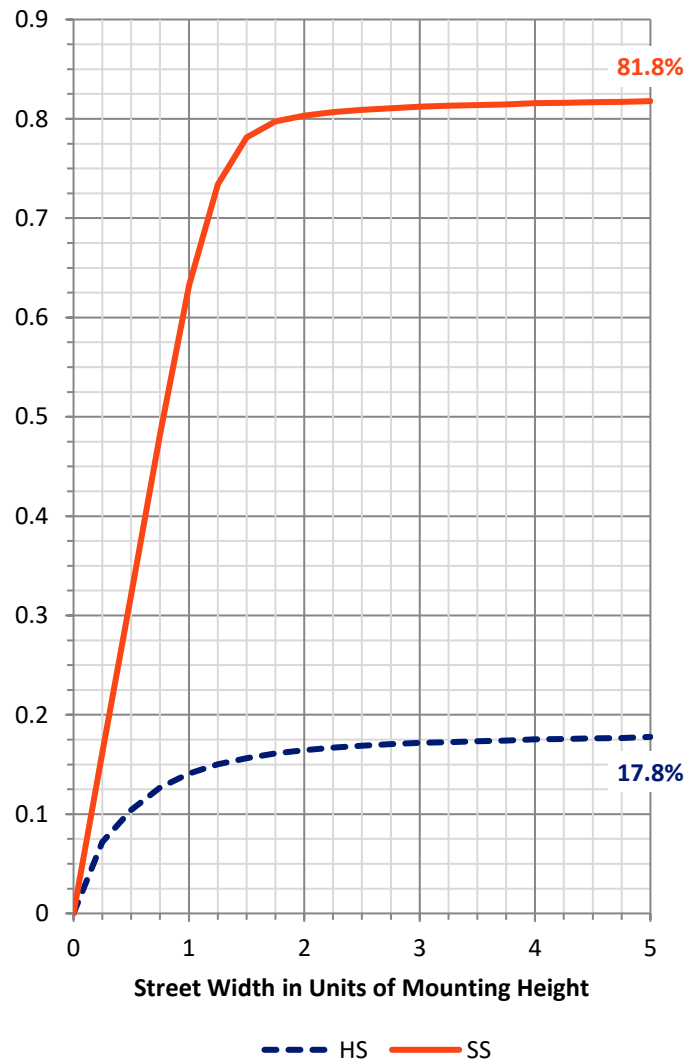
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4923.1	0.0	4923.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22284.5	0.0	22284.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	27207.6	0.0	27207.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.6	2.3
10°-20°	1596.7	5.9
20°-30°	2547.9	9.4
30°-40°	4034.0	14.8
40°-50°	6174.5	22.7
50°-60°	6613.4	24.3
60°-70°	4160.5	15.3
70°-80°	1230.3	4.5
80°-90°	217.6	0.8
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°	27207.6	100.0
0°-180°	27207.6	100.0

**Coefficient of Utilization**



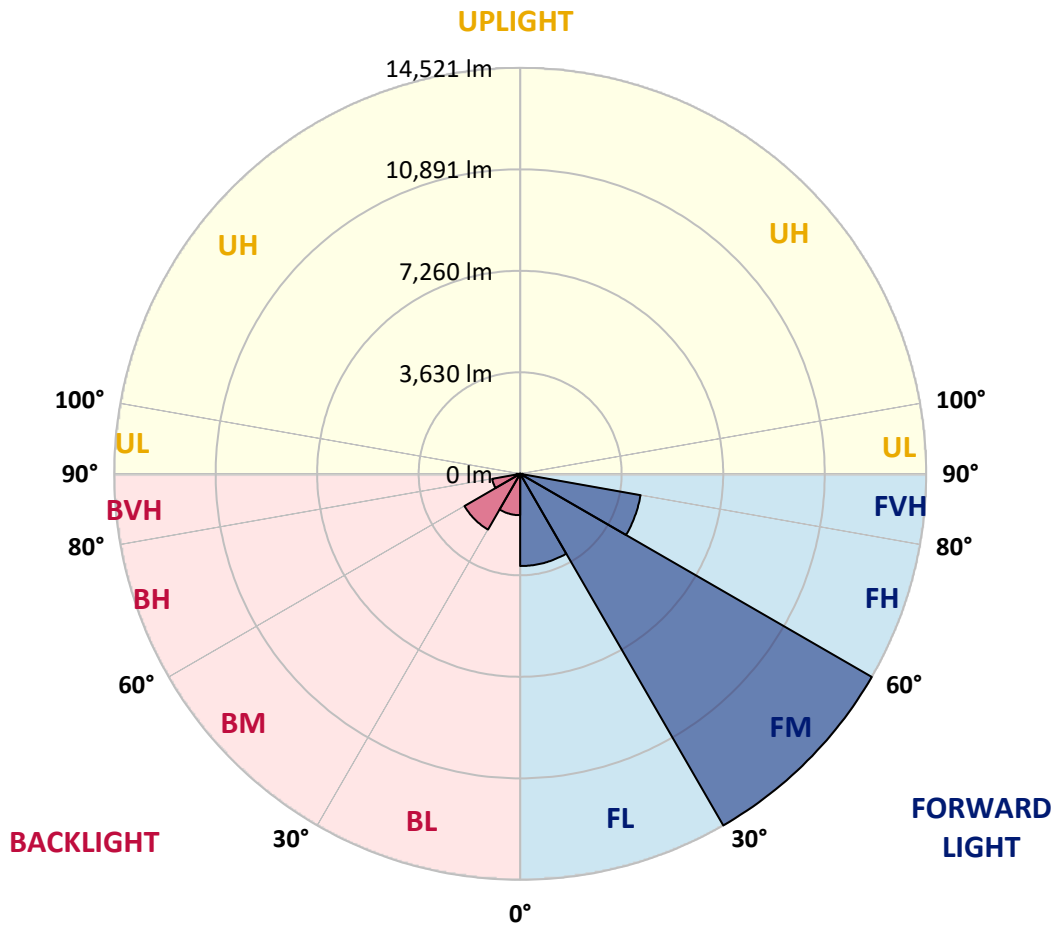
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3297.6	12.1			
FM (30°-60°)	14520.9	53.4			
FH (60°-80°)	4374.1	16.1			G2/5000
FVH (80°-90°)	91.9	0.3			G1/100
BL (0°-30°)	1479.7	5.4	B3/2500		
BM (30°-60°)	2301.0	8.5	B2/2500		
BH (60°-80°)	1016.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	125.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4
2.5°	7821.6	7815.9	7846.9	7741.4	7669.7	7572.6	7444.7	7281.5	7105.7	6920.0	6839.8
5°	8526.3	8477.1	8509.3	8430.6	8351.8	8205.5	8015.7	7749.8	7425.0	7055.1	6858.2
7.5°	8415.1	8381.4	8464.3	8534.7	8593.8	8575.5	8436.3	8157.8	7738.6	7201.3	6915.8
10°	7519.2	7481.2	7597.9	7841.2	8198.6	8509.3	8678.2	8505.1	8059.3	7361.7	6972.0
12.5°	6728.7	6710.5	6787.8	6984.8	7381.3	7977.7	8647.2	8809.0	8392.6	7551.6	7048.0
15°	6391.2	6368.6	6417.9	6517.8	6770.9	7326.5	8365.9	9017.1	8720.4	7770.9	7169.0
17.5°	6316.7	6291.3	6312.4	6364.4	6527.6	6950.9	7941.2	9119.8	9062.1	8015.7	7270.2
20°	6454.4	6433.4	6436.2	6433.4	6547.3	6883.5	7645.8	9080.4	9360.3	8240.7	7368.7
