

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: P882568

Luminaire Tested: **NAV-SB2C-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882568
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-SB2C-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 615mA 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: 11784 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

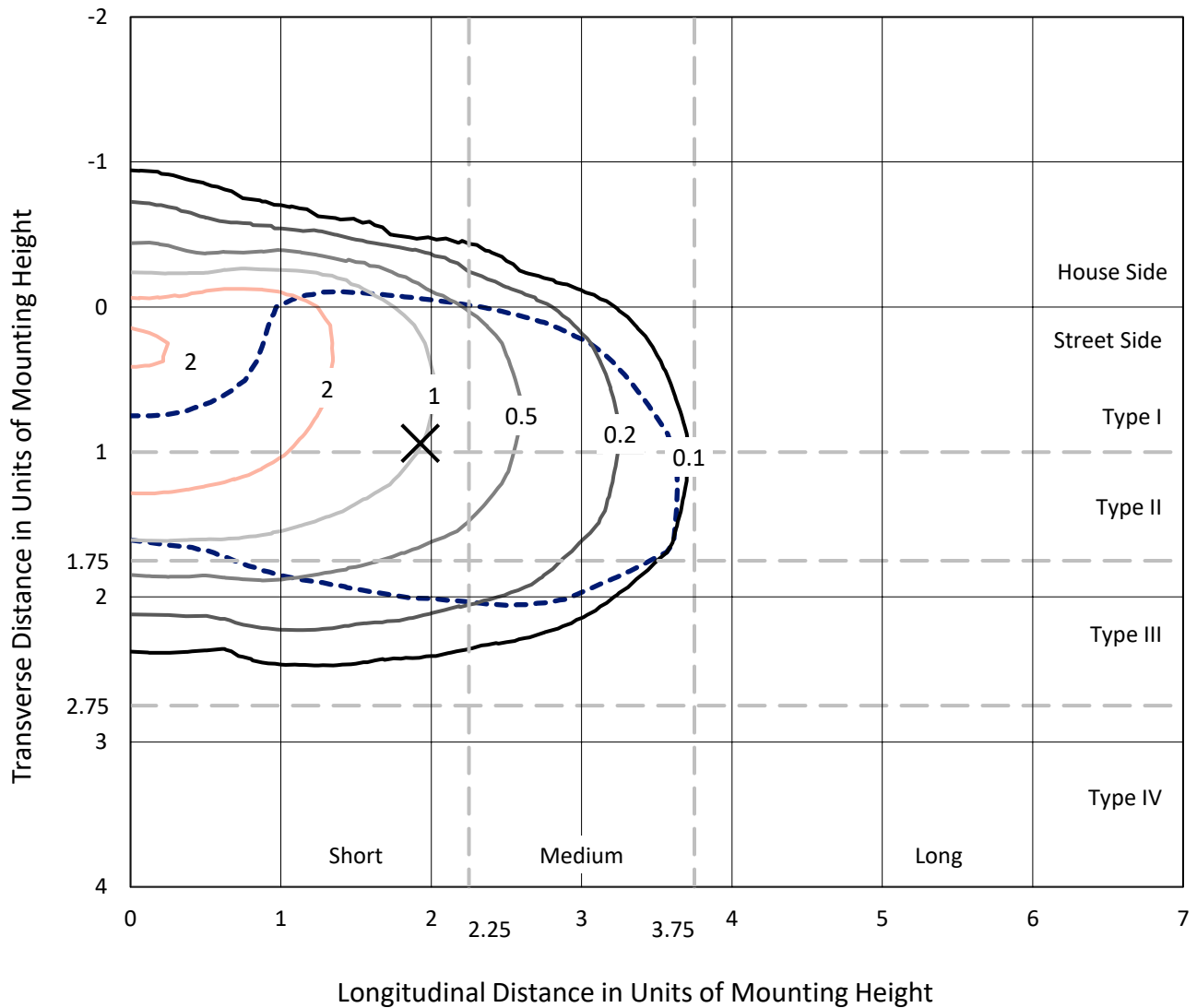
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

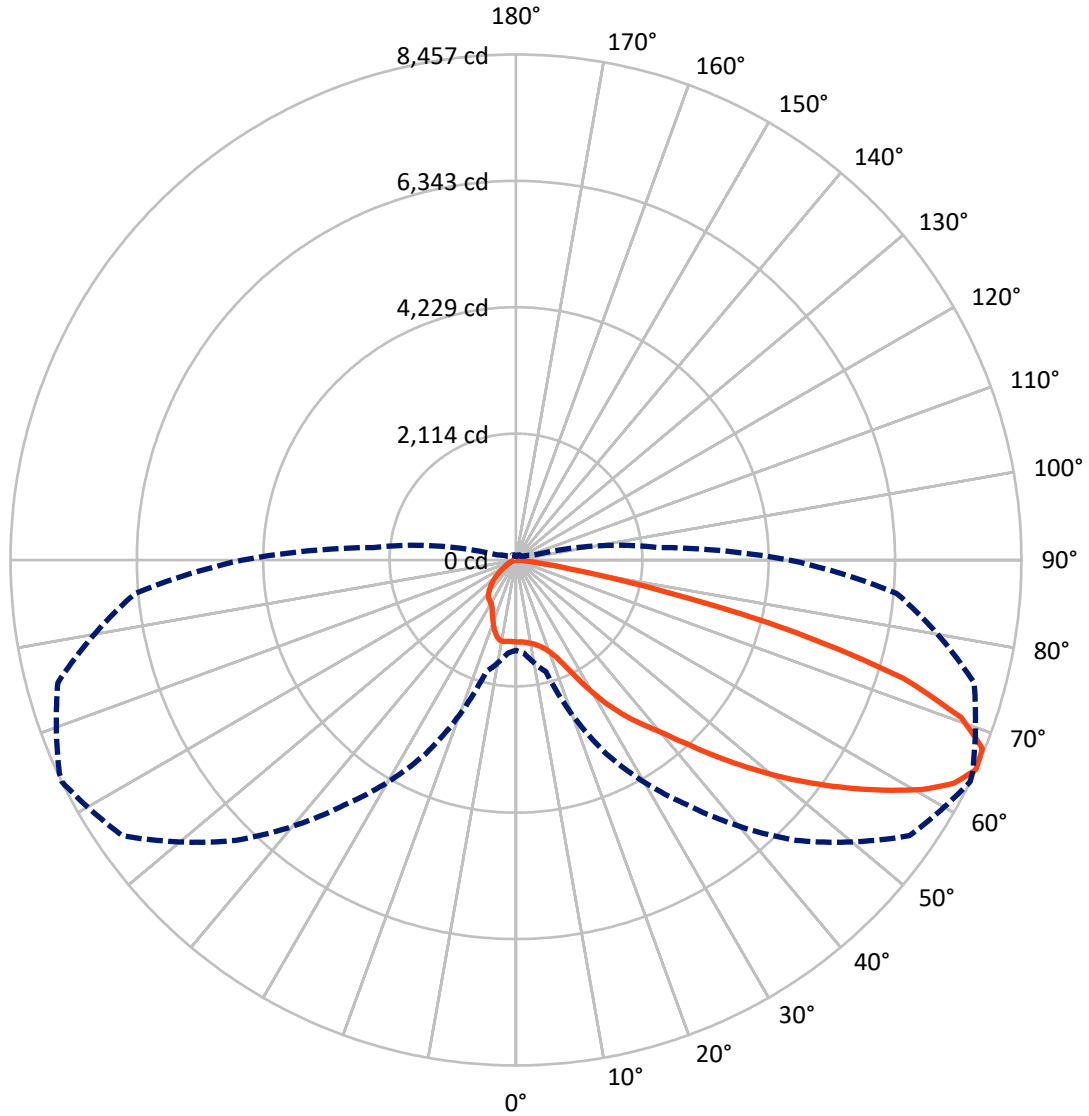
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1575.9	0.0	1575.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10208.1	0.0	10208.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	11784.0	0.0	11784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	1.1
10°-20°	343.0	2.9
20°-30°	649.9	5.5
30°-40°	1315.1	11.2
40°-50°	2240.3	19.0
50°-60°	3046.6	25.9
60°-70°	2860.9	24.3
70°-80°	1146.2	9.7
80°-90°	55.5	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°	11784.0	100.0
0°-180°	11784.0	100.0

Coefficient of Utilization



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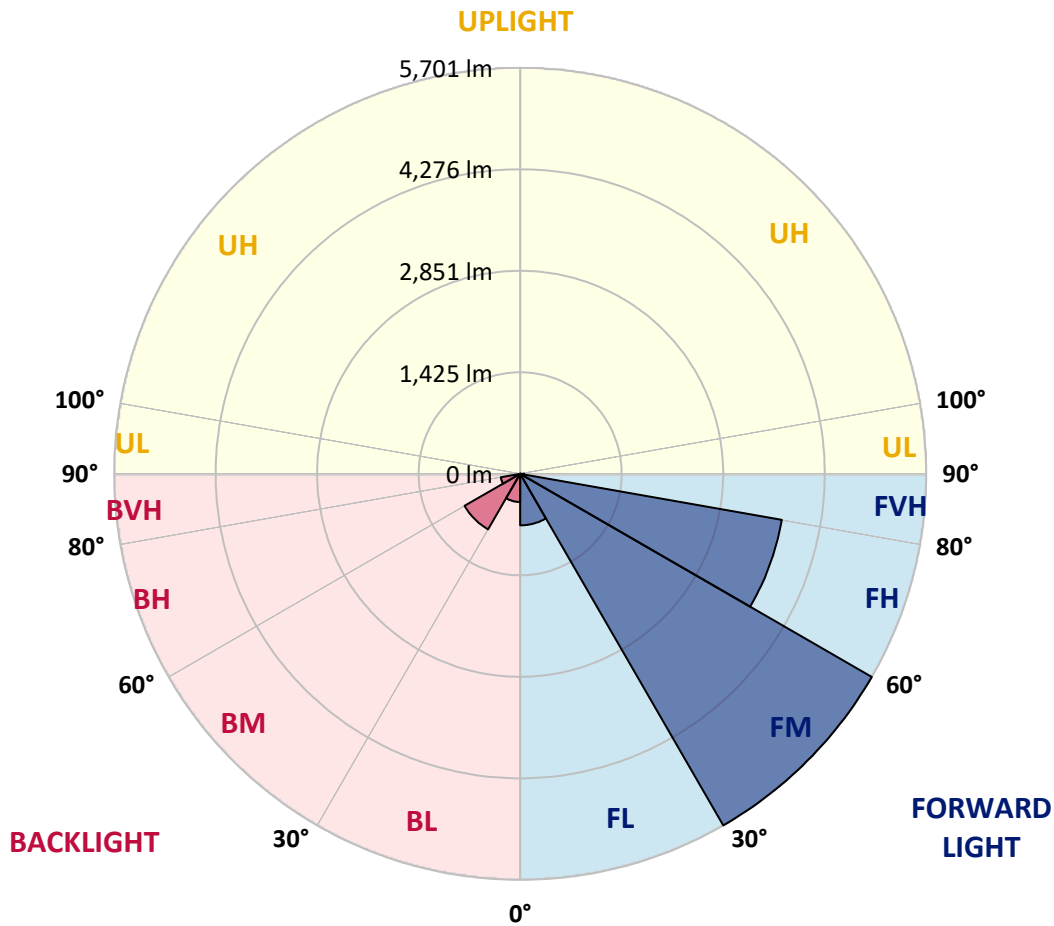
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.7	6.1			
FM (30°-60°)	5701.1	48.4			
FH (60°-80°)	3730.5	31.7			G2/5000
FVH (80°-90°)	52.8	0.4			G1/100
BL (0°-30°)	395.7	3.4	B1/500		
BM (30°-60°)	900.9	7.6	B1/1000		
