

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: P962592

Luminaire Tested: **NVN-SB2C-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2C-827-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

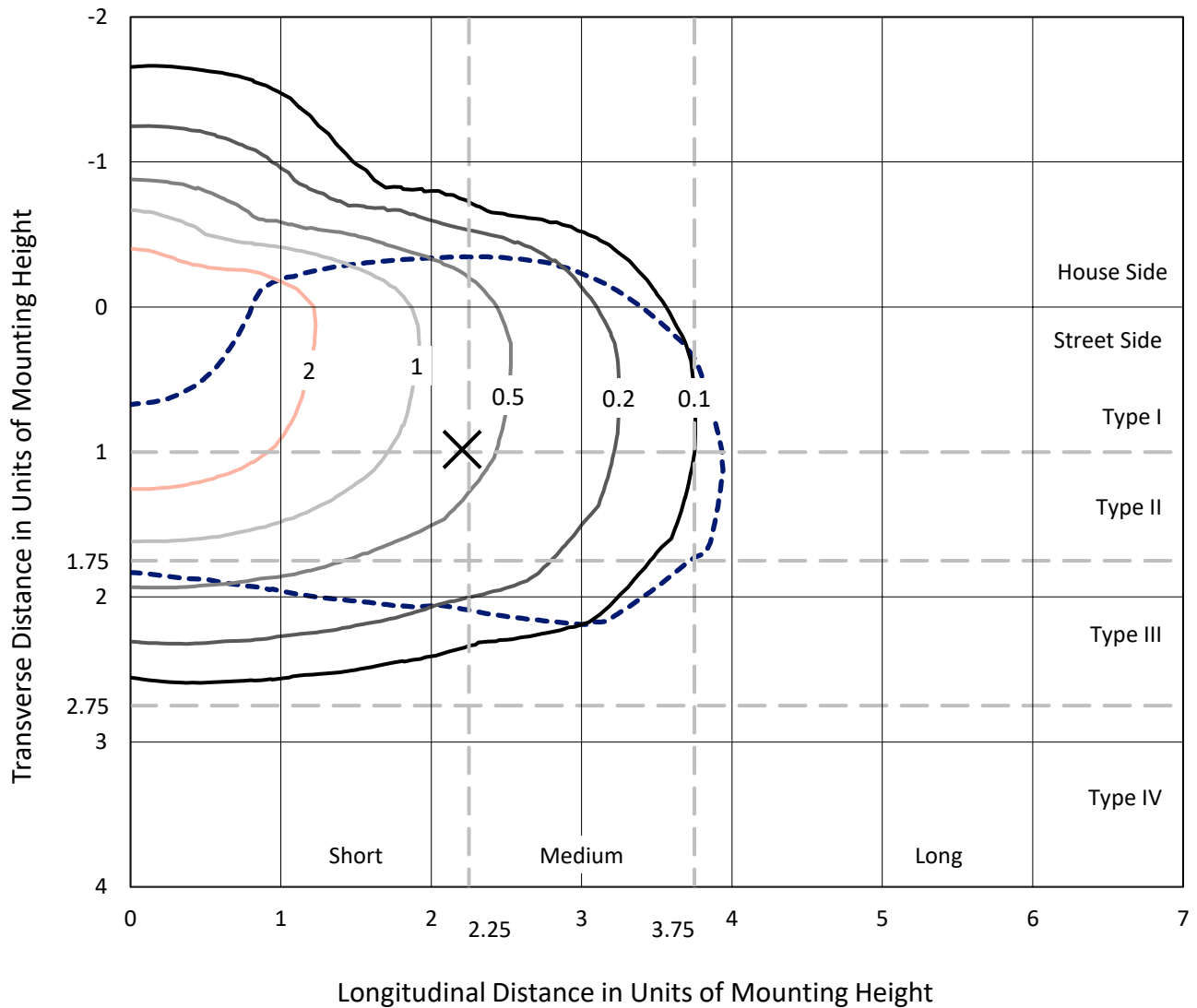
Lumens per Lamp: N/A  
Luminaire Lumens: 13357.8 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): 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

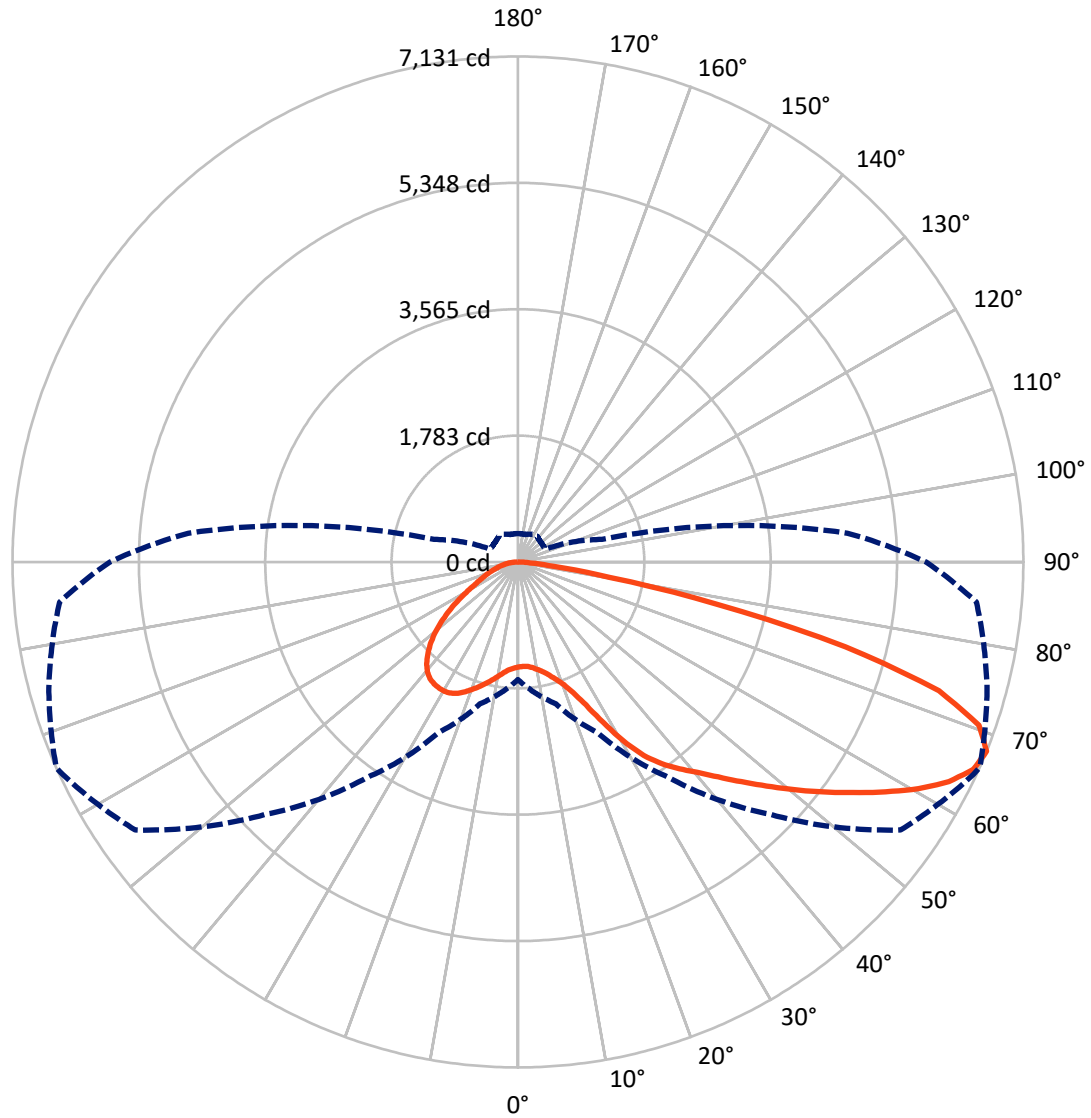
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3321.4	0.0	3321.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	10036.4	0.0	10036.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	13357.8	0.0	13357.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	1.1
10°-20°	485.3	3.6
20°-30°	935.4	7.0
30°-40°	1640.1	12.3
40°-50°	2438.3	18.3
50°-60°	3090.8	23.1
60°-70°	3024.2	22.6
70°-80°	1442.6	10.8
80°-90°	154.2	1.2
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°	13357.8	100.0
0°-180°	13357.8	100.0

**Coefficient of Utilization**



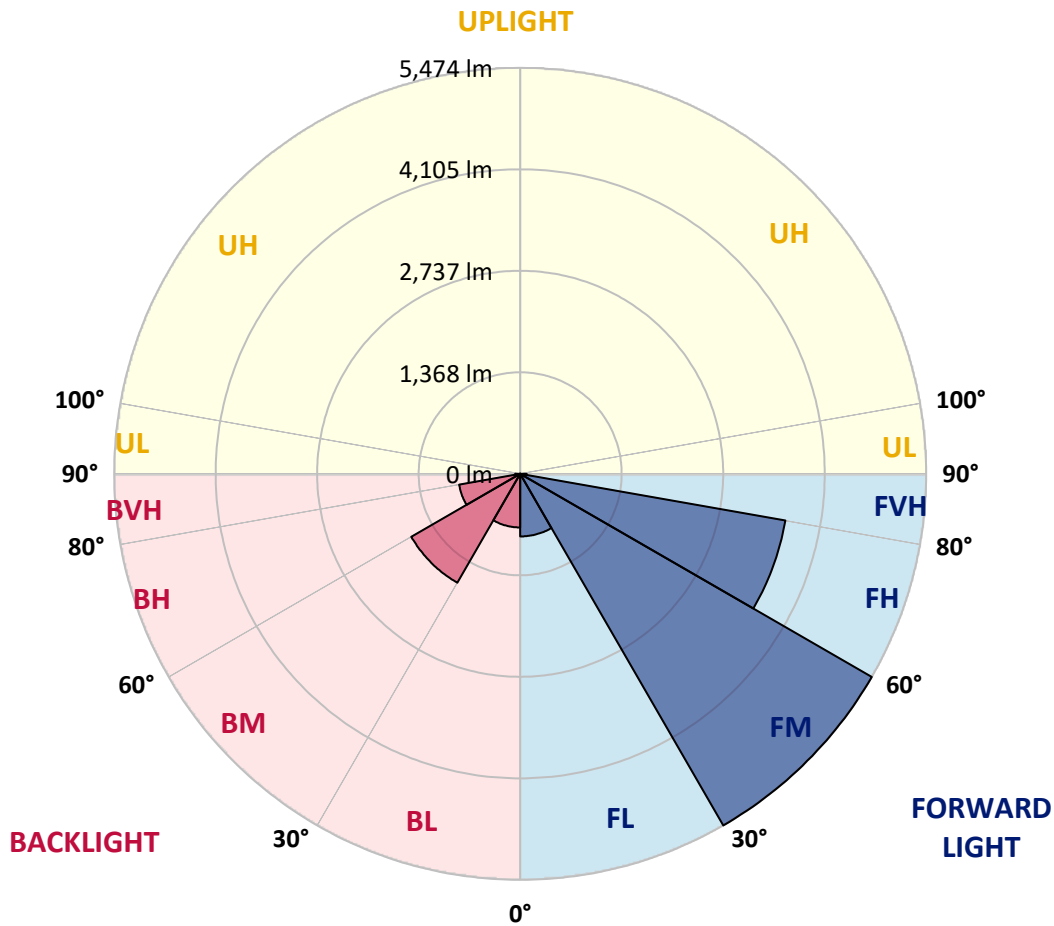
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.1	6.3			
FM (30°-60°)	5473.9	41.0			
FH (60°-80°)	3631.0	27.2			G2/5000
FVH (80°-90°)	87.4	0.7			G1/100
BL (0°-30°)	723.5	5.4	B2/1000		
BM (30°-60°)	1695.3	12.7	B2/2500		
BH (60°-80°)	835.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	66.8	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1466.2	1474.6	1472.4	1468.9	1468.2	1469.6	1471.7	1473.8	1473.1	1476.6	1482.3
