

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: P883568

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
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: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11361 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

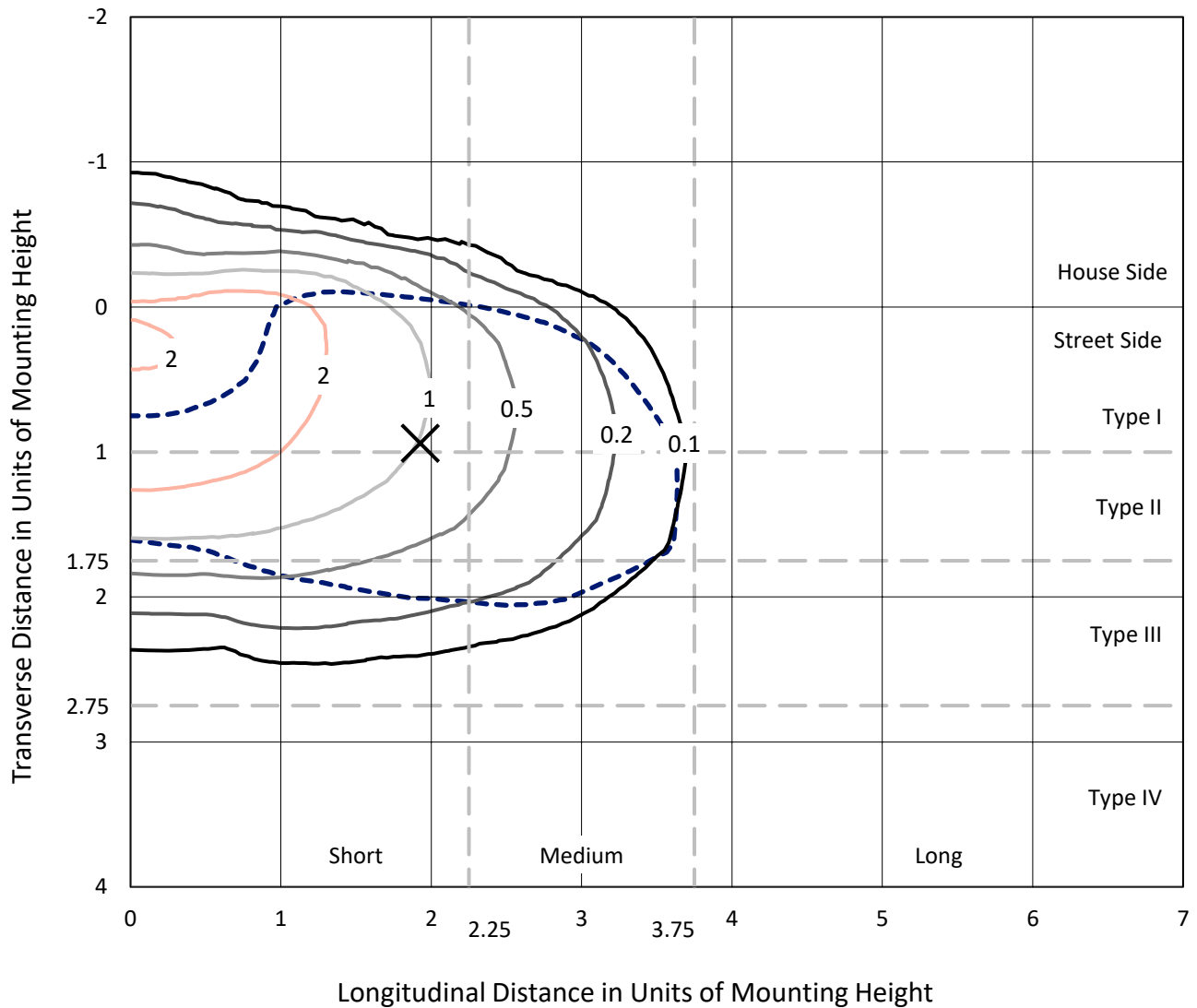
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

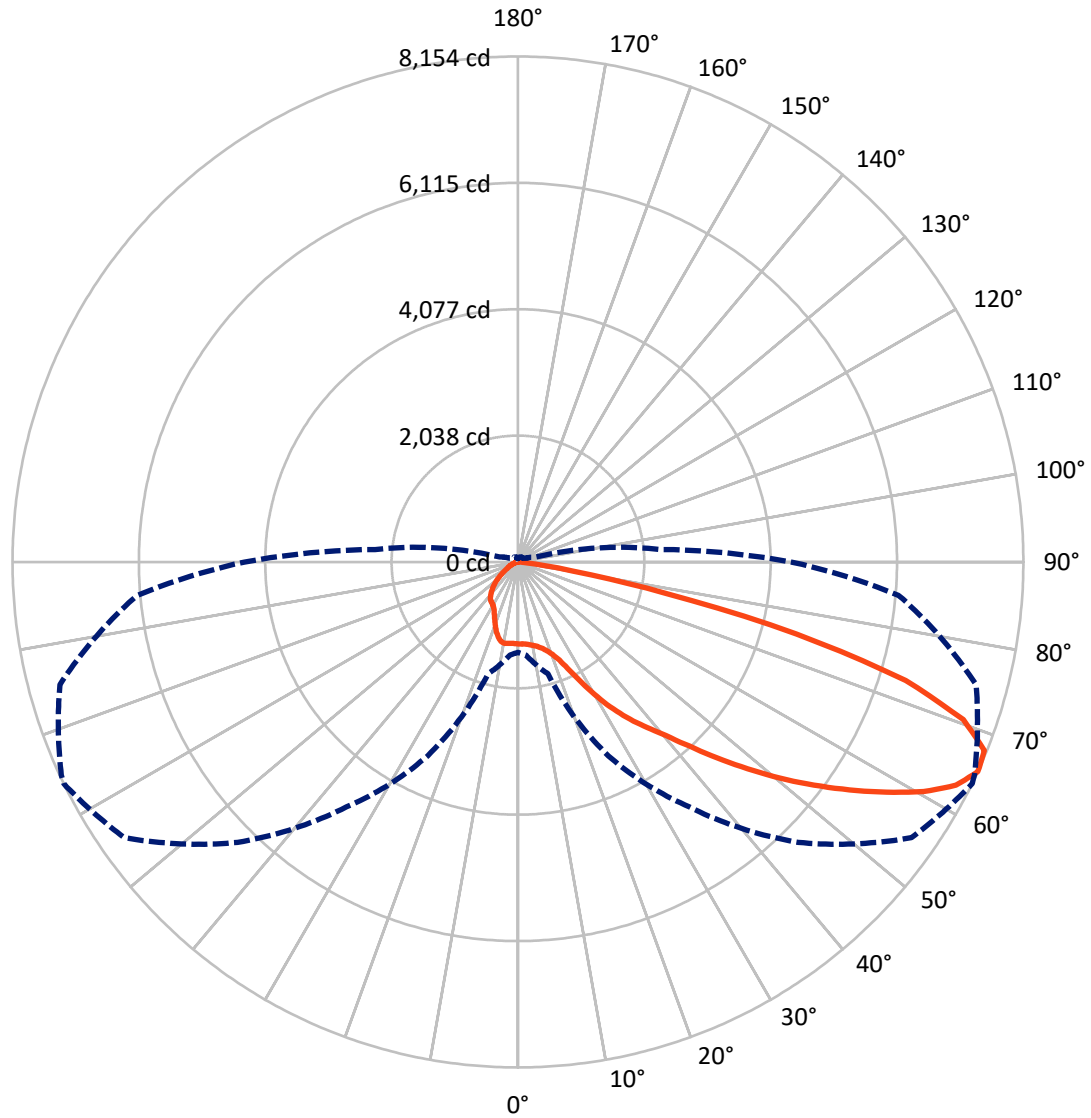
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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
House Side	Lumens	1519.3	0.0	1519.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9841.7	0.0	9841.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	11361.0	0.0	11361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.1
10°-20°	330.7	2.9
20°-30°	626.6	5.5
30°-40°	1267.9	11.2
40°-50°	2159.9	19.0
50°-60°	2937.3	25.9
60°-70°	2758.2	24.3
70°-80°	1105.1	9.7
80°-90°	53.5	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°	11361.0	100.0
0°-180°	11361.0	100.0

Coefficient of Utilization



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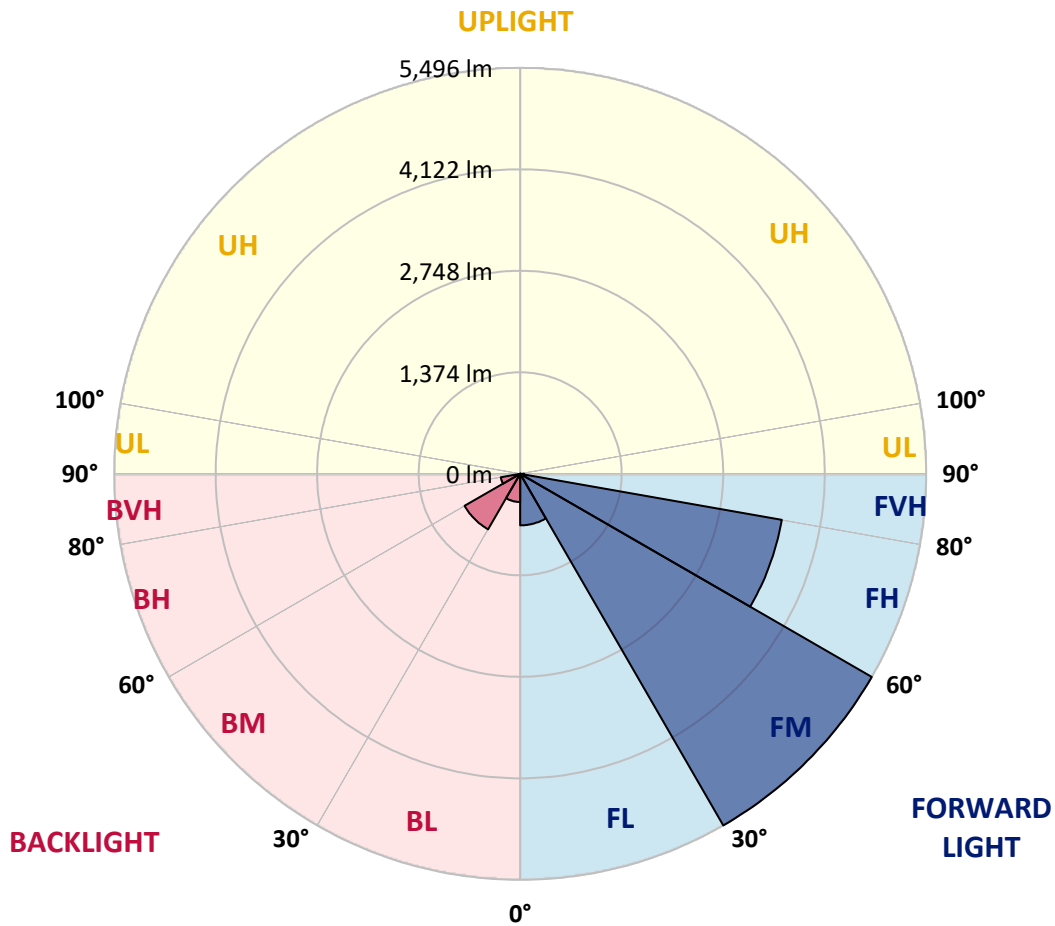
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.7	6.1			
FM (30°-60°)	5496.4	48.4			
FH (60°-80°)	3596.6	31.7			G2/5000
FVH (80°-90°)	50.9	0.4			G1/100
BL (0°-30°)	381.5	3.4	B1/500		
BM (30°-60°)	868.6	7.6	B1/1000		
