

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: P882550

Luminaire Tested: **NAV-SB2C-722-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

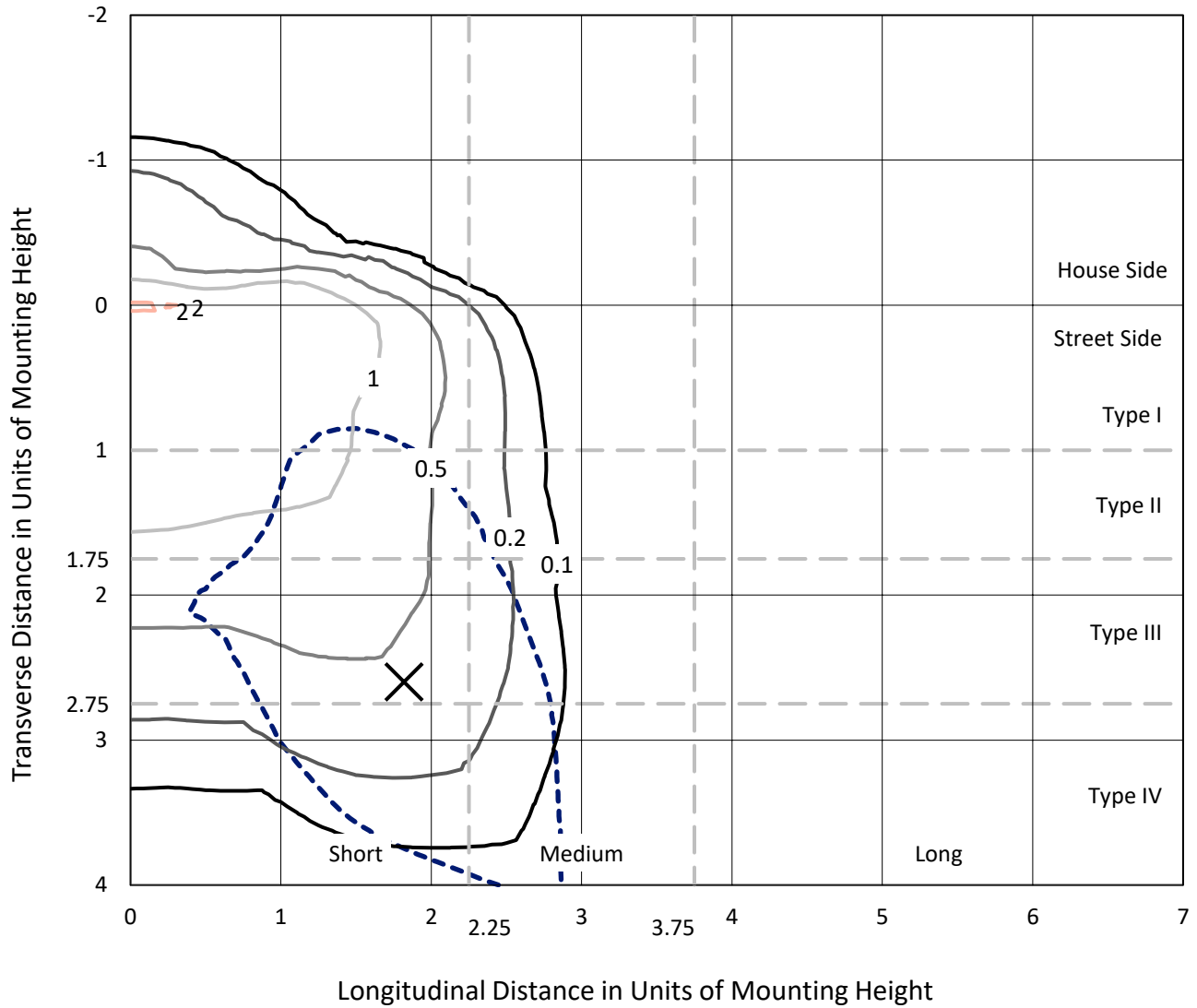
Lumens per Lamp: N/A  
Luminaire Lumens: 9209 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.857  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

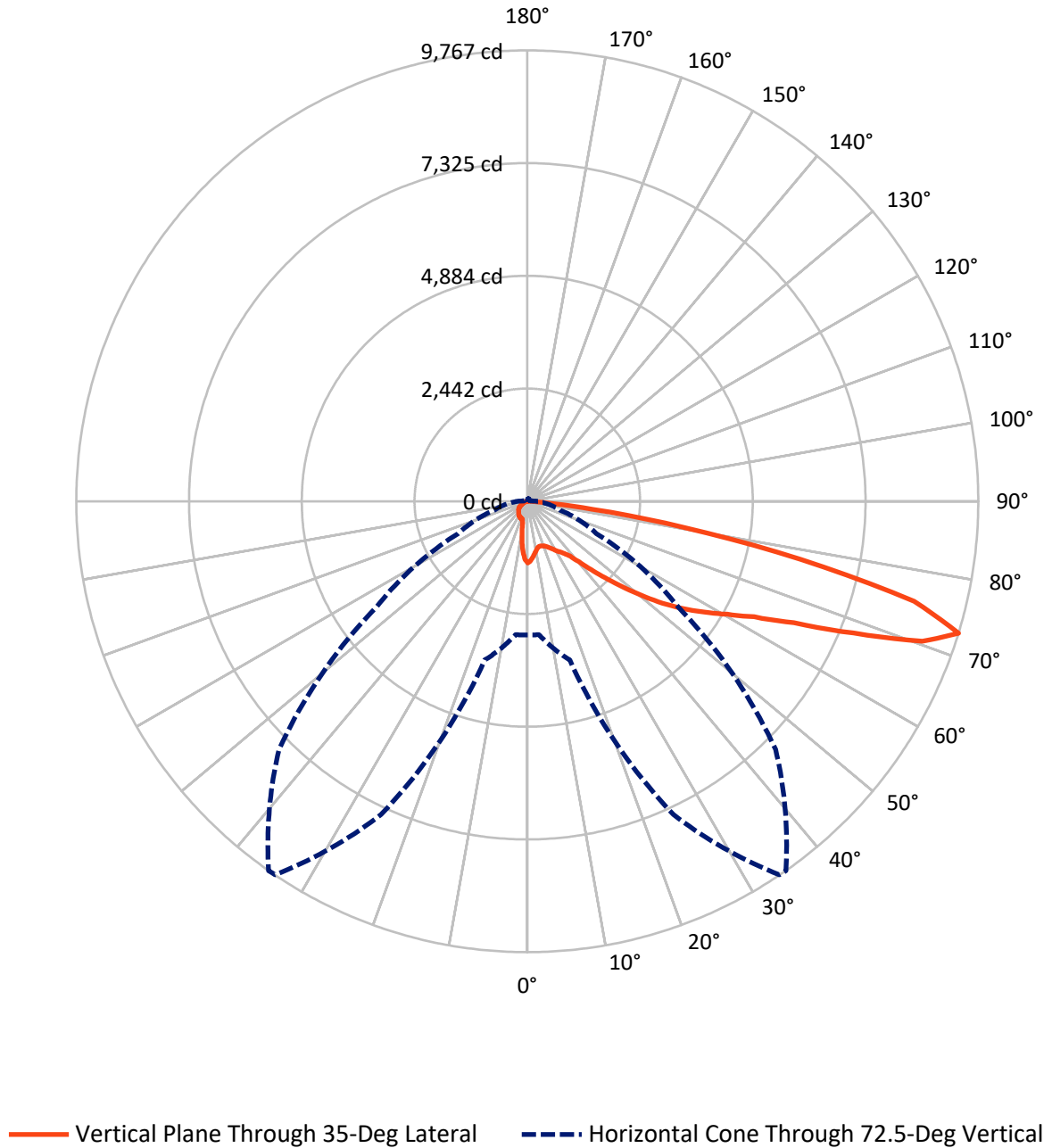
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1036.4	0.0	1036.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	8172.6	0.0	8172.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	9209.0	0.0	9209.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	1.2
10°-20°	256.6	2.8
20°-30°	416.8	4.5
30°-40°	695.4	7.6
40°-50°	1315.8	14.3
50°-60°	2090.7	22.7
60°-70°	2586.4	28.1
70°-80°	1607.7	17.5
80°-90°	129.9	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°	9209.0	100.0
0°-180°	9209.0	100.0

**Coefficient of Utilization**



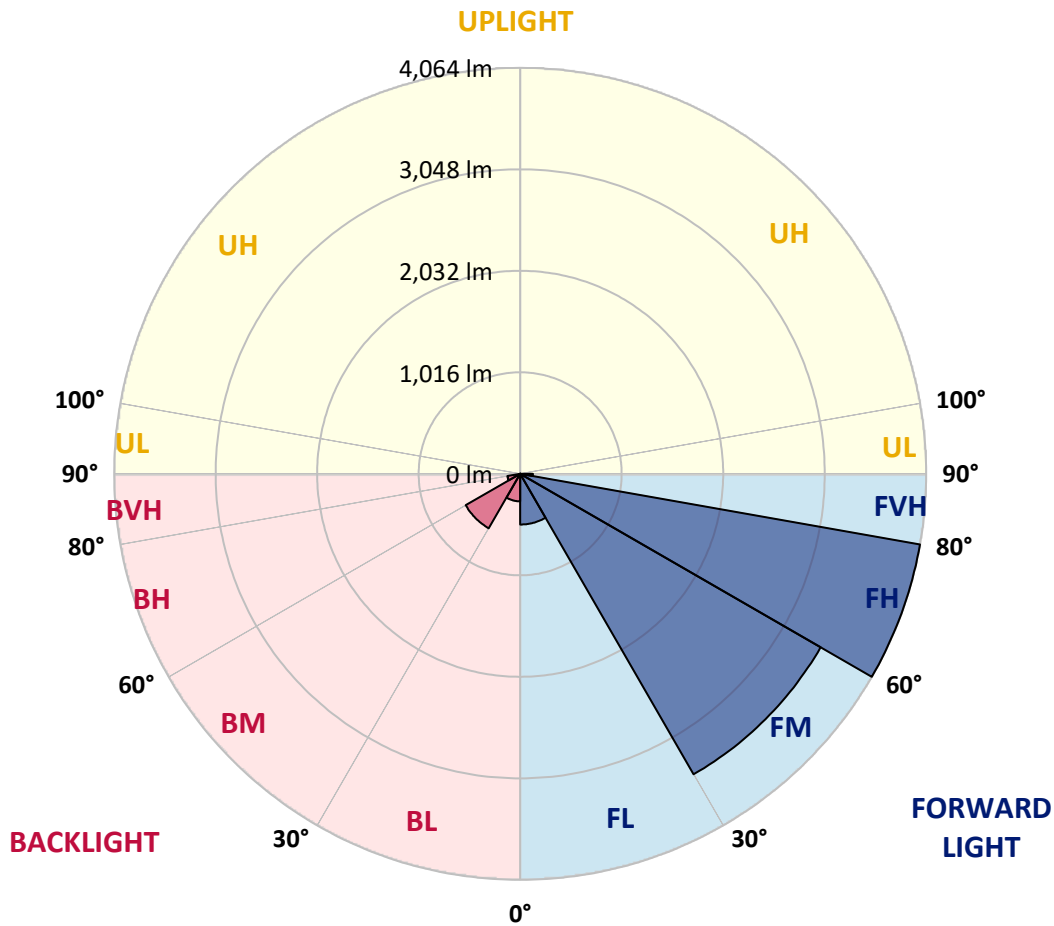
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.6	5.5			
FM (30°-60°)	3472.7	37.7			
FH (60°-80°)	4064.0	44.1			G2/5000
FVH (80°-90°)	128.2	1.4			G2/225
BL (0°-30°)	275.4	3.0	B1/500		
BM (30°-60°)	629.2	6.8	B1/1000		
BH (60°-80°)	130.1	1.4	B1/500		G1/500
BVH (80°-90°)	1.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1275.3	1286.1	1288.1	1291.5	1291.5	1295.6	1302.3	1311.8	1327.3	1335.4	1340.8