BH (60°-80°)	276.6	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°	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6
2.5°	1365.9	1375.3	1373.0	1370.6	1369.8	1371.4	1372.2	1371.4	1371.4	1371.4	1372.2
5°	1339.8	1347.7	1347.7	1353.2	1361.1	1370.6	1377.7	1379.3	1380.9	1383.2	1382.5
7.5°	1290.0	1296.3	1301.1	1319.3	1339.0	1364.3	1385.6	1396.7	1398.3	1406.9	1410.1
10°	1256.1	1264.0	1271.9	1290.8	1319.3	1357.2	1393.5	1420.4	1424.3	1444.9	1454.3
12.5°	1254.5	1262.4	1272.6	1293.2	1326.4	1366.7	1410.9	1449.6	1456.7	1486.7	1506.5
15°	1271.1	1280.5	1290.0	1315.3	1350.9	1399.8	1447.2	1495.4	1502.5	1545.2	1566.5
17.5°	1305.0	1317.7	1324.8	1350.1	1388.0	1442.5	1504.9	1560.2	1566.5	1616.3	1643.1
20°	1372.2	1387.2	1389.6	1410.1	1447.2	1505.7	1579.9	1648.7	1656.6	1713.4	1743.5
22.5°	1511.2	1532.5	1513.6	1523.9	1557.0	1615.5	1696.1	1783.0	1794.0	1858.8	1885.7
25°	1756.1	1786.1	1737.1	1719.8	1734.0	1794.8	1895.9	2005.7	2018.4	2070.5	2083.9
27.5°	2237.2	2198.5	2124.2	2051.6	2008.9	2043.7	2157.4	2293.3	2309.1	2359.6	2343.8
30°	2765.7	2731.7	2631.4	2470.2	2369.1	2363.6	2468.7	2620.3	2638.5	2686.7	2638.5
32.5°	3295.0	3262.6	3153.6	2955.3	2779.9	2693.0	2765.7	2934.0	2943.4	2974.2	2903.1
35°	3815.6	3782.4	3673.4	3470.3	3254.7	3057.2	3043.0	3232.6	3235.7	3268.1	3162.3
37.5°	4339.3	4311.7	4195.5	3996.5	3784.0	3511.4	3379.5	3515.4	3519.3	3550.9	3441.1
