

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: P882910

Luminaire Tested: **NAV-SB3A-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882910
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-SB3A-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA 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: 10028 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

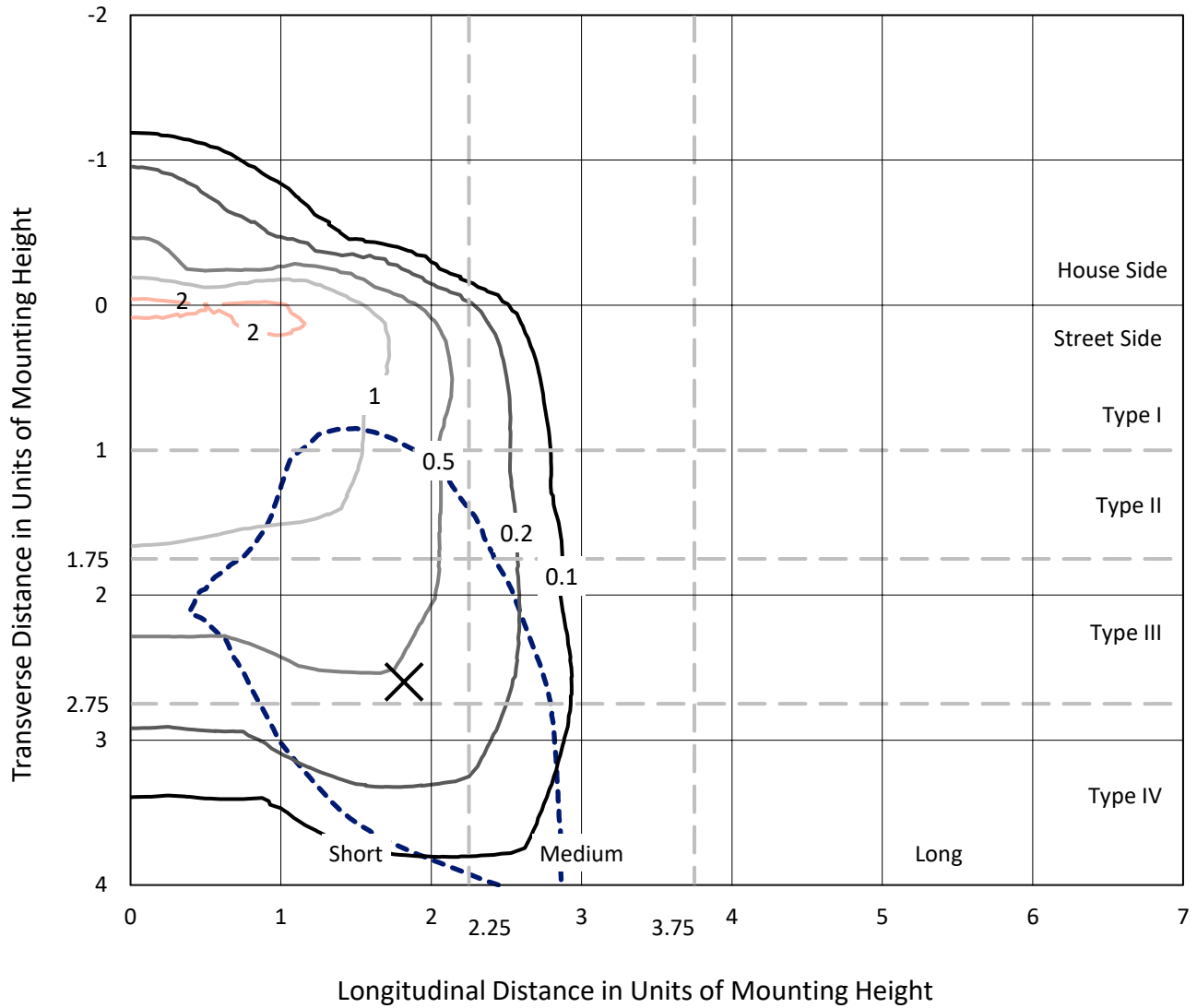
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

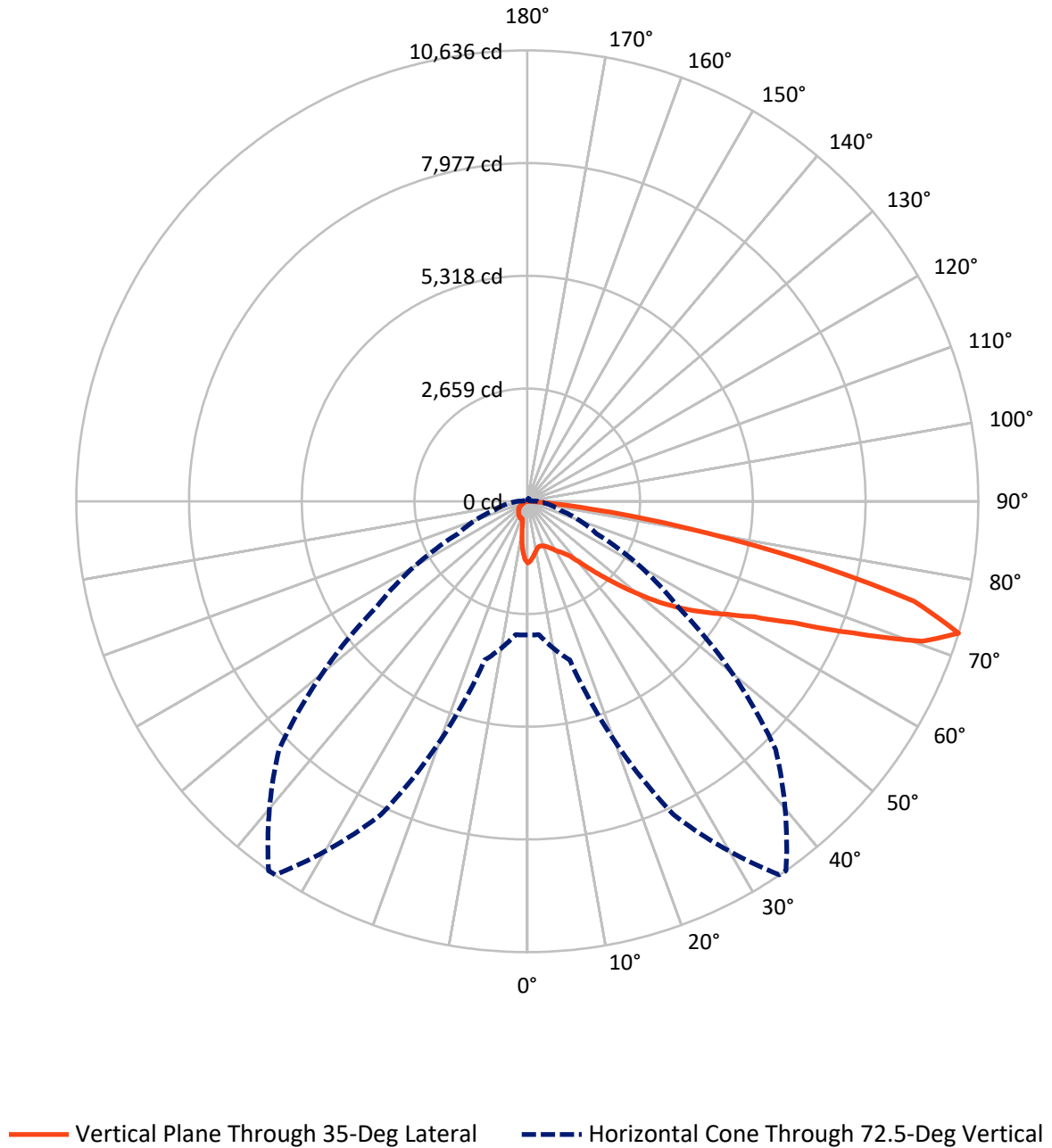
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.6	0.0	1128.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8899.4	0.0	8899.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	10028.0	0.0	10028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.2
10°-20°	279.4	2.8
20°-30°	453.9	4.5
30°-40°	757.3	7.6
40°-50°	1432.8	14.3
50°-60°	2276.7	22.7
60°-70°	2816.4	28.1
70°-80°	1750.7	17.5
80°-90°	141.5	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°	10028.0	100.0
0°-180°	10028.0	100.0

Coefficient of Utilization



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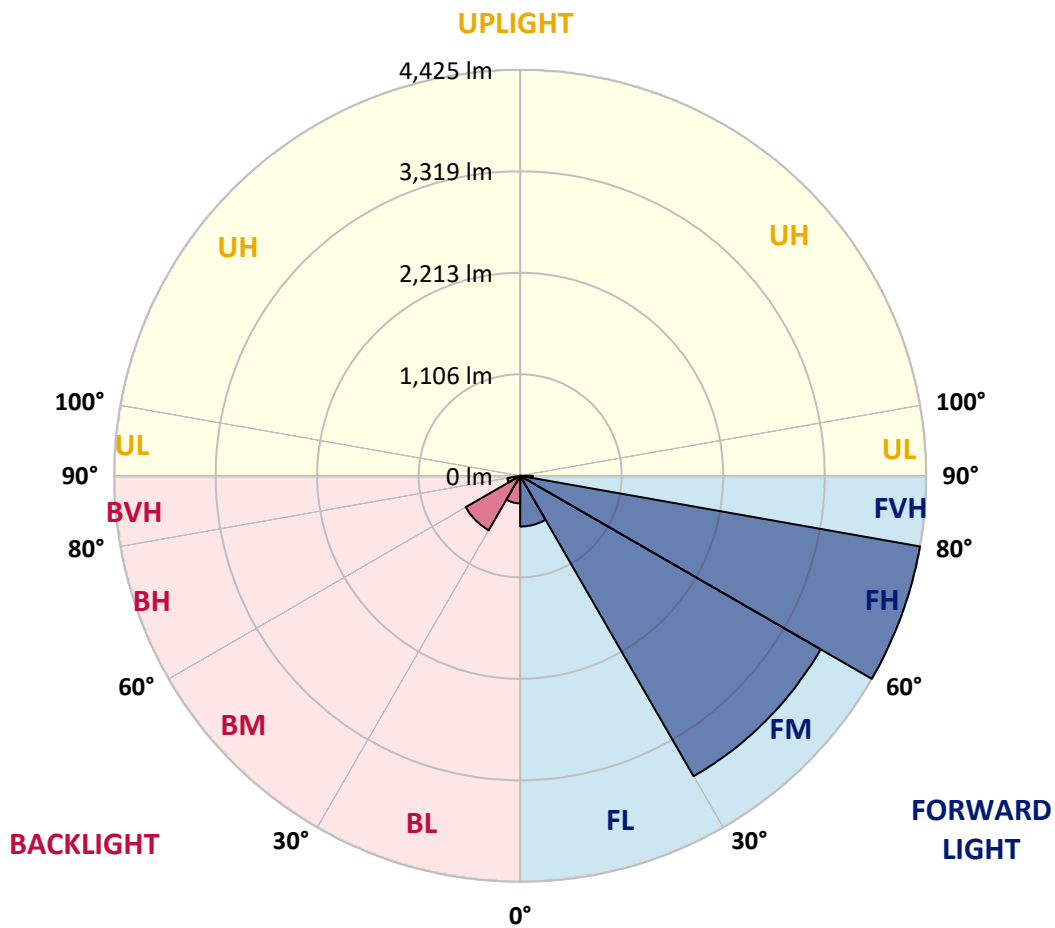
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	552.8	5.5			
FM (30°-60°)	3781.6	37.7			
FH (60°-80°)	4425.5	44.1			G2/5000
FVH (80°-90°)	139.6	1.4			G2/225
BL (0°-30°)	299.9	3.0	B1/500		
BM (30°-60°)	685.2	6.8	B1/1000		