5°	1175.4	1183.5	1193.7	1201.8	1217.3	1219.3	1245.6	1271.3	1307.0	1334.0	1352.9
7.5°	1074.9	1084.4	1097.8	1117.4	1137.7	1143.7	1183.5	1226.7	1283.4	1334.0	1365.7
10°	1004.1	1004.7	1016.9	1036.4	1068.8	1076.3	1124.8	1186.2	1257.1	1325.9	1377.9
12.5°	964.2	969.0	974.4	989.2	1020.3	1025.0	1076.9	1149.1	1230.8	1321.2	1392.0
15°	964.2	967.6	971.0	978.4	1003.4	1007.4	1053.3	1125.5	1217.3	1323.2	1415.0
17.5°	974.4	979.8	977.1	985.8	1012.2	1014.9	1055.3	1118.8	1216.6	1336.0	1450.1
20°	998.7	1002.7	997.3	1002.7	1029.0	1034.4	1076.3	1131.6	1228.1	1358.3	1493.9
22.5°	1037.1	1039.1	1026.3	1030.4	1057.4	1064.1	1112.7	1168.0	1255.7	1394.1	1552.6
25°	1085.7	1089.8	1070.2	1074.9	1100.5	1108.6	1164.7	1222.7	1299.6	1443.3	1627.5
27.5°	1141.7	1143.7	1126.9	1126.2	1159.3	1170.7	1227.4	1290.2	1358.3	1505.4	1722.0
30°	1205.8	1211.9	1195.7	1193.0	1234.8	1244.3	1300.3	1373.2	1444.7	1598.5	1856.3
32.5°	1256.4	1261.1	1251.7	1258.4	1301.0	1308.4	1388.7	1490.6	1580.3	1730.8	2039.2
35°	1329.3	1332.0	1310.4	1322.5	1371.1	1390.0	1509.5	1655.2	1751.0	1896.8	2278.0
37.5°	1593.1	1593.1	1501.4	1441.3	1487.9	1504.7	1674.8	1862.4	1961.6	2119.4	2579.0
40°	1958.2	1952.1	1817.8	1695.0	1688.9	1722.0	1910.3	2123.5	2233.5	2386.7	2917.7
42.5°	2347.5	2338.1	2155.2	2033.8	2013.5	2025.0	2182.2	2445.4	2557.4	2712.6	3282.1