BH (60°-80°)	266.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1316.8	1326.0	1323.7	1321.4	1320.6	1322.2	1322.9	1322.2	1322.2	1322.2	1322.9
5°	1291.7	1299.3	1299.3	1304.6	1312.3	1321.4	1328.3	1329.8	1331.3	1333.6	1332.8
7.5°	1243.7	1249.8	1254.4	1271.9	1290.9	1315.3	1335.9	1346.5	1348.1	1356.4	1359.5
10°	1211.0	1218.6	1226.2	1244.5	1271.9	1308.5	1343.5	1369.4	1373.2	1393.0	1402.1
12.5°	1209.4	1217.1	1227.0	1246.8	1278.8	1317.6	1360.2	1397.6	1404.4	1433.4	1452.4
15°	1225.4	1234.6	1243.7	1268.1	1302.4	1349.6	1395.3	1441.7	1448.6	1489.7	1510.3
17.5°	1258.2	1270.4	1277.2	1301.6	1338.2	1390.7	1450.9	1504.2	1510.3	1558.3	1584.2
20°	1322.9	1337.4	1339.7	1359.5	1395.3	1451.6	1523.2	1589.5	1597.1	1651.9	1680.9
22.5°	1457.0	1477.5	1459.3	1469.2	1501.1	1557.5	1635.2	1719.0	1729.6	1792.1	1818.0
25°	1693.1	1722.0	1674.8	1658.0	1671.7	1730.4	1827.9	1933.7	1945.9	1996.2	2009.1
27.5°	2156.9	2119.6	2048.0	1977.9	1936.8	1970.3	2080.0	2211.0	2226.2	2274.9	2259.7
30°	2666.4	2633.7	2536.9	2381.6	2284.1	2278.8	2380.0	2526.3	2543.8	2590.3	2543.8
32.5°	3176.7	3145.5	3040.4	2849.2	2680.1	2596.3	2666.4	2828.6	2837.8	2867.5	2798.9
35°	3678.6	3646.6	3541.5	3345.8	3137.9	2947.5	2933.7	3116.5	3119.6	3150.8	3048.7
37.5°	4183.6	4156.9	4044.9	3853.0	3648.1	3385.4	3258.2	3389.2	3393.0	3423.5	3317.6
40°	4543.8	4555.2	4478.3	4329.8	4153.8	3866.7	3622.2	3679.4	3656.5	3707.5	3644.3
