

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: P965534

Luminaire Tested: **NAV-SB4A-722-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965534  
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-SB4A-722-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 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: 11939.2 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

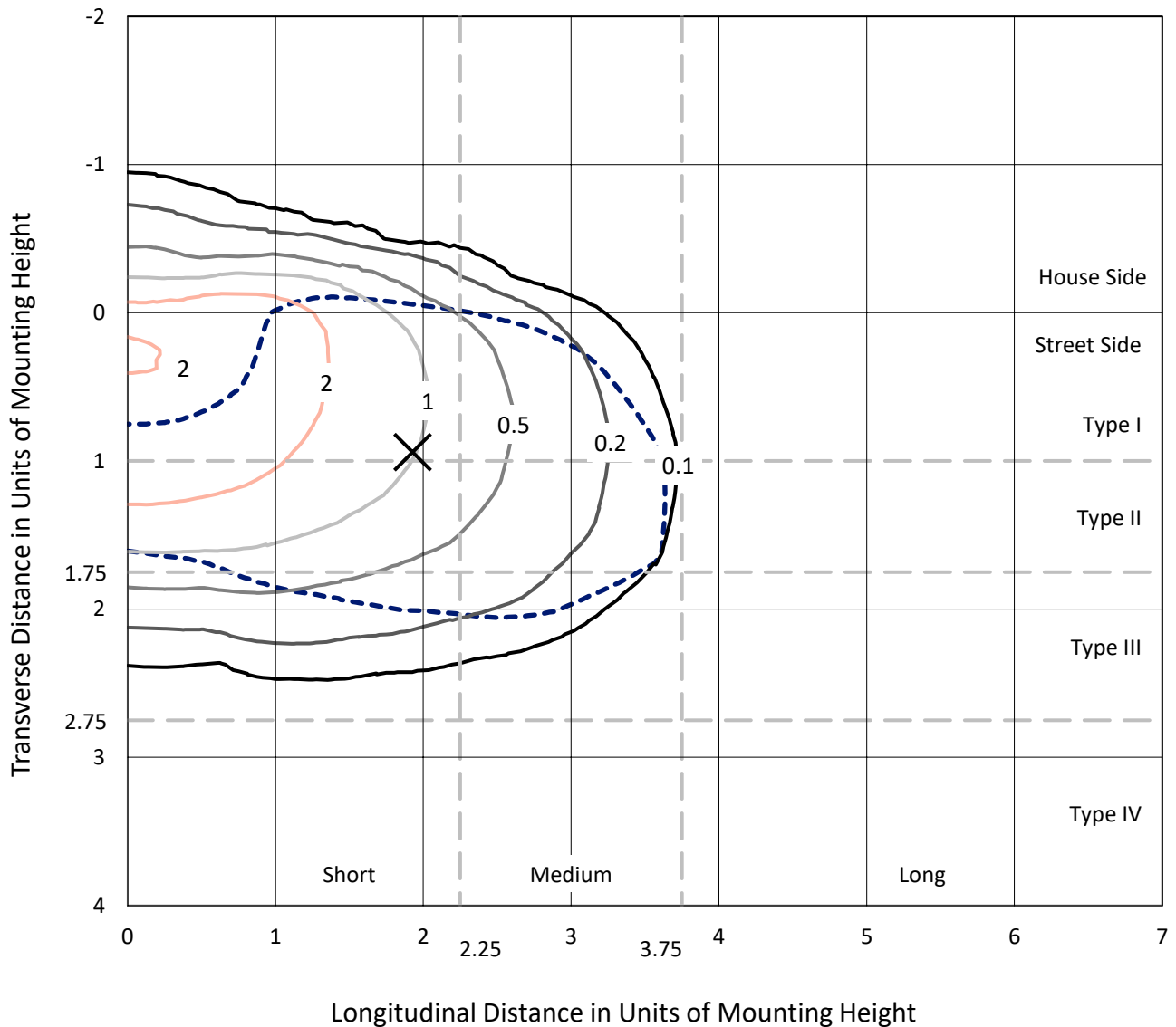
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

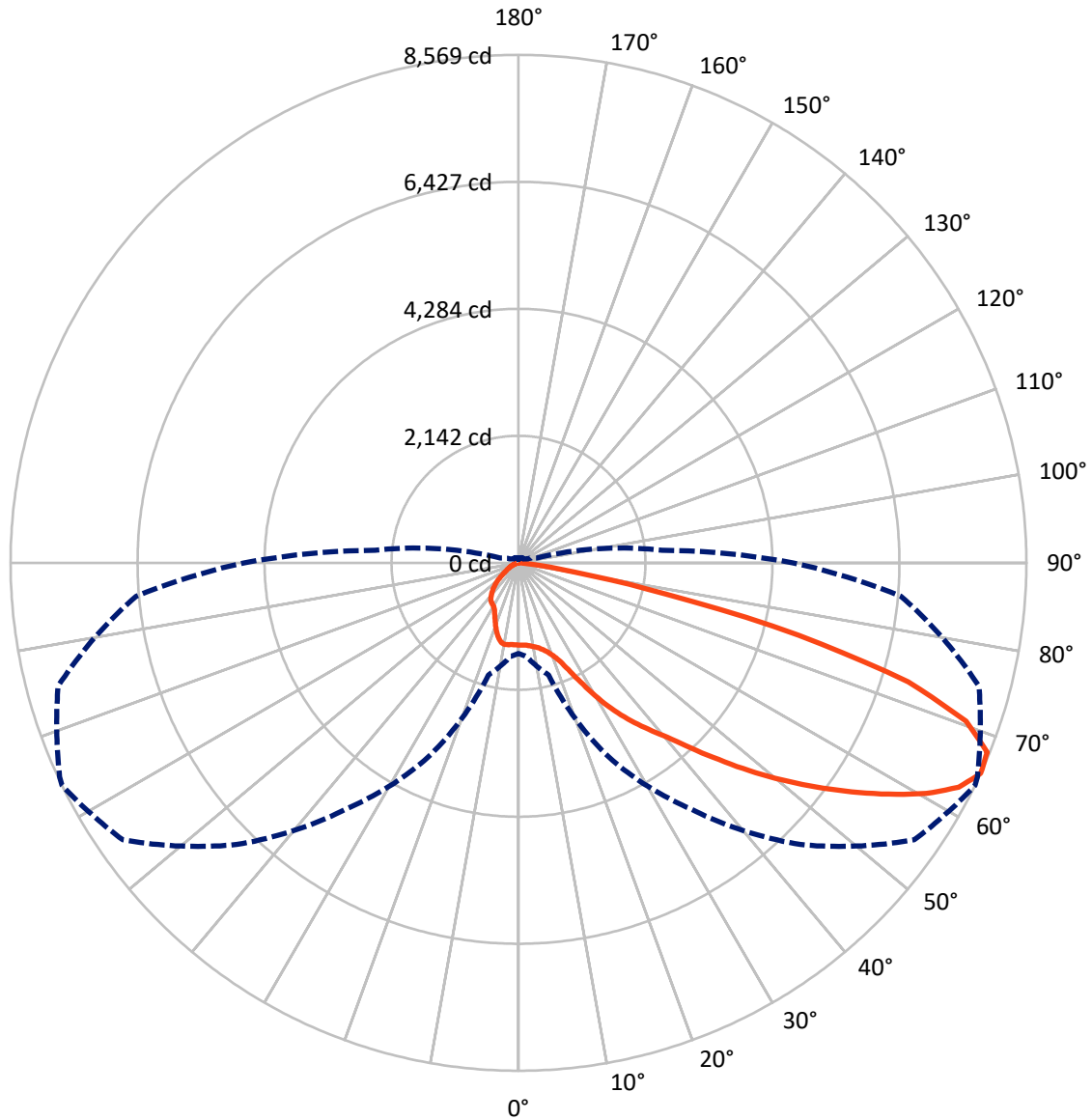
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1596.6	0.0	1596.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	10342.6	0.0	10342.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11939.2	0.0	11939.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.1	1.1
10°-20°	347.5	2.9
20°-30°	658.5	5.5
30°-40°	1332.4	11.2
40°-50°	2269.8	19.0
50°-60°	3086.7	25.9
60°-70°	2898.6	24.3
70°-80°	1161.3	9.7
80°-90°	56.3	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°	11939.2	100.0
0°-180°	11939.2	100.0

**Coefficient of Utilization**



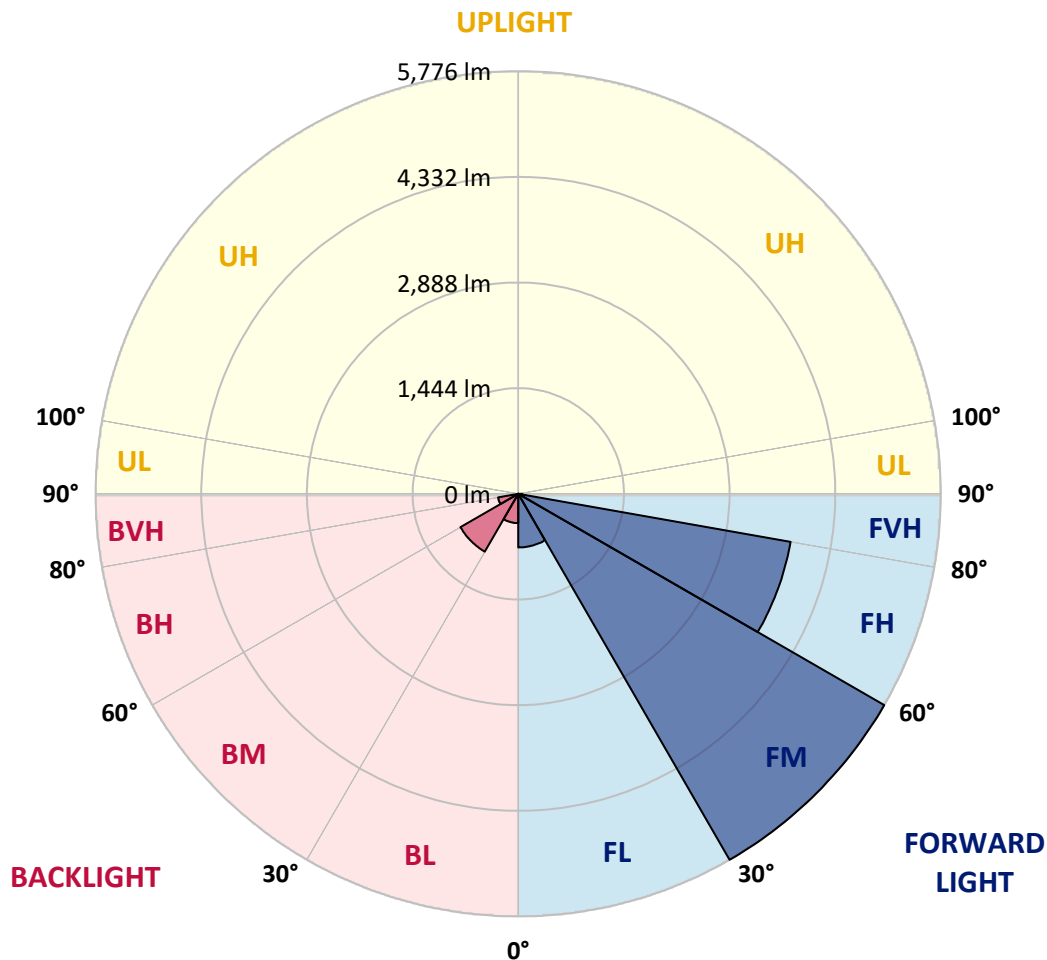
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.2	6.1			
FM	(30°-60°)	5776.2	48.4			
FH	(60°-80°)	3779.7	31.7			G2/5000
FVH	(80°-90°)	53.5	0.4			G1/100
BL	(0°-30°)	400.9	3.4	B1/500		
BM	(30°-60°)	912.8	7.6	B1/1000		
BH	(60°-80°)	280.2	2.3	B1/500		G1/500
