

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: P962899

Luminaire Tested: **NAV-SB2D-722-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962899  
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-SB2D-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

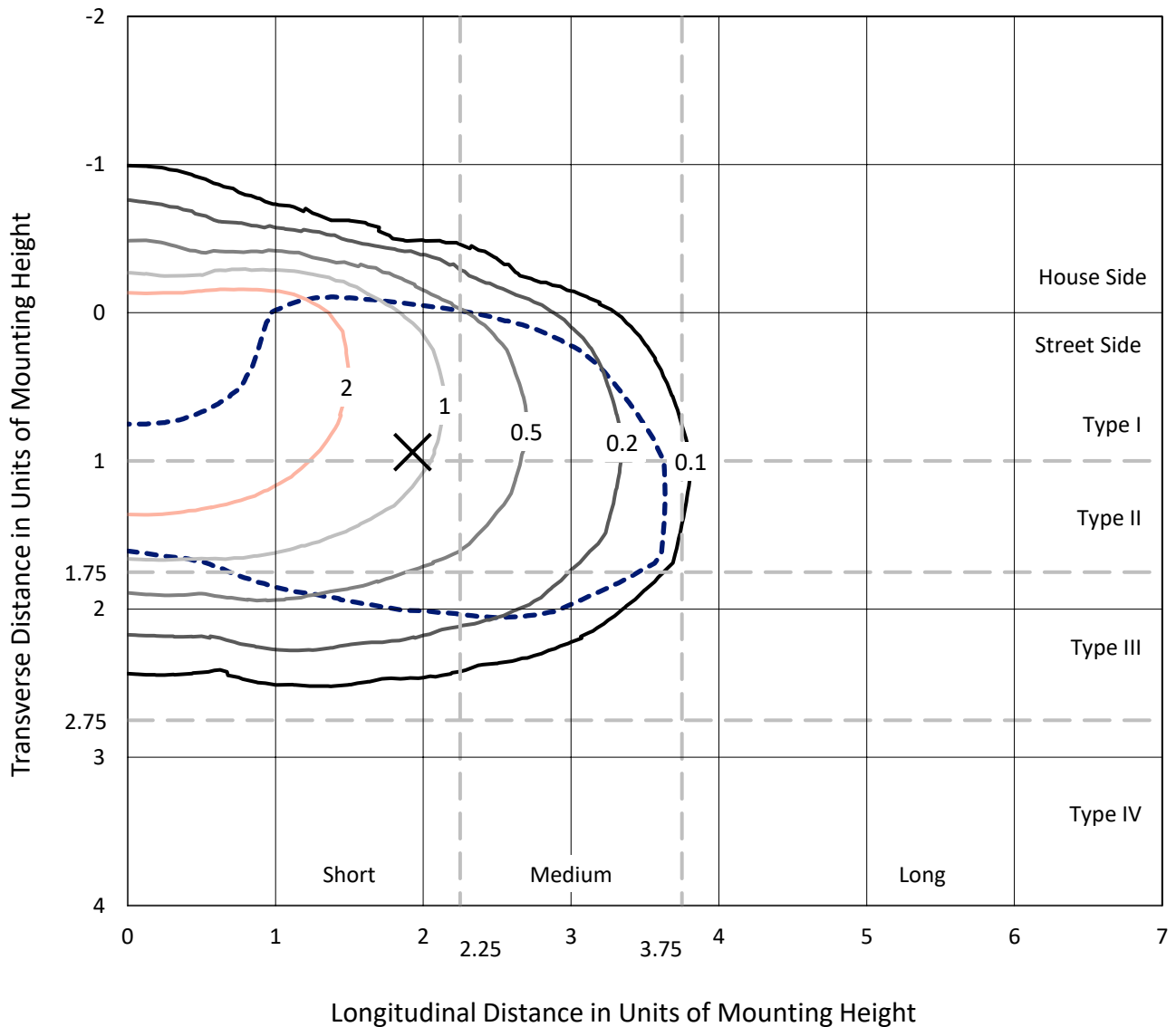
Lumens per Lamp: N/A  
Luminaire Lumens: 13514.6 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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

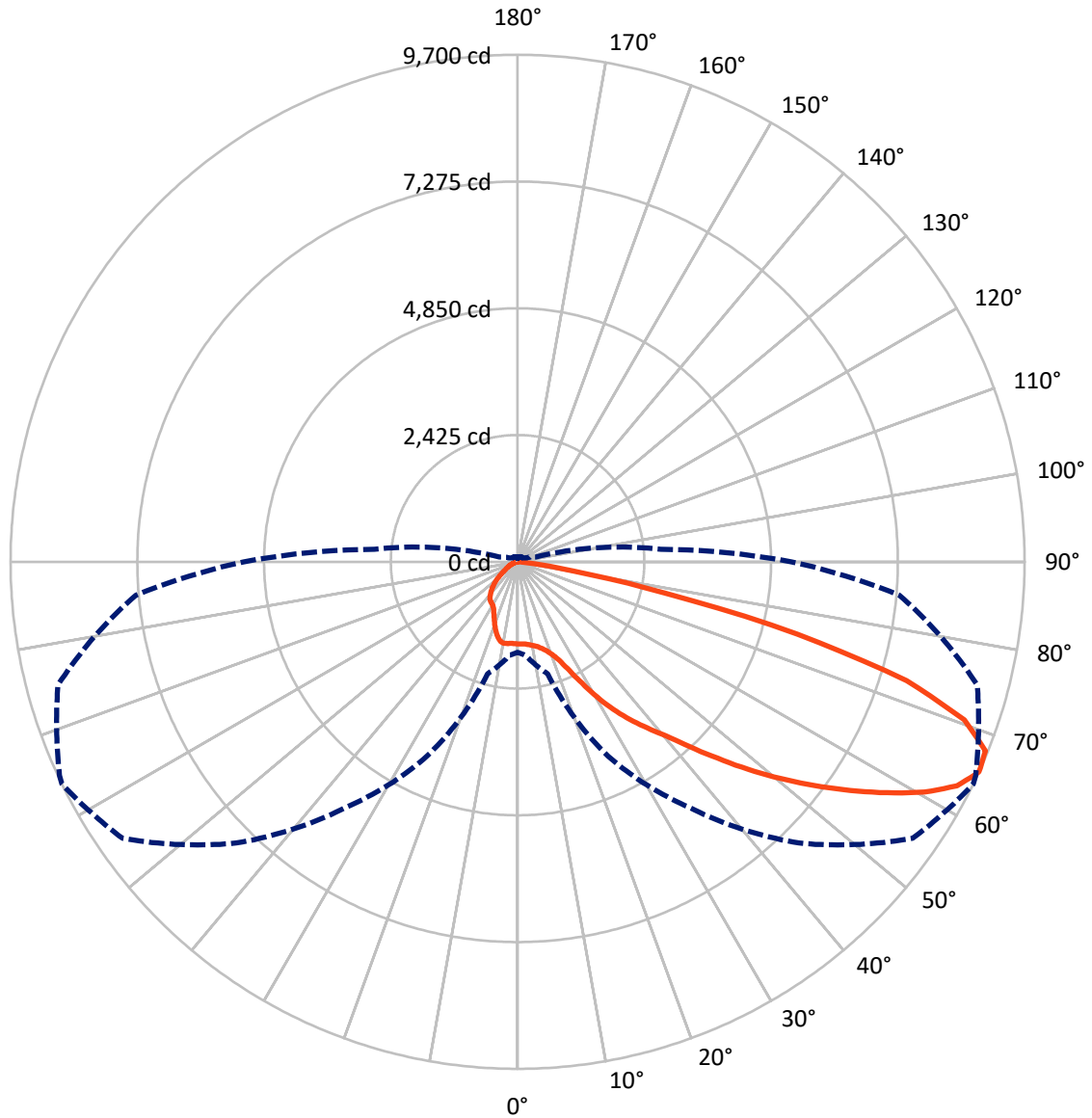
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1807.3	0.0	1807.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	11707.3	0.0	11707.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	13514.6	0.0	13514.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	1.1
10°-20°	393.3	2.9
20°-30°	745.3	5.5
30°-40°	1508.2	11.2
40°-50°	2569.3	19.0
50°-60°	3494.1	25.9
60°-70°	3281.1	24.3
70°-80°	1314.5	9.7
80°-90°	63.7	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°	13514.6	100.0
0°-180°	13514.6	100.0

**Coefficient of Utilization**



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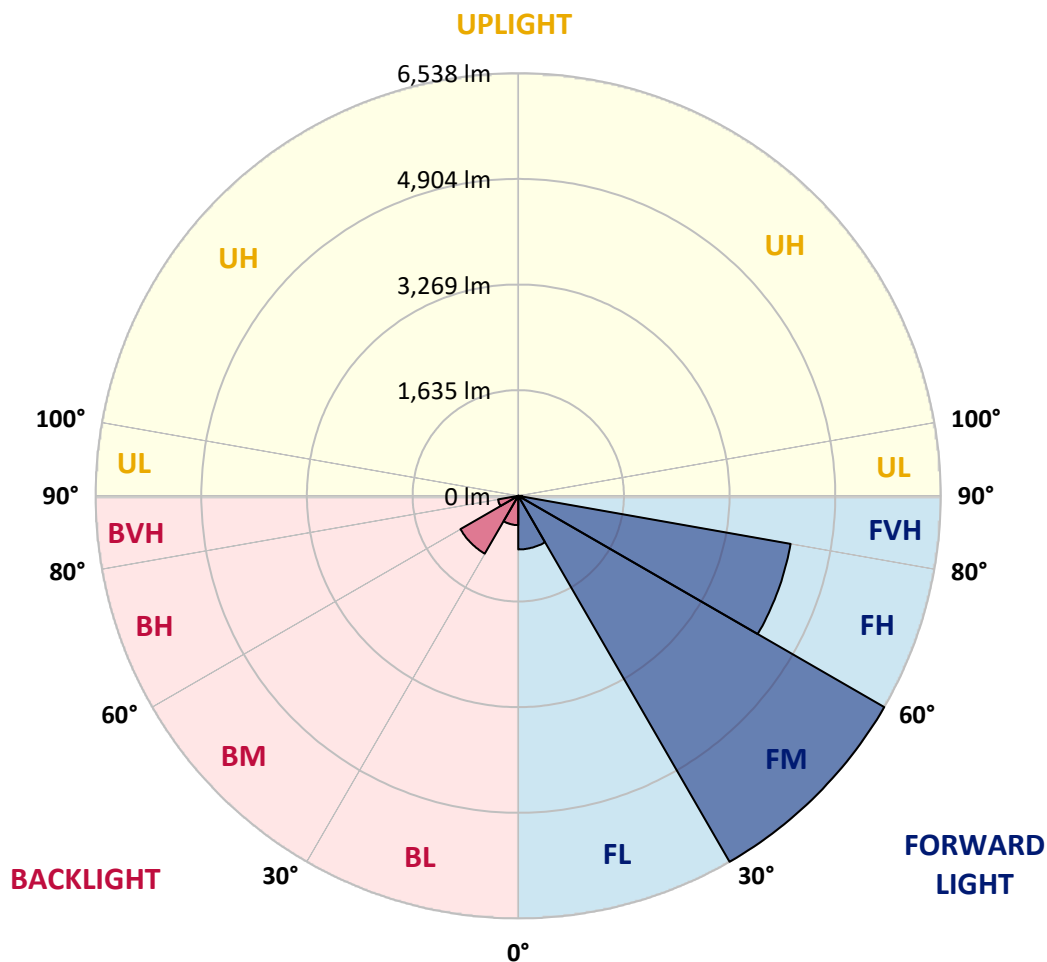
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	830.0	6.1			
FM (30°-60°)	6538.4	48.4			
FH (60°-80°)	4278.4	31.7			G2/5000
FVH (80°-90°)	60.6	0.4			G1/100
BL (0°-30°)	453.8	3.4	B1/500		
BM (30°-60°)	1033.2	7.6	B2/2500		