42.5°	4853.0	4875.9	4808.8	4734.2	4632.1	4379.3	4073.1	4063.2	4026.7	4054.1	3988.6
45°	5120.3	5139.4	5079.2	5061.7	5059.4	4882.0	4565.9	4506.5	4455.4	4450.1	4371.7
47.5°	5218.6	5255.1	5281.0	5339.7	5453.9	5379.3	5075.4	4983.2	4926.1	4884.2	4760.1
50°	5255.9	5294.7	5383.1	5553.7	5824.1	5856.1	5582.6	5479.1	5409.0	5332.8	5150.0
52.5°	5205.6	5274.9	5393.8	5680.9	6073.1	6238.4	6069.3	5978.7	5898.7	5774.6	5503.4
55°	4909.4	4978.7	5221.6	5679.4	6197.3	6506.5	6529.3	6489.0	6399.1	6203.4	5789.0
57.5°	4284.8	4387.7	4772.3	5485.9	6195.0	6737.2	6980.2	7009.1	6908.6	6628.3	6013.7
60°	3419.7	3559.0	4028.2	5057.1	6003.8	6862.2	7375.5	7520.2	7413.6	7047.2	6195.7
62.5°	2386.1	2547.6	2991.6	4385.4	5566.6	6772.3	7664.1	7931.5	7850.7	7421.9	6265.8
65°	1455.4	1507.2	1865.2	3450.9	4823.3	6396.0	7753.2	8153.9	8127.2	7651.2	6162.2
67.5°	969.5	1012.9	1115.8	2366.3	3744.1	5644.3	7540.0	8115.0	8122.6	7613.9	5782.9
70°	584.2	621.5	688.5	1376.2	2426.5	4467.6	6879.7	7620.0	7664.1	7115.0	5064.0
72.5°	240.7	265.8	326.7	623.8	1256.7	2835.5	5478.3	6542.3	6645.1	5982.5	3886.5
75°	136.3	149.3	191.9	313.0	545.3	1321.4	3318.4	4644.3	4795.9	4123.4	2338.2
77.5°	90.6	96.7	124.1	202.6	306.9	450.9	1418.1	2419.7	2709.1	2252.1	1012.2
80°	60.9	66.3	85.3	135.6	199.5	193.5	451.6	896.4	1102.8	773.8	246.8
82.5°	41.1	41.9	60.9	89.1	126.4	93.7	133.3	278.8	350.3	223.9	93.7