BVH	(80°-90°)	2.7	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-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1383.9	1393.5	1391.0	1388.7	1387.8	1389.5	1390.2	1389.5	1389.5	1389.5	1390.2
5°	1357.4	1365.4	1365.4	1371.0	1379.0	1388.7	1395.8	1397.5	1399.0	1401.5	1400.7
7.5°	1307.0	1313.4	1318.3	1336.6	1356.6	1382.2	1403.8	1415.1	1416.7	1425.5	1428.6
10°	1272.6	1280.6	1288.6	1307.8	1336.6	1375.0	1411.8	1439.1	1443.1	1463.9	1473.5
12.5°	1271.0	1279.0	1289.4	1310.3	1343.9	1384.7	1429.5	1468.7	1475.9	1506.3	1526.3
15°	1287.8	1297.4	1307.0	1332.6	1368.7	1418.3	1466.3	1515.2	1522.3	1565.6	1587.1
17.5°	1322.2	1335.1	1342.2	1367.9	1406.3	1461.4	1524.7	1580.8	1587.1	1637.5	1664.8
20°	1390.2	1405.5	1407.8	1428.6	1466.3	1525.5	1600.7	1670.3	1678.4	1736.0	1766.4
22.5°	1531.1	1552.8	1533.5	1544.0	1577.6	1636.7	1718.4	1806.5	1817.6	1883.3	1910.5
25°	1779.2	1809.6	1760.0	1742.4	1756.8	1818.5	1921.0	2032.2	2045.0	2097.8	2111.4
27.5°	2266.7	2227.4	2152.2	2078.6	2035.3	2070.6	2185.8	2323.5	2339.5	2390.7	2374.7
30°	2802.1	2767.7	2666.0	2502.7	2400.3	2394.7	2501.2	2654.9	2673.3	2722.1	2673.3
32.5°	3338.3	3305.5	3195.1	2994.2	2816.5	2728.4	2802.1	2972.6	2982.2	3013.4	2941.3
35°	3865.8	3832.2	3721.8	3516.1	3297.5	3097.4	3083.1	3275.2	3278.4	3311.2	3203.9
37.5°	4396.4	4368.4	4250.8	4049.1	3833.8	3557.7	3424.0	3561.7	3565.7	3597.6	3486.4
