

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: LUMARK

Report Number: P967642

Luminaire Tested: **NAV-SB5A-722-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

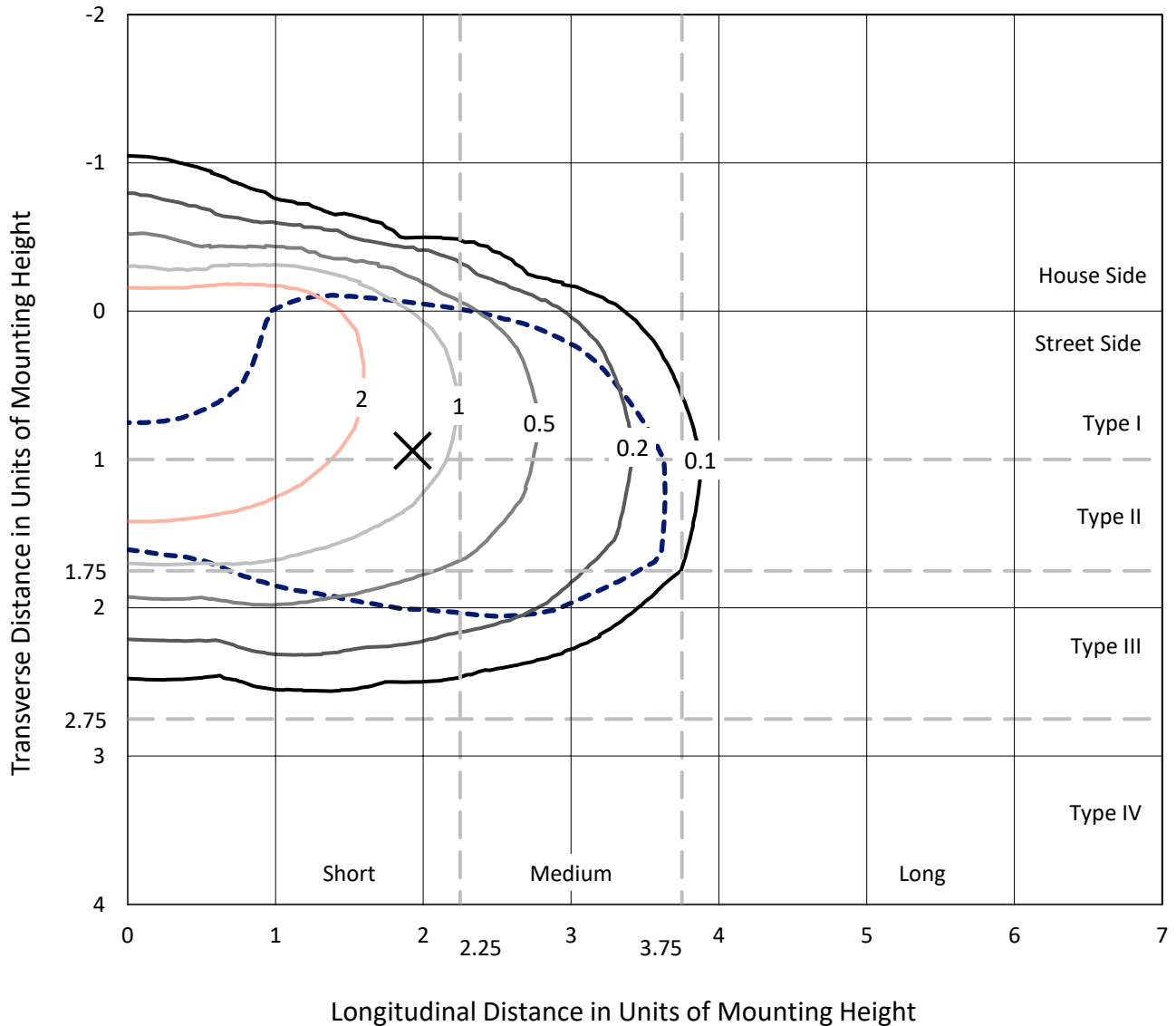
Lumens per Lamp: N/A  
Luminaire Lumens: 15048 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

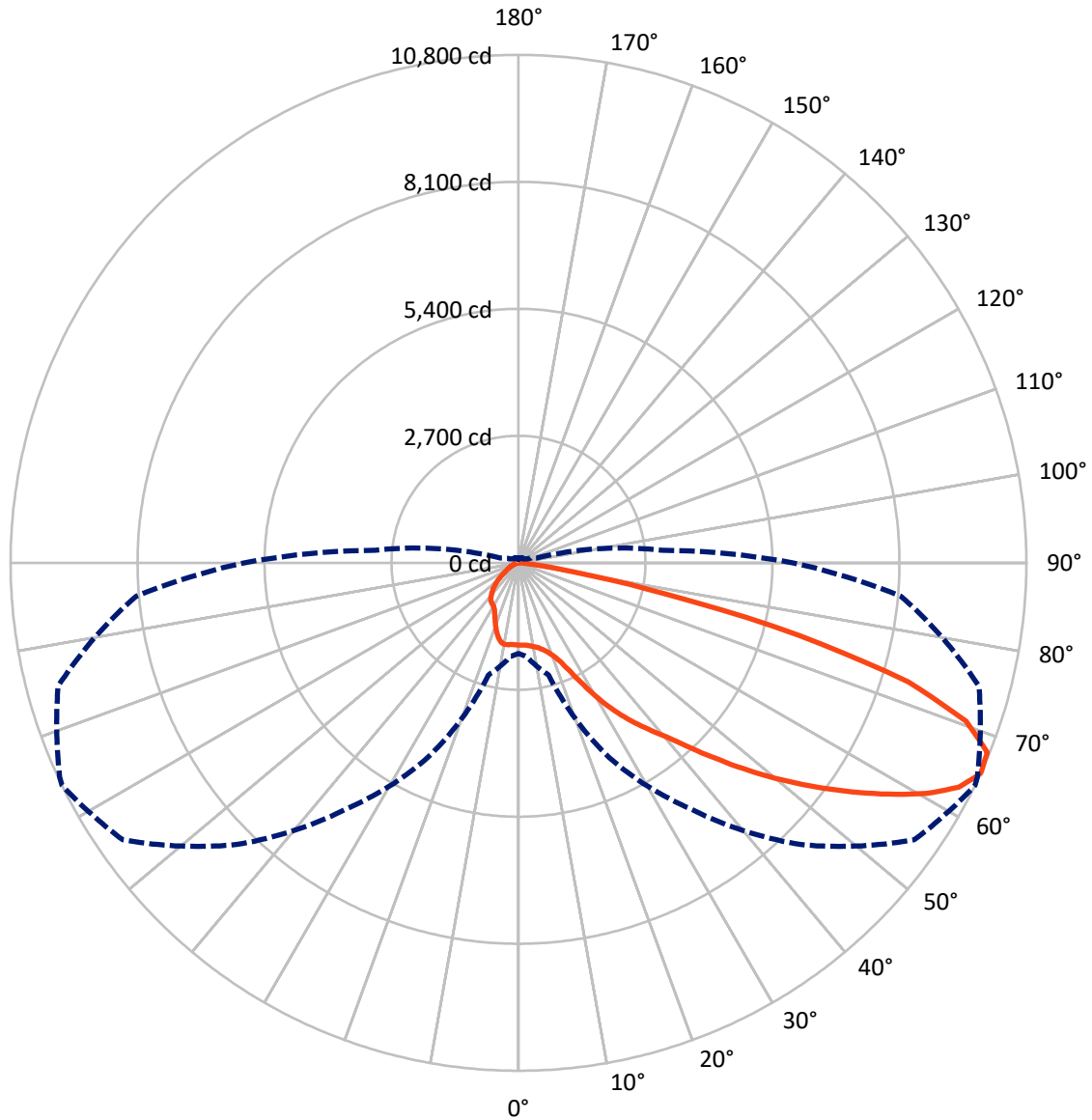
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2012.4	0.0	2012.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	13035.7	0.0	13035.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	15048.0	0.0	15048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	1.1
10°-20°	438.0	2.9
20°-30°	829.9	5.5
30°-40°	1679.4	11.2
40°-50°	2860.8	19.0
50°-60°	3890.5	25.9
60°-70°	3653.4	24.3
70°-80°	1463.7	9.7
80°-90°	70.9	0.5
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°	15048.0	100.0
0°-180°	15048.0	100.0

**Coefficient of Utilization**



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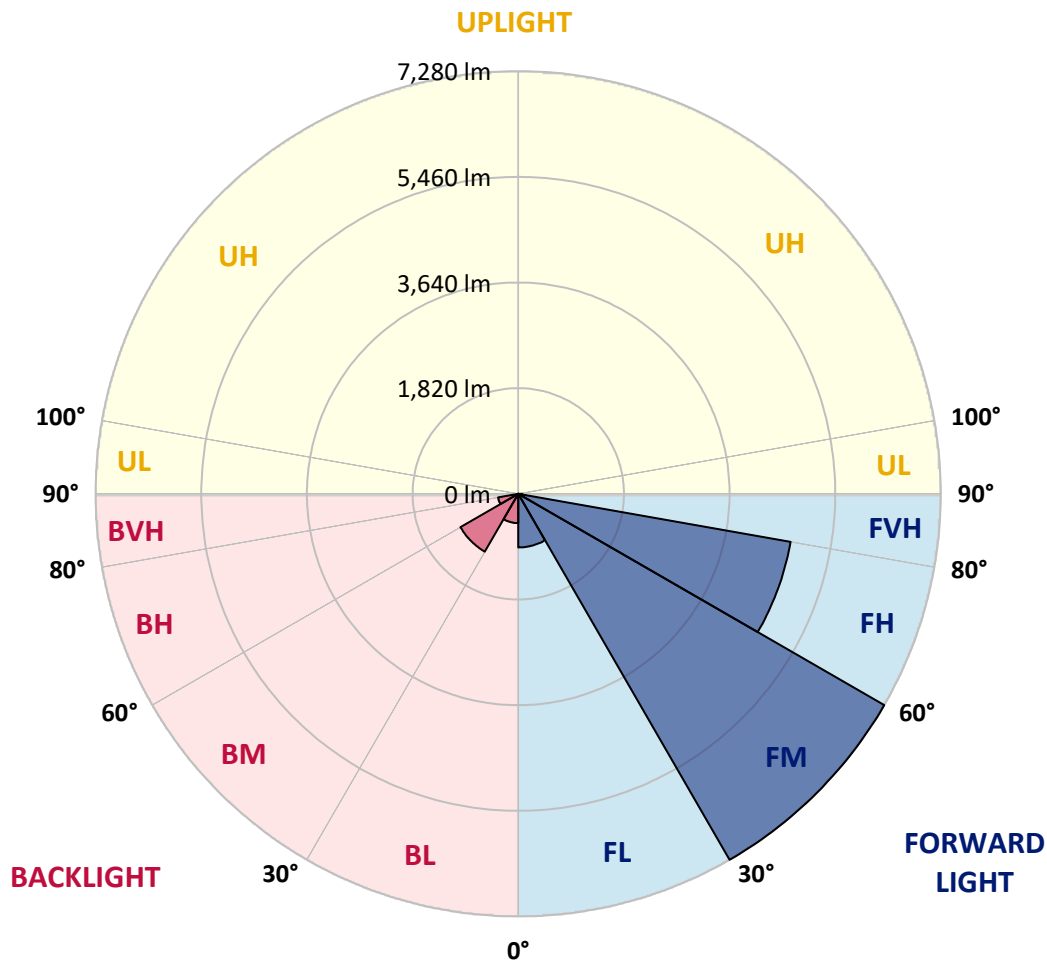
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.1	6.1			
FM (30°-60°)	7280.2	48.4			
FH (60°-80°)	4763.9	31.7			G2/5000
FVH (80°-90°)	67.4	0.4			G1/100
BL (0°-30°)	505.3	3.4	B2/1000		
BM (30°-60°)	1150.5	7.6	B2/2500		
BH (60°-80°)	353.2	2.3	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
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°	64°	65°	75°	85°