40°	4713.0	4724.8	4645.0	4491.0	4308.5	4010.7	3757.1	3816.4	3792.7	3845.6	3780.0
42.5°	5033.7	5057.4	4987.9	4910.5	4804.6	4542.3	4224.8	4214.5	4176.6	4205.0	4137.1
45°	5311.0	5330.7	5268.3	5250.2	5247.8	5063.7	4735.9	4674.3	4621.3	4615.8	4534.4
47.5°	5412.9	5450.8	5477.7	5538.5	5657.0	5579.6	5264.4	5168.8	5109.5	5066.1	4937.3
50°	5451.6	5491.9	5583.5	5760.5	6040.9	6074.1	5790.5	5683.1	5610.4	5531.4	5341.8
52.5°	5399.5	5471.3	5594.6	5892.4	6299.2	6470.7	6295.3	6201.3	6118.3	5989.6	5708.3
55°	5092.2	5164.0	5416.0	5890.8	6428.0	6748.7	6772.4	6730.6	6637.3	6434.3	6004.6
57.5°	4444.4	4551.0	4950.0	5690.2	6425.6	6988.1	7240.1	7270.1	7165.8	6875.1	6237.6
60°	3547.0	3691.5	4178.2	5245.4	6227.3	7117.6	7650.1	7800.2	7689.6	7309.6	6426.4
62.5°	2475.0	2642.5	3103.0	4548.7	5773.9	7024.4	7949.5	8226.8	8143.0	7698.3	6499.1
65°	1509.6	1563.4	1934.6	3579.4	5002.9	6634.2	8041.9	8457.4	8429.8	7936.1	6391.7
67.5°	1005.6	1050.7	1157.3	2454.4	3883.5	5854.5	7820.7	8417.2	8425.1	7897.4	5998.3
70°	605.9	644.6	714.1	1427.5	2516.9	4634.0	7135.8	7903.7	7949.5	7379.9	5252.5
72.5°	249.6	275.7	338.9	647.0	1303.5	2941.1	5682.3	6785.9	6892.5	6205.2	4031.2
75°	141.4	154.8	199.1	324.7	565.6	1370.6	3441.9	4817.2	4974.5	4276.9	2425.2
77.5°	94.0	100.3	128.8	210.1	318.4	467.7	1470.9	2509.7	2809.9	2335.9	1049.9
80°	63.2	68.7	88.5	140.6	207.0	200.7	468.5	929.8	1143.9	802.6	256.0
82.5°	42.7	43.4	63.2	92.4	131.1	97.2	138.2	289.1	363.4	232.3	97.2