22.5°	6787.8	6752.6	6754.0	6679.5	6741.4	7001.6	7568.4	8974.9	9626.2	8437.6	7443.2
25°	7330.7	7267.5	7280.1	7090.2	7073.3	7266.0	7689.3	8893.3	9890.5	8595.1	7457.3
27.5°	8073.3	8001.7	7963.6	7680.9	7545.9	7641.6	7935.6	8921.5	10140.9	8731.6	7422.1
30°	9001.7	8914.4	8837.0	8436.3	8191.5	8156.3	8318.1	9107.1	10436.2	8875.1	7361.7
32.5°	10139.5	10038.2	9897.6	9365.9	9021.3	8837.0	8813.2	9437.7	10782.3	9057.9	7330.7
35°	11493.9	11361.8	11162.0	10474.3	10038.2	9661.3	9465.8	9914.5	11256.2	9333.5	7365.9
37.5°	12889.3	12740.1	12557.3	11738.7	11202.8	10647.3	10261.9	10561.5	11887.8	9707.7	7458.7
40°	14176.2	14008.8	13838.6	13110.1	12534.8	11865.3	11236.6	11380.1	12660.0	10155.0	7616.3
42.5°	14935.7	14812.0	14747.2	14353.4	13908.9	13229.6	12449.0	12350.5	13527.7	10669.7	7796.3
45°	14902.0	14851.3	15051.0	15214.2	15108.7	14731.7	13869.6	13423.7	14398.4	11115.6	7962.2
47.5°	14105.8	14139.7	14585.4	15502.5	15906.2	16103.1	15487.0	14477.2	15155.1	11448.9	8036.8
50°	11939.8	11968.0	13000.4	14977.9	16111.6	17221.2	17091.9	15505.4	15741.6	11652.9	8019.9
52.5°	10225.3	10243.5	10686.6	13422.3	15433.6	17783.9	18537.7	16474.4	16170.6	11709.2	7925.7
55°	7702.1	7765.3	8261.8	10530.5	13669.8	17338.0	19418.2	17473.1	16442.0	11714.8	7827.2
57.5°	4499.4	4568.3	5181.6	7147.8	10624.7	15783.9	19551.9	18359.2	16626.3	11669.8	7768.2
60°	2204.0	2233.6	2500.8	3756.8	6551.5	12789.3	18477.3	18788.1	16729.0	11645.8	7765.3
62.5°	1485.2	1481.0	1492.3	1853.8	3227.9	8216.8	16238.2	18037.0	16674.2	11554.4	7737.2
65°	1277.1	1261.7	1219.4	1301.0	1672.3	3758.2	12546.0	15795.0	16256.4	11325.2	7544.5