BH (60°-80°)	317.2	2.3	B1/500		G1/500
BVH (80°-90°)	3.1	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°	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9
2.5°	1566.4	1577.4	1574.6	1571.9	1571.0	1572.8	1573.7	1572.8	1572.8	1572.8	1573.7
5°	1536.6	1545.6	1545.6	1552.0	1561.0	1571.9	1580.0	1581.9	1583.6	1586.4	1585.5
7.5°	1479.5	1486.8	1492.2	1513.0	1535.7	1564.7	1589.1	1601.8	1603.6	1613.6	1617.1
10°	1440.5	1449.6	1458.7	1480.4	1513.0	1556.5	1598.2	1628.9	1633.5	1657.0	1667.9
12.5°	1438.7	1447.8	1459.5	1483.1	1521.2	1567.3	1618.1	1662.4	1670.6	1705.1	1727.7
15°	1457.8	1468.6	1479.5	1508.5	1549.3	1605.5	1659.8	1715.0	1723.2	1772.1	1796.6
17.5°	1496.7	1511.2	1519.4	1548.4	1591.8	1654.4	1725.9	1789.3	1796.6	1853.6	1884.5
20°	1573.7	1590.9	1593.7	1617.1	1659.8	1726.8	1812.0	1890.8	1899.8	1965.1	1999.5
22.5°	1733.2	1757.7	1735.8	1747.6	1785.8	1852.8	1945.1	2044.8	2057.5	2131.8	2162.5
25°	2014.0	2048.5	1992.3	1972.3	1988.6	2058.4	2174.3	2300.3	2314.8	2374.6	2390.0
27.5°	2565.8	2521.4	2436.2	2352.9	2303.9	2343.8	2474.2	2630.0	2648.2	2706.2	2688.1
30°	3171.9	3132.9	3017.8	2833.0	2717.1	2710.7	2831.3	3005.2	3026.0	3081.3	3026.0
32.5°	3778.9	3741.8	3616.7	3389.3	3188.2	3088.5	3171.9	3364.9	3375.7	3411.1	3329.5
35°	4375.9	4337.9	4212.9	3980.0	3732.6	3506.2	3489.9	3707.3	3710.9	3748.1	3626.7
37.5°	4976.6	4944.9	4811.7	4583.4	4339.6	4027.1	3875.8	4031.6	4036.1	4072.4	3946.5