85°	24.5	23.7	46.6	53.7	58.5	40.3	41.9	86.9	113.8	98.0	55.3
87.5°	3.2	4.7	18.2	14.2	7.9	8.7	8.7	15.0	22.1	23.7	11.8
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°	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6	1370.6
2.5°	1372.2	1371.4	1369.0	1366.7	1361.1	1358.0	1359.5	1358.0	1357.2	1358.0	1361.1
5°	1382.5	1380.1	1373.8	1365.9	1354.8	1341.4	1332.7	1320.0	1308.2	1301.1	1302.7
7.5°	1410.1	1407.7	1399.0	1376.9	1341.4	1285.3	1233.9	1188.9	1154.9	1135.2	1136.0
10°	1454.3	1450.4	1437.0	1388.0	1294.8	1172.3	1070.4	985.9	930.6	904.5	902.1
12.5°	1506.5	1501.7	1478.0	1377.7	1206.3	1015.1	874.5	780.5	729.1	706.2	703.9
15°	1568.1	1561.8	1515.2	1328.7	1077.5	841.3	712.6	642.2	609.1	588.5	589.3
17.5°	1644.7	1633.7	1542.8	1255.3	937.7	708.6	613.0	560.1	530.9	511.1	509.5
20°	1744.3	1726.1	1564.9	1167.6	808.9	624.9	545.9	501.6	479.5	462.1	459.0
22.5°	1883.3	1857.2	1591.8	1072.8	718.1	567.2	496.1	463.7	445.5	425.8	422.6
25°	2055.5	2024.7	1625.0	985.1	655.7	517.4	459.8	432.9	411.6	388.7	386.3
27.5°	2296.4	2241.2	1664.5	913.2	602.0	474.8	426.6	396.6	372.1	353.1	349.2
30°	2565.0	2474.2	1699.2	869.8	553.0	435.3	383.1	353.1	330.2	316.8	314.4
32.5°	2819.4	2696.2	1722.1	850.8	508.7	390.2	335.7	303.3	286.0	282.0	284.4
35°	3059.6	2896.8	1719.8	832.6	469.2	345.2	289.1	256.0	242.5	244.9	244.9
37.5°	3336.1	3110.9	1703.2	804.2	436.9	304.1	248.8	219.6	207.8	208.6	211.7