40°	4775.1	4787.1	4706.2	4550.2	4365.3	4063.5	3806.5	3866.6	3842.6	3896.2	3829.8
42.5°	5100.0	5124.0	5053.6	4975.1	4867.9	4602.1	4280.4	4270.0	4231.6	4260.4	4191.5
45°	5380.9	5400.9	5337.7	5319.3	5316.9	5130.4	4798.2	4735.8	4682.2	4676.6	4594.2
47.5°	5484.2	5522.6	5549.8	5611.5	5731.5	5653.1	5333.7	5236.8	5176.9	5132.8	5002.3
50°	5523.4	5564.2	5657.1	5836.3	6120.5	6154.1	5866.8	5757.9	5684.2	5604.2	5412.1
52.5°	5470.5	5543.4	5668.2	5970.0	6382.2	6555.9	6378.2	6282.9	6198.9	6068.4	5783.6
55°	5159.2	5232.0	5487.3	5968.4	6512.6	6837.6	6861.7	6819.2	6724.7	6519.1	6083.7
57.5°	4502.9	4611.0	5015.1	5765.1	6510.3	7080.1	7335.4	7365.9	7260.2	6965.7	6319.7
60°	3593.6	3740.1	4233.1	5314.5	6309.4	7211.4	7750.8	7903.0	7790.8	7405.9	6511.1
62.5°	2507.6	2677.3	3143.9	4608.6	5850.0	7117.0	8054.1	8335.1	8250.3	7799.6	6584.7
65°	1529.5	1583.9	1960.1	3626.6	5068.8	6721.5	8147.8	8568.8	8540.8	8040.6	6475.8
67.5°	1018.8	1064.5	1172.6	2486.8	3934.7	5931.6	7923.8	8528.0	8536.0	8001.4	6077.2
70°	613.9	653.1	723.5	1446.3	2550.0	4695.0	7229.8	8007.8	8054.1	7477.1	5321.7
72.5°	253.0	279.3	343.4	655.5	1320.6	2979.8	5757.1	6875.2	6983.3	6286.9	4084.3
75°	143.3	156.8	201.7	328.9	573.1	1388.7	3487.3	4880.7	5039.9	4333.2	2457.1
77.5°	95.2	101.7	130.5	212.9	322.6	473.9	1490.4	2542.8	2846.9	2366.7	1063.7
80°	64.1	69.6	89.7	142.5	209.7	203.3	474.6	942.1	1159.0	813.1	259.3
82.5°	43.3	44.0	64.1	93.7	132.8	98.4	140.0	292.9	368.2	235.3	98.4