85°	23.6	22.8	44.9	51.8	56.4	38.8	40.4	83.8	109.7	94.4	53.3
87.5°	3.0	4.6	17.5	13.7	7.6	8.4	8.4	14.5	21.3	22.8	11.4
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°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1322.9	1322.2	1319.9	1317.6	1312.3	1309.2	1310.7	1309.2	1308.5	1309.2	1312.3
5°	1332.8	1330.5	1324.4	1316.8	1306.2	1293.2	1284.8	1272.7	1261.2	1254.4	1255.9
7.5°	1359.5	1357.2	1348.8	1327.5	1293.2	1239.1	1189.6	1146.2	1113.5	1094.4	1095.2
10°	1402.1	1398.3	1385.4	1338.2	1248.3	1130.2	1032.0	950.5	897.2	872.0	869.8
12.5°	1452.4	1447.8	1425.0	1328.3	1163.0	978.7	843.1	752.5	703.0	680.9	678.6
15°	1511.8	1505.7	1460.8	1281.0	1038.8	811.1	687.0	619.2	587.2	567.4	568.2
17.5°	1585.7	1575.0	1487.4	1210.2	904.0	683.2	591.0	540.0	511.8	492.8	491.2
20°	1681.6	1664.1	1508.8	1125.7	779.9	602.4	526.3	483.6	462.3	445.5	442.5
22.5°	1815.7	1790.6	1534.7	1034.3	692.3	546.8	478.3	447.1	429.6	410.5	407.5
25°	1981.7	1952.0	1566.6	949.7	632.1	498.9	443.3	417.4	396.8	374.7	372.4
27.5°	2214.0	2160.7	1604.7	880.4	580.4	457.7	411.3	382.3	358.7	340.4	336.6
30°	2473.0	2385.4	1638.2	838.5	533.1	419.6	369.4	340.4	318.4	305.4	303.1
32.5°	2718.2	2599.4	1660.3	820.3	490.5	376.2	323.7	292.5	275.7	271.9	274.2
35°	2949.7	2792.8	1658.0	802.7	452.4	332.8	278.8	246.8	233.8	236.1	236.1
37.5°	3216.3	2999.2	1642.0	775.3	421.2	293.2	239.9	211.7	200.3	201.1	204.1