5°	1461.9	1470.4	1469.6	1469.6	1472.4	1478.0	1481.5	1485.0	1481.5	1485.7	1493.5
7.5°	1464.7	1471.1	1473.8	1476.6	1483.7	1494.1	1502.6	1510.3	1506.1	1511.1	1520.9
10°	1500.5	1505.4	1508.2	1508.2	1513.1	1525.1	1533.5	1547.5	1544.1	1551.7	1564.4
12.5°	1565.8	1570.7	1570.7	1567.8	1571.4	1579.1	1581.9	1597.4	1591.0	1603.7	1616.3
15°	1645.7	1655.6	1647.9	1643.0	1644.4	1652.1	1651.4	1663.4	1657.0	1667.6	1678.7
17.5°	1734.2	1746.8	1734.2	1733.5	1730.7	1739.1	1739.8	1750.4	1739.1	1746.8	1754.6
20°	1838.7	1856.4	1845.8	1849.3	1843.0	1846.5	1850.0	1865.5	1847.9	1853.5	1851.5
22.5°	1986.1	2007.3	1996.0	2009.3	2005.1	2002.3	2001.6	2029.0	2001.6	2003.7	1983.4
25°	2200.9	2226.2	2206.5	2224.8	2224.8	2233.9	2244.4	2279.5	2233.9	2220.6	2168.0
27.5°	2518.1	2543.4	2504.8	2516.1	2512.6	2535.0	2523.8	2610.8	2561.7	2540.0	2434.0
30°	2899.9	2944.8	2871.8	2869.1	2865.6	2901.4	2917.5	2975.1	2925.2	2903.4	2775.7
32.5°	3312.6	3359.6	3272.6	3247.3	3234.0	3255.8	3242.5	3288.7	3254.4	3220.7	3062.8
35°	3749.1	3795.5	3712.7	3663.6	3610.2	3564.5	3516.9	3528.8	3496.5	3445.2	3281.7
37.5°	4161.8	4246.8	4159.0	4106.4	4008.2	3919.0	3785.6	3730.2	3700.0	3653.0	3488.1
40°	4582.3	4630.6	4564.0	4519.0	4412.4	4272.7	4059.4	3942.2	3901.5	3855.8	3716.1
42.5°	4891.7	4938.0	4902.3	4871.4	4787.9	4625.7	4349.9	4203.2	4144.3	4093.0	3974.4