40°	3657.6	3358.2	1692.9	750.5	401.3	266.2	215.7	192.0	183.3	180.1	179.3
42.5°	4000.4	3597.5	1694.5	689.6	357.1	232.3	192.8	173.0	165.1	162.7	161.9
45°	4344.8	3825.8	1696.9	626.4	310.5	206.2	176.2	159.6	154.8	151.7	151.7
47.5°	4668.7	4020.2	1652.6	558.5	264.6	186.4	162.7	151.7	147.7	143.8	143.8
50°	4970.5	4149.7	1546.0	479.5	228.3	170.6	152.5	144.6	140.6	136.7	136.7
52.5°	5205.1	4170.3	1369.8	398.1	203.0	158.8	146.1	139.0	134.3	130.3	129.6
55°	5309.4	4041.5	1119.4	322.3	183.3	148.5	139.8	132.7	127.2	123.2	122.4
57.5°	5282.5	3770.5	872.9	259.1	164.3	138.2	131.9	127.2	120.9	114.5	113.8
60°	5150.6	3407.9	658.0	215.7	146.9	127.2	123.2	119.3	110.6	101.1	99.5
62.5°	4922.3	2952.1	469.2	178.5	128.0	114.5	113.0	109.8	97.2	79.8	78.2
65°	4573.1	2398.4	316.0	148.5	109.8	100.3	101.1	95.6	79.0	59.2	57.7
67.5°	4062.8	1753.7	202.2	121.7	91.6	83.7	84.5	81.4	67.1	50.6	48.2
70°	3412.7	1161.3	131.9	92.4	73.5	64.8	69.5	70.3	56.9	41.1	39.5
72.5°	2501.8	685.7	92.4	68.7	53.7	45.0	56.9	58.5	45.8	30.8	29.2
75°	1425.9	325.5	69.5	49.8	33.2	31.6	44.2	44.2	31.6	20.5	19.0
77.5°	598.8	135.9	49.0	32.4	19.0	18.2	30.0	27.6	15.8	9.5	9.5
80°	173.0	60.8	26.1	15.8	7.9	7.1	11.8	8.7	3.9	1.6	1.6
82.5°	67.9	26.9	10.3	6.3	3.2	3.2	1.6	0.0	0.0	0.0	0.0
85°	40.3	11.1	4.7	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	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)