

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: P965538

Luminaire Tested: **NAV-SB4A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4A-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11526.1 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

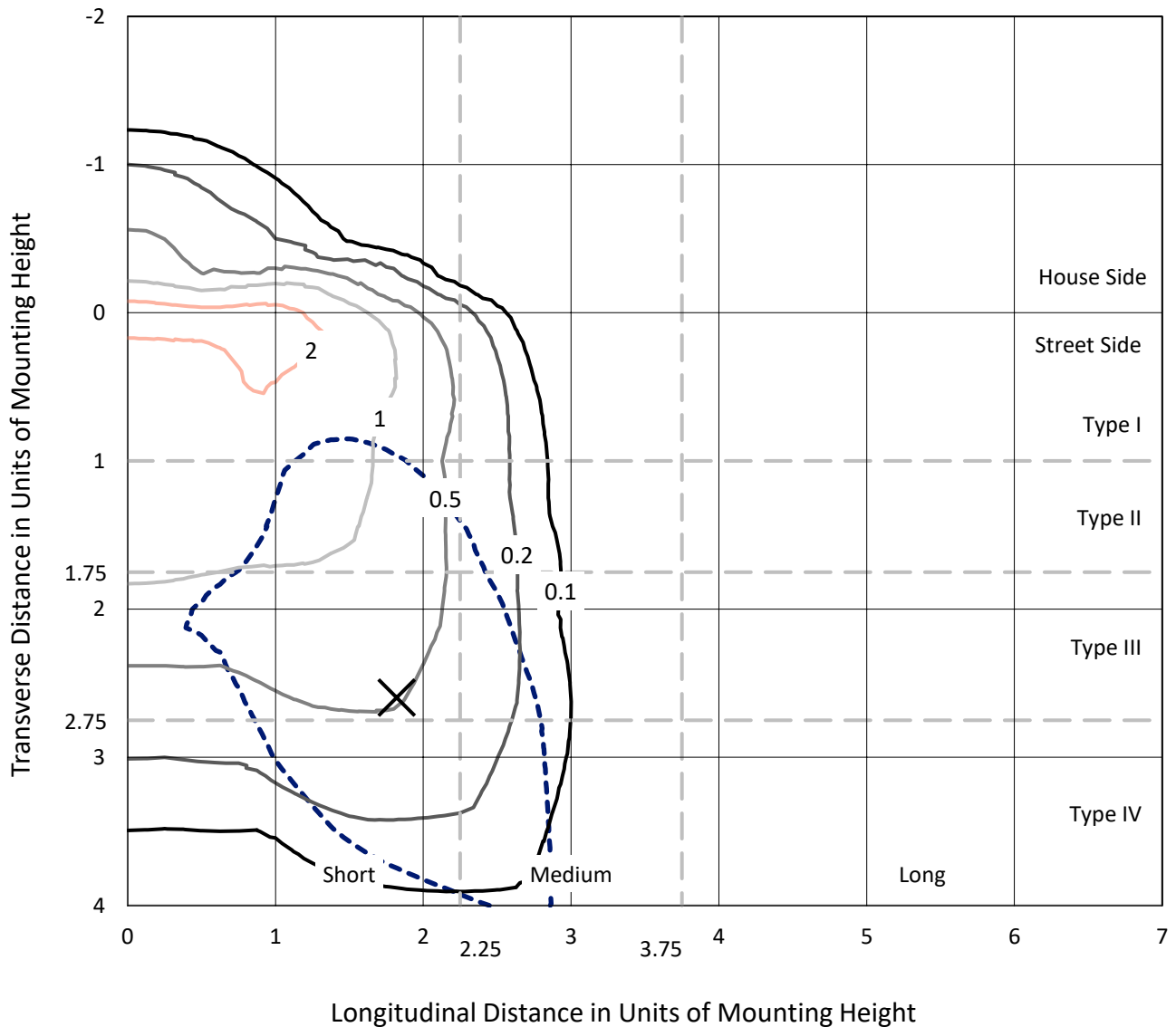
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

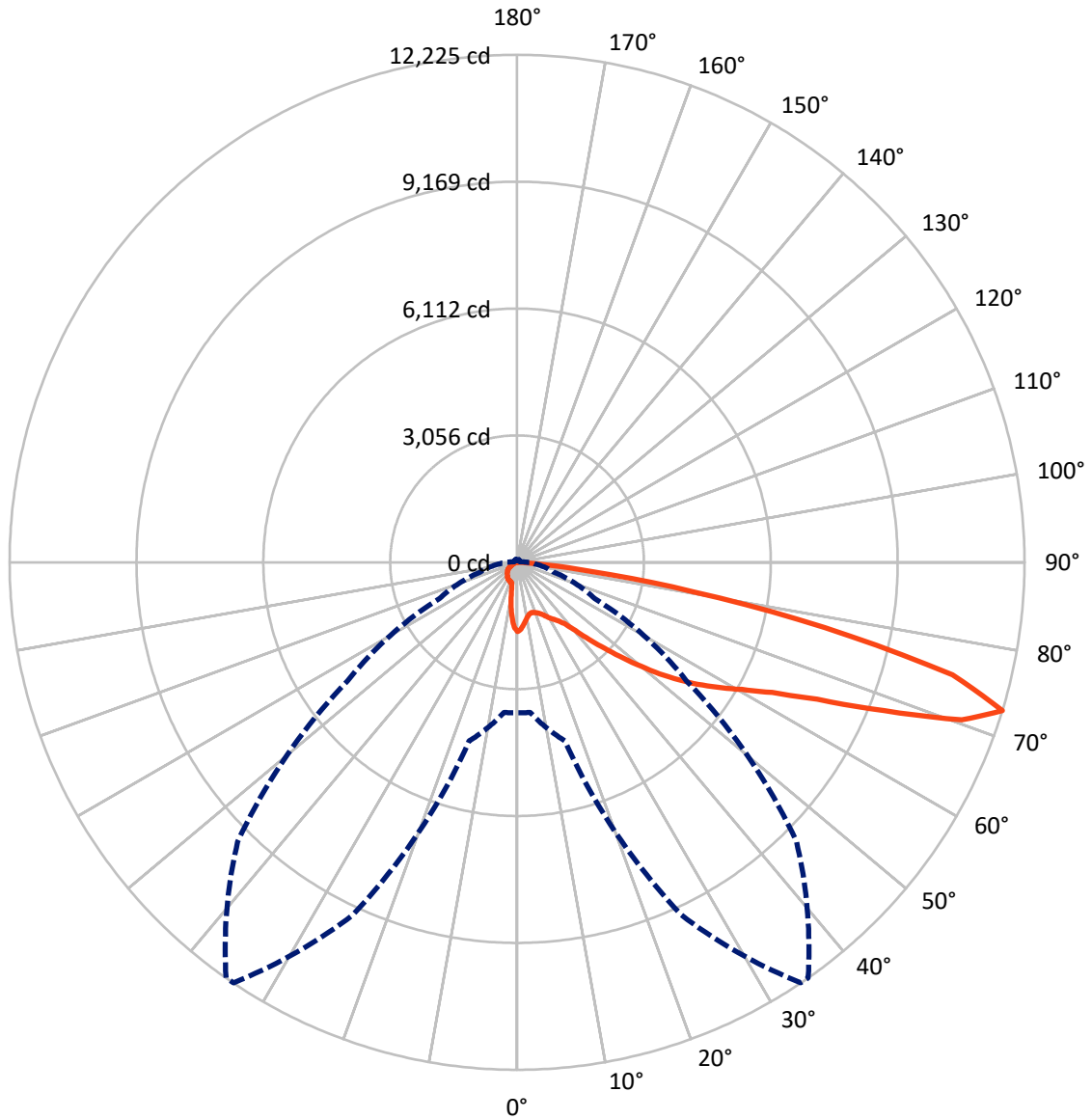
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1297.2	0.0	1297.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	10228.9	0.0	10228.9
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	11526.1	0.0	11526.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.3	1.2
10°-20°	321.1	2.8
20°-30°	521.7	4.5
30°-40°	870.4	7.6
40°-50°	1646.8	14.3
50°-60°	2616.8	22.7
60°-70°	3237.2	28.1
70°-80°	2012.2	17.5
80°-90°	162.6	1.4
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°	11526.1	100.0
0°-180°	11526.1	100.0

**Coefficient of Utilization**



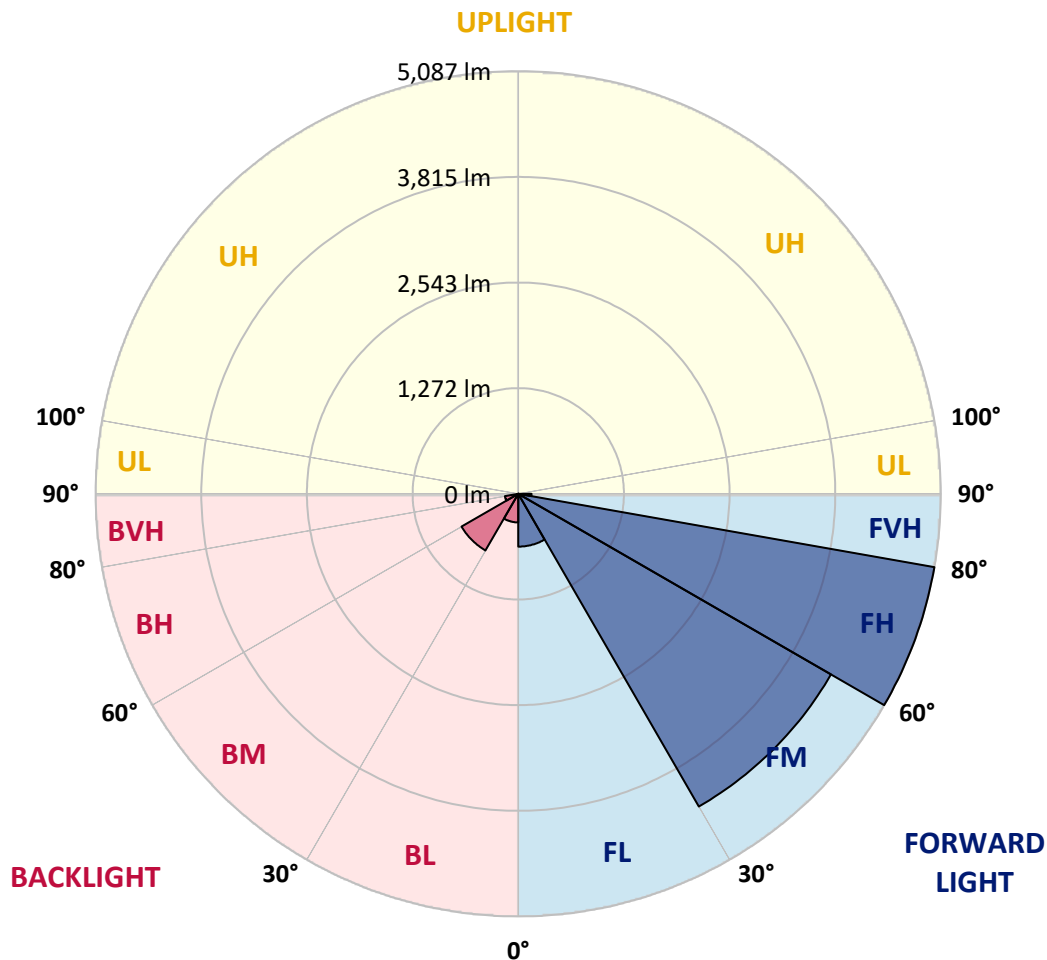
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.4	5.5			
FM (30°-60°)	4346.5	37.7			
FH (60°-80°)	5086.6	44.1			G3/7500
FVH (80°-90°)	160.4	1.4			G2/225
BL (0°-30°)	344.7	3.0	B1/500		
BM (30°-60°)	787.5	6.8	B1/1000		
BH (60°-80°)	162.8	1.4	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5