45°	5137.4	5171.7	5149.3	5160.6	5124.7	4967.6	4651.0	4483.2	4422.3	4359.7	4266.4
47.5°	5236.3	5272.8	5308.6	5375.3	5436.4	5320.6	4974.5	4786.4	4721.9	4658.0	4566.1
50°	5225.1	5262.2	5366.2	5507.9	5697.5	5658.8	5315.6	5109.3	5049.7	4976.7	4891.7
52.5°	5135.2	5177.4	5310.7	5546.6	5848.3	5912.2	5663.0	5442.6	5386.5	5299.5	5214.6
55°	4899.5	4924.7	5124.7	5458.8	5884.1	6089.0	6003.4	5797.8	5741.6	5620.3	5527.6
57.5°	4462.2	4498.7	4789.9	5222.3	5794.3	6209.0	6302.4	6171.1	6117.1	5942.3	5845.5
60°	3891.6	3949.8	4283.3	4825.1	5565.4	6208.3	6574.0	6538.3	6493.3	6259.6	6158.5
62.5°	3246.0	3313.3	3634.0	4263.6	5165.5	6032.2	6743.9	6845.7	6822.5	6552.2	6423.2
65°	2492.9	2539.2	2858.5	3537.2	4542.9	5653.9	6763.5	7055.5	7059.7	6774.7	6561.3
67.5°	1659.8	1793.1	2070.4	2654.3	3709.2	5035.6	6590.9	7089.8	7130.5	6851.2	6491.9
70°	810.0	985.3	1257.0	1725.1	2654.3	4087.4	6139.5	6807.7	6898.2	6628.1	6077.8
72.5°	336.2	393.0	541.1	851.4	1523.7	2758.2	5232.8	6042.7	6210.5	5872.8	5110.0
75°	226.7	245.6	309.5	436.5	694.1	1360.2	3773.7	4505.7	4775.9	4435.6	3625.6
77.5°	174.8	186.7	225.3	305.2	412.7	514.4	2019.9	2715.3	2855.0	2643.1	1886.5
80°	137.6	146.7	168.4	222.5	292.6	275.1	688.5	1230.3	1311.0	1099.7	606.4
82.5°	119.3	122.8	120.7	150.9	194.4	160.7	226.0	454.1	501.1	363.6	197.9
85°	86.3	96.1	100.3	93.4	103.2	81.4	92.7	160.7	176.8	158.0	111.6
87.5°	35.1	52.0	63.9	60.4	37.9	23.2	28.8	47.0	54.0	58.9	36.5