85°	24.8	24.0	47.3	54.4	59.2	40.8	42.4	88.0	115.2	99.2	56.1
87.5°	3.2	4.8	18.4	14.5	8.0	8.8	8.8	15.2	22.4	24.0	12.0
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°	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7	1388.7
2.5°	1390.2	1389.5	1387.0	1384.7	1379.0	1375.9	1377.5	1375.9	1375.0	1375.9	1379.0
5°	1400.7	1398.3	1391.8	1383.9	1372.7	1359.0	1350.2	1337.4	1325.4	1318.3	1319.8
7.5°	1428.6	1426.3	1417.5	1395.0	1359.0	1302.3	1250.2	1204.6	1170.1	1150.2	1151.0
10°	1473.5	1469.4	1455.9	1406.3	1311.8	1187.8	1084.6	998.9	942.8	916.5	914.0
12.5°	1526.3	1521.5	1497.5	1395.8	1222.2	1028.5	886.0	790.8	738.7	715.6	713.1
15°	1588.7	1582.4	1535.1	1346.2	1091.7	852.4	721.9	650.7	617.0	596.2	597.1
17.5°	1666.3	1655.2	1563.1	1271.8	950.1	717.9	621.0	567.4	537.8	517.8	516.3
20°	1767.2	1748.9	1585.6	1183.0	819.6	633.1	553.1	508.2	485.8	468.2	465.0
22.5°	1908.1	1881.7	1612.7	1086.9	727.5	574.7	502.7	469.9	451.4	431.4	428.2
25°	2082.6	2051.3	1646.4	998.0	664.3	524.3	465.9	438.6	417.0	393.8	391.3
27.5°	2326.6	2270.7	1686.4	925.3	609.9	481.0	432.2	401.8	377.0	357.7	353.7
30°	2598.8	2506.7	1721.6	881.2	560.3	441.1	388.2	357.7	334.6	320.9	318.6
32.5°	2856.6	2731.7	1744.9	862.0	515.5	395.3	340.2	307.3	289.8	285.8	288.1
35°	3099.9	2935.0	1742.4	843.6	475.4	349.7	292.9	259.3	245.7	248.2	248.2
37.5°	3380.0	3151.9	1725.6	814.8	442.6	308.1	252.2	222.5	210.5	211.3	214.5