40°	5405.1	5418.8	5327.2	5150.5	4941.2	4599.7	4308.9	4376.9	4349.7	4410.4	4335.1
42.5°	5773.0	5800.2	5720.4	5631.7	5510.2	5209.5	4845.3	4833.5	4789.9	4822.6	4744.6
45°	6091.0	6113.6	6042.1	6021.2	6018.5	5807.3	5431.4	5360.7	5300.1	5293.7	5200.3
47.5°	6207.8	6251.4	6282.1	6351.9	6487.7	6399.0	6037.6	5927.9	5859.9	5810.1	5662.4
50°	6252.2	6298.4	6403.5	6606.4	6928.1	6966.1	6640.9	6517.7	6434.3	6343.7	6126.3
52.5°	6192.4	6274.8	6416.2	6757.7	7224.4	7421.0	7219.8	7112.1	7016.8	6869.2	6546.7
55°	5840.0	5922.4	6211.5	6756.0	7372.0	7739.9	7767.0	7719.1	7612.2	7379.3	6886.5
57.5°	5097.1	5219.4	5677.0	6525.9	7369.3	8014.4	8303.4	8337.9	8218.2	7884.8	7153.7
60°	4067.9	4233.7	4791.8	6015.7	7141.9	8163.0	8773.6	8945.7	8818.9	8383.2	7370.3
62.5°	2838.4	3030.5	3558.7	5216.6	6621.9	8056.1	9117.0	9435.0	9339.0	8828.8	7453.6
65°	1731.3	1792.9	2218.8	4105.0	5737.6	7608.5	9222.9	9699.5	9667.8	9101.6	7330.4
67.5°	1153.3	1205.0	1327.3	2815.0	4453.8	6714.3	8969.3	9653.3	9662.4	9057.2	6879.2
70°	694.8	739.3	819.0	1637.1	2886.5	5314.5	8183.8	9064.4	9117.0	8463.7	6023.9
72.5°	286.3	316.2	388.7	742.0	1494.9	3373.0	6516.7	7782.4	7904.8	7116.6	4623.3
75°	162.2	177.5	228.3	372.4	648.7	1571.9	3947.4	5524.7	5705.0	4905.0	2781.3
77.5°	107.8	115.1	147.7	241.0	365.1	536.4	1686.9	2878.3	3222.6	2679.0	1204.1
80°	72.5	78.8	101.5	161.2	237.4	230.1	537.2	1066.3	1311.9	920.4	293.6
82.5°	48.9	49.8	72.5	106.0	150.4	111.4	158.6	331.6	416.8	266.4	111.4