BH (60°-80°)	141.6	1.4	B1/500		G1/500
BVH (80°-90°)	1.9	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°	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1388.7	1400.5	1402.7	1406.4	1406.4	1410.8	1418.1	1428.4	1445.3	1454.1	1460.0
5°	1280.0	1288.8	1299.8	1308.6	1325.5	1327.7	1356.4	1384.3	1423.3	1452.7	1473.2
7.5°	1170.5	1180.8	1195.5	1216.8	1238.8	1245.5	1288.8	1335.8	1397.6	1452.7	1487.2
10°	1093.4	1094.1	1107.3	1128.6	1163.9	1172.0	1224.9	1291.7	1368.9	1443.8	1500.4
12.5°	1050.0	1055.1	1061.0	1077.2	1111.0	1116.1	1172.7	1251.3	1340.2	1438.7	1515.8
15°	1050.0	1053.7	1057.3	1065.4	1092.6	1097.0	1147.0	1225.6	1325.5	1440.9	1540.8
17.5°	1061.0	1066.9	1064.0	1073.5	1102.2	1105.1	1149.2	1218.3	1324.8	1454.9	1579.0
20°	1087.5	1091.9	1086.0	1091.9	1120.5	1126.4	1172.0	1232.2	1337.3	1479.1	1626.8
22.5°	1129.4	1131.6	1117.6	1122.0	1151.4	1158.7	1211.7	1271.9	1367.4	1518.1	1690.7
25°	1182.3	1186.7	1165.4	1170.5	1198.4	1207.2	1268.2	1331.4	1415.2	1571.7	1772.3
27.5°	1243.2	1245.5	1227.1	1226.3	1262.4	1274.8	1336.6	1404.9	1479.1	1639.3	1875.2
30°	1313.1	1319.7	1302.0	1299.1	1344.6	1354.9	1415.9	1495.3	1573.2	1740.7	2021.4
32.5°	1368.2	1373.3	1363.0	1370.4	1416.7	1424.7	1512.2	1623.1	1720.9	1884.7	2220.5
35°	1447.5	1450.5	1426.9	1440.2	1493.1	1513.6	1643.7	1802.4	1906.8	2065.5	2480.6
37.5°	1734.8	1734.8	1634.9	1569.5	1620.2	1638.6	1823.7	2028.0	2136.0	2307.9	2808.3