45°	2693.0	2690.3	2523.0	2359.7	2323.2	2359.7	2521.6	2821.9	2902.2	3065.5	3645.8
47.5°	2982.5	2982.5	2860.3	2753.7	2734.8	2756.4	2981.1	3239.6	3232.1	3441.3	4000.0
50°	3315.8	3313.1	3197.1	3151.2	3170.7	3201.1	3510.1	3679.5	3573.6	3810.4	4316.5
52.5°	3549.3	3565.5	3525.7	3518.2	3618.1	3670.7	4047.3	4110.0	3879.2	4160.6	4553.3
55°	3734.2	3753.1	3798.9	3850.9	4043.2	4112.0	4567.5	4518.3	4135.0	4464.3	4689.6
57.5°	3996.0	3969.0	4039.8	4142.4	4453.5	4536.5	5071.6	4903.5	4340.8	4710.6	4704.5
60°	4313.8	4317.8	4330.0	4459.5	4863.1	4969.7	5568.2	5267.9	4473.0	4861.7	4539.8
62.5°	4695.7	4701.8	4726.8	4925.8	5413.0	5513.5	6097.2	5566.2	4533.8	4819.2	4114.7
65°	4669.4	4695.0	4973.7	5654.6	6249.0	6348.2	6714.6	5775.3	4442.0	4430.5	3350.2
67.5°	4253.7	4295.6	4761.8	6525.0	7509.5	7620.2	7460.9	5816.5	4045.9	3445.4	2185.6
70°	3708.5	3723.4	4284.1	7307.7	8969.0	9081.0	8128.9	5363.7	3070.2	1921.7	979.1
72.5°	2896.1	2899.5	3557.4	7489.3	9761.2	9767.3	7604.6	3981.8	1651.2	738.2	340.1
75°	2068.8	2048.6	2382.6	6073.6	8587.8	8656.6	5701.1	1867.8	630.9	348.9	169.4
77.5°	1109.3	1131.6	1348.2	3601.9	5932.6	6050.0	3110.7	538.5	321.2	237.5	112.0
80°	342.8	361.7	552.6	1649.1	3360.3	3431.2	1153.2	239.5	224.0	169.4	73.5
82.5°	108.0	112.0	257.8	693.0	1394.7	1427.1	334.0	135.6	153.2	112.0	43.2