0°	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3
2.5°	1744.1	1756.3	1753.3	1750.3	1749.3	1751.2	1752.2	1751.2	1751.2	1751.2	1752.2
5°	1710.9	1721.0	1721.0	1728.0	1738.1	1750.3	1759.3	1761.4	1763.3	1766.4	1765.4
7.5°	1647.4	1655.4	1661.4	1684.7	1709.9	1742.2	1769.5	1783.5	1785.6	1796.6	1800.7
10°	1603.9	1614.1	1624.1	1648.4	1684.7	1733.1	1779.5	1813.8	1818.9	1845.1	1857.2
12.5°	1602.0	1612.0	1625.1	1651.4	1693.7	1745.2	1801.6	1851.2	1860.2	1898.5	1923.7
15°	1623.1	1635.3	1647.4	1679.7	1725.0	1787.6	1848.1	1909.7	1918.7	1973.2	2000.4
17.5°	1666.5	1682.6	1691.8	1724.0	1772.4	1842.0	1921.8	1992.4	2000.4	2063.9	2098.3
20°	1752.2	1771.4	1774.5	1800.7	1848.1	1922.7	2017.6	2105.4	2115.4	2188.1	2226.4
22.5°	1929.8	1957.0	1932.8	1946.0	1988.3	2062.9	2165.8	2276.8	2291.0	2373.7	2407.9
25°	2242.5	2280.8	2218.3	2196.2	2214.3	2292.0	2421.0	2561.3	2577.5	2644.0	2661.2
27.5°	2856.9	2807.5	2712.7	2619.8	2565.4	2609.8	2755.0	2928.5	2948.7	3013.2	2993.1
30°	3531.7	3488.4	3360.3	3154.4	3025.4	3018.3	3152.5	3346.1	3369.4	3430.9	3369.4
32.5°	4207.6	4166.3	4027.0	3773.8	3549.9	3439.0	3531.7	3746.6	3758.8	3798.0	3707.3
35°	4872.4	4830.1	4690.8	4431.6	4156.2	3904.0	3885.9	4128.0	4132.0	4173.4	4038.2
37.5°	5541.3	5506.0	5357.7	5103.5	4832.1	4484.1	4315.6	4489.1	4494.1	4534.5	4394.3
40°	6018.4	6033.6	5931.7	5735.0	5501.9	5121.6	4797.8	4873.5	4843.1	4910.8	4827.0