40°	3526.3	3237.6	1632.1	723.5	386.9	256.7	207.9	185.1	176.7	173.6	172.9
42.5°	3856.8	3468.4	1633.7	664.9	344.3	223.9	185.8	166.8	159.2	156.9	156.1
45°	4188.9	3688.5	1635.9	604.0	299.3	198.8	169.8	153.8	149.3	146.2	146.2
47.5°	4501.1	3875.9	1593.3	538.5	255.1	179.7	156.9	146.2	142.4	138.6	138.6
50°	4792.1	4000.8	1490.5	462.3	220.1	164.5	147.0	139.4	135.6	131.8	131.8
52.5°	5018.3	4020.6	1320.6	383.9	195.7	153.1	140.9	134.0	129.5	125.7	124.9
55°	5118.8	3896.4	1079.2	310.7	176.7	143.2	134.8	128.0	122.6	118.8	118.1
57.5°	5092.9	3635.2	841.6	249.8	158.4	133.3	127.2	122.6	116.5	110.4	109.7
60°	4965.7	3285.6	634.4	207.9	141.7	122.6	118.8	115.0	106.6	97.5	96.0
62.5°	4745.6	2846.2	452.4	172.1	123.4	110.4	108.9	105.9	93.7	76.9	75.4
65°	4409.0	2312.3	304.6	143.2	105.9	96.7	97.5	92.2	76.2	57.1	55.6
67.5°	3917.0	1690.8	195.0	117.3	88.3	80.7	81.5	78.4	64.7	48.7	46.5
70°	3290.2	1119.6	127.2	89.1	70.8	62.5	67.0	67.8	54.8	39.6	38.1
72.5°	2412.0	661.1	89.1	66.3	51.8	43.4	54.8	56.4	44.2	29.7	28.2
75°	1374.7	313.8	67.0	48.0	32.0	30.5	42.7	42.7	30.5	19.8	18.3
77.5°	577.3	131.0	47.2	31.2	18.3	17.5	28.9	26.7	15.2	9.1	9.1
80°	166.8	58.6	25.1	15.2	7.6	6.9	11.4	8.4	3.8	1.5	1.5
82.5°	65.5	25.9	9.9	6.1	3.0	3.0	1.5	0.0	0.0	0.0	0.0
85°	38.8	10.7	4.6	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	2.3	1.5	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)