85°	28.1	27.2	53.4	61.6	67.0	46.2	48.0	99.6	130.5	112.3	63.4
87.5°	3.6	5.4	20.8	16.3	9.0	9.9	9.9	17.2	25.3	27.2	13.6
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°	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9	1571.9
2.5°	1573.7	1572.8	1570.1	1567.3	1561.0	1557.4	1559.2	1557.4	1556.5	1557.4	1561.0
5°	1585.5	1582.8	1575.5	1566.4	1553.8	1538.3	1528.4	1513.9	1500.3	1492.2	1493.9
7.5°	1617.1	1614.5	1604.5	1579.1	1538.3	1474.1	1415.1	1363.6	1324.5	1302.0	1302.8
10°	1667.9	1663.4	1648.0	1591.8	1484.9	1344.5	1227.6	1130.7	1067.2	1037.4	1034.6
12.5°	1727.7	1722.3	1695.1	1580.0	1383.4	1164.2	1003.0	895.1	836.2	810.0	807.2
15°	1798.4	1791.2	1737.7	1523.9	1235.7	964.8	817.2	736.6	698.5	675.0	675.9
17.5°	1886.3	1873.6	1769.4	1439.6	1075.4	812.7	703.0	642.4	608.8	586.2	584.4
20°	2000.4	1979.6	1794.8	1339.1	927.7	716.7	626.1	575.3	549.9	530.0	526.3
22.5°	2159.9	2130.0	1825.5	1230.3	823.6	650.5	569.0	531.8	511.0	488.3	484.7
25°	2357.4	2322.0	1863.7	1129.8	751.9	593.4	527.3	496.5	472.0	445.8	443.0
27.5°	2633.7	2570.3	1909.0	1047.3	690.3	544.5	489.2	454.8	426.7	405.0	400.5
30°	2941.7	2837.5	1948.8	997.5	634.2	499.2	439.4	405.0	378.7	363.3	360.6
32.5°	3233.5	3092.1	1975.1	975.8	583.4	447.5	385.1	347.9	328.0	323.4	326.2
35°	3508.9	3322.2	1972.3	954.9	538.1	396.0	331.6	293.6	278.2	280.8	280.8
37.5°	3826.0	3567.8	1953.3	922.3	501.0	348.8	285.4	251.8	238.3	239.1	242.8