42.5°	6428.0	6458.2	6369.5	6270.6	6135.4	5800.5	5395.0	5381.9	5333.5	5369.8	5283.1
45°	6782.0	6807.2	6727.6	6704.4	6701.3	6466.3	6047.7	5969.0	5901.4	5894.4	5790.4
47.5°	6912.2	6960.6	6994.9	7072.6	7223.9	7125.1	6722.6	6600.5	6524.8	6469.3	6304.9
50°	6961.6	7013.0	7130.1	7356.0	7714.2	7756.6	7394.4	7257.2	7164.3	7063.5	6821.4
52.5°	6895.1	6986.8	7144.2	7524.5	8044.1	8262.9	8039.0	7918.9	7813.1	7648.7	7289.5
55°	6502.6	6594.4	6916.2	7522.5	8208.5	8618.1	8648.3	8594.8	8475.8	8216.5	7667.8
57.5°	5675.4	5811.6	6321.1	7266.3	8205.4	8923.8	9245.5	9283.8	9150.7	8779.4	7965.4
60°	4529.5	4714.1	5335.4	6698.4	7952.3	9089.2	9769.1	9960.7	9819.5	9334.3	8206.5
62.5°	3160.5	3374.4	3962.5	5808.6	7373.2	8970.1	10151.4	10505.5	10398.5	9830.6	8299.3
65°	1927.8	1996.4	2470.6	4570.8	6388.6	8471.7	10269.5	10800.0	10764.8	10134.3	8162.1
67.5°	1284.2	1341.7	1477.8	3134.2	4959.2	7476.1	9987.0	10748.6	10758.7	10084.9	7659.7
70°	773.8	823.2	911.9	1822.9	3214.0	5917.5	9112.4	10092.9	10151.4	9424.1	6707.4
72.5°	318.8	352.1	432.8	826.2	1664.5	3755.7	7256.2	8665.5	8801.7	7924.0	5147.9
75°	180.6	197.7	254.2	414.6	722.3	1750.3	4395.3	6151.5	6352.3	5461.6	3096.9
77.5°	120.0	128.1	164.4	268.3	406.5	597.2	1878.3	3204.9	3588.2	2983.0	1340.7
80°	80.7	87.7	113.0	179.6	264.3	256.2	598.2	1187.4	1460.7	1024.9	326.9
82.5°	54.4	55.5	80.7	118.0	167.5	124.1	176.5	369.2	464.0	296.5	124.1
85°	31.3	30.2	59.6	68.6	74.6	51.5	53.5	111.0	145.2	125.0	70.6