85°	31.0	31.7	114.7	258.4	344.8	351.6	93.8	52.6	87.7	69.5	22.3
87.5°	3.4	10.8	43.2	43.2	30.4	29.7	10.1	11.5	25.0	8.8	4.0
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°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1337.4	1338.1	1329.3	1314.4	1298.3	1284.8	1267.9	1254.4	1244.9	1242.2	1247.0
5°	1346.8	1342.1	1317.1	1271.9	1218.0	1171.4	1119.4	1078.3	1051.3	1039.8	1043.9
7.5°	1361.0	1347.5	1292.9	1203.8	1100.5	1008.8	915.7	843.5	797.6	774.6	778.0
10°	1373.2	1346.2	1252.4	1105.3	947.4	808.4	682.9	595.8	547.2	524.3	525.0
12.5°	1384.6	1345.5	1199.7	988.5	774.6	604.6	487.9	444.7	431.2	426.5	425.1
15°	1406.2	1347.5	1133.6	854.9	602.6	456.8	414.3	413.6	416.3	415.0	414.3
17.5°	1435.9	1349.5	1058.7	713.2	464.9	402.8	400.8	406.9	410.9	408.9	408.2
20°	1474.4	1357.6	979.1	572.9	399.5	389.3	394.1	399.5	402.8	399.5	398.8
22.5°	1528.4	1371.8	892.0	460.2	378.5	381.2	385.3	391.4	394.7	390.0	389.3
25°	1594.5	1394.1	806.3	400.1	368.4	371.8	377.9	384.6	388.7	383.9	383.3
27.5°	1680.2	1429.8	727.4	386.6	358.3	360.3	369.1	379.2	384.6	378.5	378.5
30°	1804.3	1488.5	659.2	392.7	352.2	347.5	359.7	373.8	379.9	374.5	373.8
32.5°	1969.0	1571.5	617.4	402.2	349.5	332.7	344.1	362.4	372.5	369.1	369.1
35°	2184.9	1697.7	601.2	413.0	347.5	317.1	325.2	344.8	362.4	365.7	365.7
37.5°	2446.7	1873.2	605.9	417.7	341.4	304.3	308.4	325.2	348.2	359.0	361.7