67.5°	1104.1	1105.6	1106.9	1081.6	1194.1	1734.2	7666.9	12442.0	14757.0	10239.3	6801.9
70°	914.2	926.9	932.5	932.5	973.3	1137.9	3272.9	8527.7	11640.2	8028.3	5478.3
72.5°	832.6	806.0	808.7	794.7	794.7	866.4	1317.9	4834.2	7333.6	4516.3	3343.2
75°	679.4	696.2	699.0	689.2	656.8	661.0	782.0	2028.2	3137.9	1873.5	1652.6
77.5°	586.5	586.5	592.1	585.1	559.8	495.1	521.8	786.3	1067.5	767.9	825.6
80°	471.2	469.8	493.6	507.8	468.3	365.7	333.3	434.6	474.0	337.5	429.0
82.5°	229.3	243.3	339.0	386.8	355.9	264.4	204.0	270.1	253.2	149.1	192.7
85°	133.7	126.6	151.9	215.1	204.0	146.3	98.5	140.6	132.2	76.0	77.4
87.5°	42.2	39.4	31.0	73.2	59.0	40.8	26.8	40.8	36.6	16.9	16.9
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4	6817.4
2.5°	6740.0	6574.0	6409.4	6259.0	6167.5	6108.5	6049.3	5983.2	5957.9	5920.0
5°	6672.4	6351.8	6066.3	5820.2	5596.5	5420.7	5243.5	5100.0	5035.3	5078.9
7.5°	6633.1	6169.0	5728.7	5277.2	4842.6	4495.2	4192.8	3980.4	3884.7	3908.7
10°	6597.9	5962.2	5291.3	4578.2	3953.7	3523.3	3213.9	3052.1	2991.7	3004.3
12.5°	6565.5	5730.2	4763.8	3825.7	3161.8	2877.7	2789.1	2790.5	2801.7	2810.2
15°	6560.0	5450.2	4174.5	3167.5	2734.3	2715.9	2811.6	2872.0	2904.4	2914.3
17.5°	6551.5	5115.5	3574.0	2718.8	2630.1	2754.0	2842.5	2881.9	2907.2	2908.6
20°	6517.8	4690.7	3019.8	2505.0	2607.7	2714.6	2769.4	2800.4	2821.4	2828.5
22.5°	6413.6	4218.1	2588.0	2409.4	2517.6	2603.4	2668.2	2703.3	2715.9	2724.4
25°	6226.6	3689.3	2289.7	2317.9	2392.5	2500.8	2552.8	2559.8	2555.6	2568.2
27.5°	5981.9	3122.5	2104.1	2194.1	2289.7	2382.6	2410.8	2406.5	2398.1	2412.1
30°	5686.5	2613.3	1985.9	2054.9	2185.7	2270.1	2295.4	2285.5	2268.7	2284.2
32.5°	5374.3	2197.0	1889.0	1957.9	2099.9	2182.9	2208.3	2198.4	2185.7	2198.4