40°	2132.3	2125.7	1979.5	1845.8	1839.2	1875.2	2080.2	2312.4	2432.1	2598.9	3177.2
42.5°	2556.3	2546.0	2346.9	2214.6	2192.6	2205.1	2376.3	2662.8	2784.8	2953.8	3574.0
45°	2932.5	2929.6	2747.3	2569.5	2529.8	2569.5	2745.9	3072.8	3160.3	3338.1	3970.0
47.5°	3247.7	3247.7	3114.7	2998.6	2978.1	3001.6	3246.3	3527.7	3519.6	3747.4	4355.8
50°	3610.7	3607.8	3481.4	3431.4	3452.7	3485.8	3822.3	4006.8	3891.4	4149.3	4700.4
52.5°	3864.9	3882.6	3839.2	3831.1	3939.9	3997.2	4407.2	4475.5	4224.2	4530.6	4958.3
55°	4066.3	4086.8	4136.8	4193.4	4402.8	4477.7	4973.7	4920.1	4502.7	4861.3	5106.7
57.5°	4351.4	4322.0	4399.1	4510.8	4849.5	4939.9	5522.6	5339.6	4726.8	5129.5	5122.9
60°	4697.4	4701.9	4715.1	4856.2	5295.6	5411.6	6063.4	5736.4	4870.9	5294.1	4943.6
62.5°	5113.3	5119.9	5147.1	5363.9	5894.4	6003.9	6639.5	6061.2	4937.0	5247.8	4480.7
65°	5084.7	5112.6	5416.1	6157.5	6804.8	6912.8	7311.8	6289.0	4837.1	4824.6	3648.2
67.5°	4632.0	4677.6	5185.3	7105.3	8177.4	8297.9	8124.5	6333.8	4405.7	3751.8	2380.0
70°	4038.3	4054.5	4665.1	7957.7	9766.7	9888.7	8851.9	5840.8	3343.2	2092.7	1066.2
72.5°	3153.7	3157.3	3873.8	8155.3	10629.3	10635.9	8281.0	4335.9	1798.0	803.8	370.3
75°	2252.8	2230.8	2594.5	6613.7	9351.5	9426.5	6208.2	2033.9	687.0	379.9	184.4
77.5°	1208.0	1232.2	1468.1	3922.3	6460.2	6588.0	3387.3	586.4	349.8	258.6	122.0
80°	373.3	393.8	601.8	1795.8	3659.2	3736.4	1255.7	260.8	243.9	184.4	80.1