87.5°	4.0	6.0	23.2	18.1	10.0	11.1	11.1	19.2	28.3	30.2	15.2
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°	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3	1750.3
2.5°	1752.2	1751.2	1748.2	1745.2	1738.1	1734.1	1736.1	1734.1	1733.1	1734.1	1738.1
5°	1765.4	1762.4	1754.3	1744.1	1730.1	1712.9	1701.8	1685.7	1670.5	1661.4	1663.5
7.5°	1800.7	1797.6	1786.6	1758.3	1712.9	1641.3	1575.7	1518.2	1474.9	1449.7	1450.7
10°	1857.2	1852.2	1835.0	1772.4	1653.4	1497.0	1366.9	1259.0	1188.4	1155.1	1152.0
12.5°	1923.7	1917.7	1887.4	1759.3	1540.4	1296.3	1116.7	996.7	931.1	901.9	898.8
15°	2002.4	1994.3	1934.9	1696.8	1376.0	1074.4	909.9	820.1	777.8	751.5	752.6
17.5°	2100.3	2086.2	1970.2	1603.0	1197.4	904.9	782.8	715.2	677.9	652.7	650.7
20°	2227.4	2204.2	1998.4	1491.0	1033.0	798.0	697.1	640.6	612.3	590.1	586.1
22.5°	2405.0	2371.6	2032.7	1369.9	917.0	724.3	633.6	592.1	569.0	543.8	539.7
25°	2624.8	2585.6	2075.1	1258.0	837.3	660.7	587.1	552.8	525.6	496.3	493.3
27.5°	2932.5	2861.9	2125.5	1166.1	768.6	606.3	544.8	506.5	475.1	450.9	445.9
30°	3275.5	3159.6	2169.9	1110.7	706.1	555.9	489.2	450.9	421.7	404.6	401.5
32.5°	3600.3	3443.0	2199.1	1086.5	649.6	498.4	428.8	387.3	365.2	360.2	363.2
35°	3907.0	3699.2	2196.2	1063.2	599.2	440.9	369.2	326.9	309.7	312.7	312.7
37.5°	4260.1	3972.6	2174.9	1026.9	557.9	388.4	317.8	280.4	265.3	266.3	270.4