2.5°	1596.2	1609.8	1612.2	1616.4	1616.4	1621.6	1630.0	1641.8	1661.2	1671.4	1678.1
5°	1471.2	1481.3	1494.0	1504.2	1523.6	1526.1	1559.0	1591.1	1635.9	1669.7	1693.3
7.5°	1345.4	1357.2	1374.1	1398.6	1423.9	1431.5	1481.3	1535.3	1606.4	1669.7	1709.4
10°	1256.6	1257.6	1272.7	1297.2	1337.7	1347.1	1407.8	1484.7	1573.4	1659.6	1724.6
12.5°	1206.8	1212.8	1219.5	1238.1	1276.9	1282.9	1347.9	1438.3	1540.5	1653.6	1742.3
15°	1206.8	1211.0	1215.3	1224.6	1255.8	1261.0	1318.4	1408.8	1523.6	1656.2	1771.0
17.5°	1219.5	1226.3	1222.9	1233.9	1266.8	1270.2	1320.9	1400.3	1522.7	1672.2	1815.0
20°	1249.9	1255.0	1248.2	1255.0	1287.9	1294.7	1347.1	1416.3	1537.1	1700.1	1869.8
22.5°	1298.1	1300.6	1284.5	1289.7	1323.4	1331.9	1392.7	1462.0	1571.7	1744.9	1943.3
25°	1358.8	1364.0	1339.5	1345.4	1377.5	1387.6	1457.7	1530.3	1626.6	1806.5	2037.1
27.5°	1429.0	1431.5	1410.4	1409.6	1450.9	1465.3	1536.3	1614.8	1700.1	1884.2	2155.3
30°	1509.2	1516.8	1496.5	1493.1	1545.5	1557.4	1627.5	1718.6	1808.2	2000.7	2323.4
32.5°	1572.6	1578.5	1566.6	1575.1	1628.3	1637.5	1738.1	1865.6	1977.9	2166.2	2552.2
35°	1663.8	1667.2	1640.1	1655.3	1716.2	1739.7	1889.3	2071.7	2191.7	2374.0	2851.2
37.5°	1994.0	1994.0	1879.1	1804.0	1862.2	1883.3	2096.1	2331.0	2455.1	2652.7	3227.8
40°	2450.9	2443.3	2275.2	2121.5	2114.0	2155.3	2390.9	2657.8	2795.5	2987.2	3651.9
42.5°	2938.2	2926.4	2697.5	2545.5	2520.2	2534.5	2731.3	3060.6	3200.9	3395.1	4107.9