82.5°	117.6	122.0	280.7	754.6	1518.8	1554.1	363.7	147.7	166.8	122.0	47.0
85°	33.8	34.5	124.9	281.4	375.5	382.8	102.1	57.3	95.5	75.7	24.2
87.5°	3.7	11.8	47.0	47.0	33.1	32.3	11.0	12.5	27.2	9.6	4.4
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°	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1456.3	1457.1	1447.5	1431.4	1413.7	1399.0	1380.7	1366.0	1355.7	1352.7	1357.9
5°	1466.6	1461.5	1434.3	1385.1	1326.3	1275.6	1219.0	1174.2	1144.8	1132.3	1136.7
7.5°	1482.0	1467.4	1407.8	1310.8	1198.4	1098.5	997.1	918.5	868.5	843.5	847.2
10°	1495.3	1465.9	1363.8	1203.6	1031.6	880.3	743.6	648.8	595.9	570.9	571.7
12.5°	1507.8	1465.1	1306.4	1076.5	843.5	658.4	531.2	484.2	469.5	464.4	462.9
15°	1531.3	1467.4	1234.4	931.0	656.2	497.4	451.2	450.4	453.4	451.9	451.2
17.5°	1563.6	1469.6	1152.9	776.7	506.3	438.7	436.5	443.1	447.5	445.3	444.5
20°	1605.5	1478.4	1066.2	623.8	435.0	424.0	429.1	435.0	438.7	435.0	434.3
22.5°	1664.3	1493.8	971.4	501.1	412.2	415.2	419.6	426.2	429.8	424.7	424.0
25°	1736.3	1518.1	878.1	435.7	401.2	404.9	411.5	418.8	423.2	418.1	417.4
27.5°	1829.6	1557.0	792.1	421.0	390.2	392.4	401.9	412.9	418.8	412.2	412.2
30°	1964.8	1620.9	717.9	427.6	383.6	378.4	391.6	407.1	413.7	407.8	407.1
32.5°	2144.1	1711.3	672.3	437.9	380.6	362.2	374.7	394.6	405.6	401.9	401.9
35°	2379.2	1848.7	654.7	449.7	378.4	345.3	354.2	375.5	394.6	398.3	398.3