40°	2744.3	2077.6	632.9	413.0	334.7	293.5	294.2	307.0	327.3	343.5	348.9
42.5°	3051.3	2316.5	682.9	395.4	328.6	284.1	282.1	290.8	304.3	315.8	320.5
45°	3343.5	2562.1	732.1	371.1	321.2	274.6	269.9	273.3	276.0	280.7	283.4
47.5°	3598.5	2734.8	718.0	348.9	311.1	263.8	255.7	254.4	246.3	245.6	244.9
50°	3774.7	2772.6	637.7	326.6	296.2	251.7	238.9	230.8	216.6	209.9	210.5
52.5°	3830.7	2623.5	520.9	304.3	271.9	235.5	217.3	204.5	186.9	180.8	180.2
55°	3756.4	2331.3	416.3	277.3	238.2	213.9	193.7	176.8	162.6	155.2	155.2
57.5°	3574.9	1959.5	329.3	245.6	202.4	189.6	169.4	152.5	140.4	132.9	131.6
60°	3274.0	1556.0	260.5	207.8	172.7	163.3	142.4	131.6	120.8	112.0	110.0
62.5°	2817.2	1110.7	204.5	164.6	144.4	133.6	121.5	113.4	100.5	88.4	86.4
65°	2198.4	679.5	157.9	120.8	116.1	110.7	103.2	95.8	80.3	68.2	66.1
67.5°	1386.7	321.9	112.7	91.1	91.8	89.1	85.7	79.6	68.2	57.4	56.0
70°	610.7	155.9	74.2	69.5	68.2	68.2	70.9	68.8	58.0	47.9	45.9
72.5°	207.8	83.7	55.3	52.6	49.3	48.6	59.4	57.4	46.6	37.1	35.1
75°	108.6	56.0	40.5	37.8	29.7	35.8	47.2	44.5	33.1	24.3	22.3
77.5°	70.9	39.8	27.7	24.3	16.9	23.6	35.1	31.0	19.6	12.1	10.8
80°	44.5	26.3	16.2	11.5	8.1	12.8	18.9	13.5	7.4	2.7	2.0
82.5°	23.6	13.5	6.1	4.0	3.4	4.0	4.7	3.4	1.3	0.0	0.0
85°	9.4	4.7	2.0	1.3	0.7	0.0	1.3	0.7	0.0	0.0	0.0
87.5°	3.4	0.7	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)