45°	3370.6	3367.2	3157.8	2953.4	2907.8	2953.4	3156.1	3531.9	3632.4	3836.8	4563.1
47.5°	3732.9	3732.9	3580.0	3446.6	3423.0	3449.9	3731.2	4054.7	4045.4	4307.3	5006.5
50°	4150.1	4146.7	4001.5	3944.1	3968.6	4006.5	4393.4	4605.3	4472.8	4769.2	5402.6
52.5°	4442.3	4462.6	4412.8	4403.5	4528.4	4594.4	5065.7	5144.2	4855.3	5207.5	5699.0
55°	4673.8	4697.4	4754.9	4819.9	5060.5	5146.7	5716.7	5655.1	5175.4	5587.6	5869.7
57.5°	5001.4	4967.7	5056.3	5184.7	5574.1	5677.9	6347.6	6137.4	5433.0	5895.8	5888.2
60°	5399.2	5404.3	5419.5	5581.6	6086.7	6220.1	6969.3	6593.4	5598.5	6085.0	5682.2
62.5°	5877.2	5884.8	5916.1	6165.3	6774.9	6900.8	7631.3	6966.7	5674.5	6031.8	5150.1
65°	5844.2	5876.4	6225.2	7077.3	7821.4	7945.5	8404.1	7228.5	5559.7	5545.4	4193.2
67.5°	5324.1	5376.4	5960.0	8166.8	9399.0	9537.5	9338.2	7280.1	5063.9	4312.3	2735.5
70°	4641.6	4660.3	5362.1	9146.5	11225.8	11365.9	10174.4	6713.3	3842.7	2405.3	1225.5
72.5°	3624.8	3629.0	4452.5	9373.6	12217.3	12224.9	9518.0	4983.7	2066.6	923.9	425.7
75°	2589.4	2564.0	2982.1	7601.8	10748.6	10834.8	7135.6	2337.7	789.7	436.6	212.0
77.5°	1388.5	1416.3	1687.5	4508.3	7425.3	7572.3	3893.4	673.9	402.0	297.2	140.2
80°	429.1	452.6	691.7	2064.0	4205.9	4294.5	1443.3	299.8	280.4	212.0	92.0
82.5°	135.1	140.2	322.6	867.4	1745.7	1786.3	418.1	169.7	191.7	140.2	54.0
85°	38.8	39.7	143.6	323.5	431.5	440.0	117.4	65.9	109.8	87.0	27.9