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°	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5	1481.5
2.5°	1483.0	1487.9	1491.4	1495.6	1498.4	1502.6	1511.1	1516.0	1516.7	1520.2	1519.5
5°	1496.3	1503.3	1511.1	1522.2	1534.9	1545.4	1561.6	1572.8	1577.0	1580.6	1579.8
7.5°	1525.1	1534.9	1549.0	1568.6	1586.8	1600.8	1620.5	1633.8	1647.2	1652.1	1652.8
10°	1567.8	1581.9	1602.3	1628.9	1648.6	1666.9	1687.2	1698.4	1711.7	1717.4	1720.2
12.5°	1621.2	1636.0	1662.7	1699.9	1718.1	1730.7	1737.7	1734.9	1737.7	1742.6	1744.0
15°	1682.2	1698.4	1728.6	1768.6	1781.2	1770.0	1754.6	1740.6	1738.4	1739.8	1744.8
17.5°	1754.6	1766.5	1801.5	1835.3	1826.1	1779.8	1746.2	1723.6	1712.5	1709.0	1713.9
20°	1855.7	1855.7	1884.4	1905.5	1844.4	1765.8	1713.2	1676.7	1653.5	1643.7	1641.5
22.5°	1978.5	1967.2	1985.4	1970.8	1840.9	1726.5	1653.5	1590.4	1555.2	1541.2	1539.1
25°	2134.3	2120.9	2116.0	2024.8	1815.6	1664.0	1545.4	1468.9	1438.1	1430.3	1431.7
27.5°	2369.4	2335.7	2271.8	2054.2	1769.4	1565.8	1419.1	1348.2	1330.7	1331.4	1333.4
30°	2682.4	2615.0	2458.5	2059.1	1693.5	1426.8	1290.0	1239.4	1231.0	1234.5	1246.4
32.5°	2972.2	2908.3	2649.4	2036.7	1577.0	1290.7	1174.1	1140.5	1127.8	1132.0	1137.6
35°	3199.6	3182.1	2826.2	2005.1	1433.9	1163.0	1070.3	1041.5	1016.9	1011.4	1015.6
37.5°	3414.4	3407.4	2958.9	1960.9	1292.0	1072.4	986.8	948.8	913.1	893.4	894.1
40°	3650.2	3643.2	3045.9	1892.9	1166.4	993.7	911.6	861.8	817.6	781.9	785.4