40°	4670.7	4288.4	2161.8	958.4	512.5	340.0	275.4	245.2	234.0	230.0	229.0
42.5°	5108.5	4594.0	2163.9	880.7	455.9	296.5	246.1	220.9	210.8	207.8	206.8
45°	5548.3	4885.6	2166.8	800.0	396.5	263.3	225.0	203.8	197.7	193.7	193.7
47.5°	5961.9	5133.7	2110.4	713.2	337.9	238.1	207.8	193.7	188.6	183.6	183.6
50°	6347.3	5299.1	1974.2	612.3	291.5	217.9	194.6	184.6	179.6	174.6	174.6
52.5°	6646.9	5325.4	1749.3	508.4	259.2	202.7	186.7	177.5	171.5	166.5	165.4
55°	6780.1	5161.0	1429.5	411.5	234.0	189.6	178.6	169.4	162.5	157.3	156.3
57.5°	6745.7	4814.9	1114.7	330.9	209.8	176.5	168.5	162.5	154.4	146.3	145.2
60°	6577.3	4351.9	840.3	275.4	187.7	162.5	157.3	152.3	141.2	129.1	127.1
62.5°	6285.7	3769.8	599.2	228.0	163.4	146.3	144.2	140.2	124.1	101.9	99.8
65°	5839.8	3062.7	403.5	189.6	140.2	128.1	129.1	122.1	100.9	75.6	73.6
67.5°	5188.1	2239.5	258.3	155.4	117.1	106.9	107.9	103.9	85.8	64.6	61.5
70°	4358.0	1482.9	168.5	118.0	93.8	82.7	88.8	89.8	72.7	52.5	50.4
72.5°	3194.8	875.7	118.0	87.7	68.6	57.5	72.7	74.6	58.5	39.4	37.3
75°	1820.8	415.6	88.8	63.6	42.3	40.4	56.5	56.5	40.4	26.2	24.2
77.5°	764.6	173.5	62.5	41.4	24.2	23.2	38.3	35.3	20.2	12.1	12.1
80°	220.9	77.7	33.3	20.2	10.0	9.1	15.2	11.1	5.0	2.0	2.0
82.5°	86.7	34.3	13.1	8.1	4.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	51.5	14.1	6.0	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	3.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)