40°	4194.7	3851.3	1941.6	860.7	460.2	305.3	247.3	220.2	210.2	206.5	205.6
42.5°	4587.9	4125.8	1943.3	790.9	409.5	266.4	221.1	198.4	189.3	186.7	185.7
45°	4982.9	4387.7	1946.1	718.4	356.1	236.5	202.0	183.0	177.5	173.9	173.9
47.5°	5354.4	4610.6	1895.3	640.5	303.5	213.8	186.7	173.9	169.4	164.9	164.9
50°	5700.4	4759.2	1773.0	549.9	261.8	195.7	174.9	165.8	161.2	156.7	156.7
52.5°	5969.6	4782.8	1571.0	456.6	232.9	182.1	167.6	159.5	154.1	149.4	148.6
55°	6089.1	4635.0	1283.8	369.6	210.2	170.4	160.3	152.2	145.9	141.3	140.4
57.5°	6058.4	4324.3	1001.1	297.1	188.4	158.6	151.3	145.9	138.6	131.4	130.5
60°	5907.1	3908.4	754.7	247.3	168.5	145.9	141.3	136.8	126.8	115.9	114.2
62.5°	5645.2	3385.7	538.1	204.8	146.8	131.4	129.6	126.0	111.4	91.5	89.7
65°	5244.8	2750.6	362.4	170.4	126.0	115.1	115.9	109.7	90.6	68.0	66.1
67.5°	4659.5	2011.3	232.0	139.5	105.1	96.0	97.0	93.3	77.0	58.0	55.2
70°	3913.9	1331.8	151.3	106.0	84.3	74.3	79.7	80.7	65.2	47.2	45.3
72.5°	2869.3	786.4	106.0	78.8	61.6	51.7	65.2	67.0	52.6	35.4	33.5
75°	1635.3	373.3	79.7	57.1	38.0	36.3	50.7	50.7	36.3	23.6	21.7
77.5°	686.7	155.8	56.2	37.1	21.7	20.8	34.4	31.7	18.1	10.9	10.9
80°	198.4	69.8	29.9	18.1	9.0	8.2	13.6	9.9	4.5	1.8	1.8
82.5°	77.9	30.9	11.8	7.3	3.6	3.6	1.8	0.0	0.0	0.0	0.0
85°	46.2	12.7	5.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	2.8	1.8	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)