37.5°	2664.3	2039.7	659.8	454.8	371.8	331.4	335.8	354.2	379.1	390.9	393.8
40°	2988.3	2262.4	689.2	449.7	364.5	319.6	320.4	334.3	356.4	374.0	379.9
42.5°	3322.7	2522.5	743.6	430.6	357.8	309.3	307.1	316.7	331.4	343.9	349.0
45°	3640.8	2790.0	797.2	404.1	349.8	299.1	293.9	297.6	300.5	305.7	308.6
47.5°	3918.6	2978.1	781.8	379.9	338.7	287.3	278.5	277.0	268.2	267.5	266.7
50°	4110.4	3019.2	694.4	355.6	322.6	274.1	260.1	251.3	235.9	228.5	229.3
52.5°	4171.3	2856.8	567.2	331.4	296.1	256.4	236.6	222.6	203.5	196.9	196.2
55°	4090.5	2538.7	453.4	302.0	259.4	232.9	210.9	192.5	177.1	169.0	169.0
57.5°	3892.9	2133.8	358.6	267.5	220.4	206.5	184.4	166.1	152.8	144.8	143.3
60°	3565.1	1694.4	283.6	226.3	188.1	177.8	155.0	143.3	131.5	122.0	119.8
62.5°	3067.7	1209.4	222.6	179.3	157.2	145.5	132.3	123.4	109.5	96.3	94.1
65°	2393.9	739.9	171.9	131.5	126.4	120.5	112.4	104.3	87.4	74.2	72.0
67.5°	1510.0	350.5	122.7	99.2	99.9	97.0	93.3	86.7	74.2	62.5	61.0
70°	665.0	169.7	80.8	75.7	74.2	74.2	77.2	74.9	63.2	52.2	50.0
72.5°	226.3	91.1	60.3	57.3	53.6	52.9	64.7	62.5	50.7	40.4	38.2
75°	118.3	61.0	44.1	41.1	32.3	38.9	51.4	48.5	36.0	26.5	24.2
77.5°	77.2	43.4	30.1	26.5	18.4	25.7	38.2	33.8	21.3	13.2	11.8
80°	48.5	28.7	17.6	12.5	8.8	14.0	20.6	14.7	8.1	2.9	2.2
82.5°	25.7	14.7	6.6	4.4	3.7	4.4	5.1	3.7	1.5	0.0	0.0
85°	10.3	5.1	2.2	1.5	0.7	0.0	1.5	0.7	0.0	0.0	0.0
87.5°	3.7	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)