87.5°	4.2	13.5	54.0	54.0	38.0	37.2	12.7	14.3	31.3	11.0	5.0
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°	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5	1670.5
2.5°	1673.9	1674.7	1663.8	1645.2	1624.9	1608.0	1586.9	1570.0	1558.2	1554.8	1560.8
5°	1685.7	1679.8	1648.6	1591.9	1524.4	1466.2	1401.1	1349.6	1315.8	1301.4	1306.6
7.5°	1703.4	1686.5	1618.2	1506.6	1377.5	1262.6	1146.1	1055.6	998.2	969.5	973.7
10°	1718.6	1684.9	1567.5	1383.3	1185.7	1011.8	854.6	745.7	684.9	656.2	657.0
12.5°	1733.0	1684.1	1501.6	1237.3	969.5	756.8	610.6	556.6	539.7	533.7	532.1
15°	1760.0	1686.5	1418.8	1070.0	754.2	571.7	518.5	517.7	521.1	519.4	518.5
17.5°	1797.2	1689.1	1325.1	892.7	581.9	504.2	501.6	509.2	514.3	511.8	511.0
20°	1845.3	1699.2	1225.5	717.0	500.0	487.3	493.2	500.0	504.2	500.0	499.2
22.5°	1913.0	1717.0	1116.5	575.9	473.8	477.1	482.3	489.8	494.0	488.1	487.3
25°	1995.7	1744.9	1009.2	500.8	461.1	465.4	472.9	481.4	486.5	480.5	479.7
27.5°	2102.9	1789.6	910.4	483.9	448.4	451.0	462.0	474.7	481.4	473.8	473.8
30°	2258.3	1863.0	825.1	491.5	440.9	434.9	450.2	467.9	475.5	468.7	467.9
32.5°	2464.4	1967.0	772.7	503.4	437.5	416.4	430.7	453.6	466.2	462.0	462.0
35°	2734.7	2124.9	752.5	516.9	434.9	397.0	407.0	431.5	453.6	457.8	457.8
37.5°	3062.4	2344.5	758.4	522.8	427.3	380.9	385.9	407.0	435.8	449.3	452.6