42.5°	3915.5	3874.1	3087.3	1795.3	1059.7	927.1	850.6	783.2	725.0	692.0	694.1
45°	4205.4	4112.0	3086.7	1671.1	970.0	866.0	785.4	689.9	635.8	605.0	603.5
47.5°	4512.8	4339.4	3048.8	1533.5	882.9	798.7	684.3	611.3	575.5	556.6	552.4
50°	4830.0	4552.0	2984.2	1375.6	793.8	722.2	621.2	571.3	543.9	526.3	520.1
52.5°	5128.3	4745.0	2906.3	1196.6	703.3	647.8	593.1	554.4	525.6	506.0	497.6
55°	5405.4	4911.4	2796.1	1013.4	629.6	598.0	579.7	547.5	514.4	491.3	482.2
57.5°	5651.8	5019.4	2605.9	841.5	576.9	563.5	565.7	535.5	497.6	478.0	465.4
60°	5856.7	5098.8	2324.5	682.1	534.1	529.9	543.9	513.0	468.8	446.4	436.5
62.5°	5979.5	5097.3	1979.2	558.6	497.6	499.0	515.2	484.9	440.0	419.0	412.7
65°	5969.1	4972.5	1600.1	478.0	462.5	463.9	484.9	454.1	416.2	403.5	402.8
67.5°	5757.8	4667.8	1227.5	425.3	423.9	430.2	454.8	433.1	401.5	400.1	402.1
70°	5185.8	4035.5	884.3	383.2	383.9	393.0	425.3	419.7	393.7	396.6	395.9
72.5°	4158.3	3076.8	593.8	339.0	339.7	354.4	397.2	409.2	386.0	423.2	428.9
75°	2769.4	1918.8	381.8	291.9	292.6	311.6	372.7	388.8	364.9	421.8	425.3
77.5°	1330.7	862.5	276.5	245.6	245.6	263.2	322.2	348.1	310.9	327.8	300.4
80°	459.7	324.2	217.6	197.9	193.7	205.6	271.6	301.8	268.1	247.0	231.6
82.5°	181.1	168.4	174.8	153.8	139.7	147.4	211.3	249.2	197.2	178.2	177.5
85°	103.8	109.5	123.5	101.8	80.7	90.5	155.1	179.0	148.8	131.2	134.1
87.5°	28.1	38.6	56.9	52.7	36.5	38.6	73.7	98.9	85.6	66.0	68.1
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)