40°	3705.8	3402.4	1715.2	760.3	406.6	269.7	218.5	194.4	185.7	182.4	181.7
42.5°	4053.1	3644.9	1716.8	698.7	361.7	235.3	195.3	175.3	167.3	164.9	164.1
45°	4402.1	3876.2	1719.2	634.7	314.6	208.9	178.5	161.6	156.8	153.6	153.6
47.5°	4730.3	4073.1	1674.3	565.9	268.1	188.9	164.9	153.6	149.6	145.7	145.7
50°	5035.9	4204.3	1566.3	485.8	231.3	172.9	154.5	146.5	142.5	138.5	138.5
52.5°	5273.7	4225.2	1387.8	403.4	205.7	160.9	148.1	140.8	136.0	132.0	131.3
55°	5379.3	4094.8	1134.2	326.6	185.7	150.5	141.7	134.5	128.8	124.8	124.0
57.5°	5352.1	3820.2	884.4	262.5	166.5	140.0	133.7	128.8	122.5	116.0	115.2
60°	5218.5	3452.8	666.8	218.5	148.8	128.8	124.8	120.8	112.0	102.4	100.9
62.5°	4987.1	2991.1	475.4	180.9	129.7	116.0	114.5	111.2	98.4	80.9	79.2
65°	4633.4	2430.0	320.1	150.5	111.2	101.7	102.4	96.9	80.1	60.1	58.4
67.5°	4116.3	1776.8	204.9	123.3	92.9	84.9	85.7	82.4	68.1	51.2	48.8
70°	3457.6	1176.6	133.7	93.7	74.4	65.6	70.4	71.2	57.6	41.6	40.0
72.5°	2534.8	694.7	93.7	69.6	54.4	45.6	57.6	59.2	46.4	31.3	29.6
75°	1444.6	329.7	70.4	50.4	33.6	32.0	44.8	44.8	32.0	20.8	19.2
77.5°	606.7	137.7	49.6	32.8	19.2	18.4	30.4	28.0	16.0	9.6	9.6
80°	175.3	61.6	26.4	16.0	8.0	7.2	12.0	8.8	4.0	1.6	1.6
82.5°	68.9	27.2	10.5	6.4	3.2	3.2	1.6	0.0	0.0	0.0	0.0
85°	40.8	11.2	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	2.4	1.6	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)