35°	5083.1	1905.8	1798.9	1893.2	2032.4	2114.0	2146.4	2147.8	2147.8	2163.2
37.5°	4815.9	1735.6	1724.4	1852.4	1985.9	2059.1	2105.6	2108.3	2047.8	2052.0
40°	4568.3	1663.9	1690.6	1825.6	1940.9	2011.3	2014.1	1856.6	1745.5	1742.7
42.5°	4365.8	1649.8	1700.5	1822.9	1908.7	1911.4	1713.1	1590.8	1559.8	1561.2
45°	4176.0	1645.6	1722.9	1822.9	1860.8	1651.3	1517.6	1485.2	1488.1	1499.4
47.5°	3963.6	1628.7	1727.2	1797.5	1722.9	1468.4	1429.1	1414.9	1409.3	1412.1
50°	3731.5	1568.2	1673.7	1746.9	1486.7	1389.6	1340.4	1336.2	1343.3	1347.5
52.5°	3486.7	1469.8	1582.3	1655.5	1378.4	1320.7	1265.9	1275.7	1306.7	1316.5
55°	3326.4	1354.4	1461.3	1472.6	1302.5	1256.0	1209.6	1232.0	1289.8	1308.0
57.5°	3284.2	1232.0	1323.5	1310.9	1205.4	1199.8	1171.6	1191.4	1264.4	1291.2
60°	3271.5	1122.4	1188.5	1178.6	1111.1	1137.9	1130.9	1140.7	1166.0	1174.4
62.5°	3173.1	1035.1	1067.5	1053.5	1026.7	1073.2	1090.1	1069.0	1088.7	1098.5
65°	2922.7	964.8	949.4	939.5	950.8	993.0	1026.7	984.5	1002.9	1030.9
67.5°	2509.2	869.2	827.1	838.2	873.4	896.0	939.5	891.7	907.2	955.0
70°	2029.6	748.2	710.3	742.6	776.4	822.8	829.8	797.4	834.0	887.5
72.5°	1436.0	625.9	599.2	665.3	676.5	737.0	721.5	706.0	756.7	775.0
75°	995.8	504.9	489.4	540.1	580.9	632.9	621.7	640.0	746.8	755.3
77.5°	630.1	392.4	382.5	414.9	471.2	528.8	547.1	755.3	1275.7	1326.4
80°	365.7	292.5	281.3	306.6	355.9	409.3	527.5	926.9	841.1	831.3
82.5°	204.0	201.1	187.1	194.1	237.7	295.4	745.5	652.6	530.2	547.1
85°	95.6	118.2	101.3	97.1	133.7	346.0	497.9	372.7	247.5	241.9
87.5°	25.3	22.5	22.5	25.3	56.3	298.2	198.3	159.0	94.2	91.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)