40°	3434.8	2600.3	792.2	516.9	418.9	367.4	368.2	384.3	409.6	429.9	436.6
42.5°	3819.0	2899.3	854.6	494.9	411.3	355.6	353.0	364.0	380.9	395.2	401.2
45°	4184.8	3206.7	916.4	464.5	402.0	343.7	337.8	342.0	345.4	351.4	354.8
47.5°	4504.0	3423.0	898.6	436.6	389.3	330.3	320.1	318.4	308.2	307.4	306.6
50°	4724.4	3470.2	798.1	408.8	370.7	315.0	299.0	288.8	271.1	262.6	263.5
52.5°	4794.5	3283.6	652.0	380.9	340.4	294.8	271.9	255.9	233.9	226.3	225.5
55°	4701.6	2918.0	521.1	347.1	298.2	267.7	242.4	221.3	203.6	194.2	194.2
57.5°	4474.4	2452.6	412.2	307.4	253.4	237.3	212.0	190.9	175.7	166.4	164.7
60°	4097.7	1947.5	326.0	260.1	216.2	204.4	178.2	164.7	151.2	140.2	137.7
62.5°	3526.0	1390.1	255.9	206.0	180.7	167.2	152.0	141.9	125.9	110.6	108.1
65°	2751.5	850.4	197.6	151.2	145.2	138.5	129.3	119.9	100.6	85.3	82.7
67.5°	1735.5	402.8	141.0	114.0	114.9	111.5	107.2	99.6	85.3	71.8	70.1
70°	764.3	195.1	92.9	87.0	85.3	85.3	88.7	86.1	72.7	60.0	57.4
72.5°	260.1	104.8	69.3	65.9	61.6	60.8	74.3	71.8	58.3	46.4	43.9
75°	136.0	70.1	50.6	47.3	37.2	44.8	59.1	55.8	41.4	30.4	27.9
77.5°	88.7	49.8	34.6	30.4	21.1	29.5	43.9	38.8	24.5	15.2	13.5
80°	55.8	32.9	20.3	14.3	10.1	16.1	23.7	16.9	9.3	3.4	2.6
82.5°	29.5	16.9	7.6	5.0	4.2	5.0	5.9	4.2	1.6	0.0	0.0
85°	11.8	5.9	2.6	1.6	0.8	0.0	1.6	0.8	0.0	0.0	0.0
87.5°	4.2	0.8	0.0	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)