

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: P882908

Luminaire Tested: **NAV-SB3A-730-U-T3-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882908  
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-SB3A-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

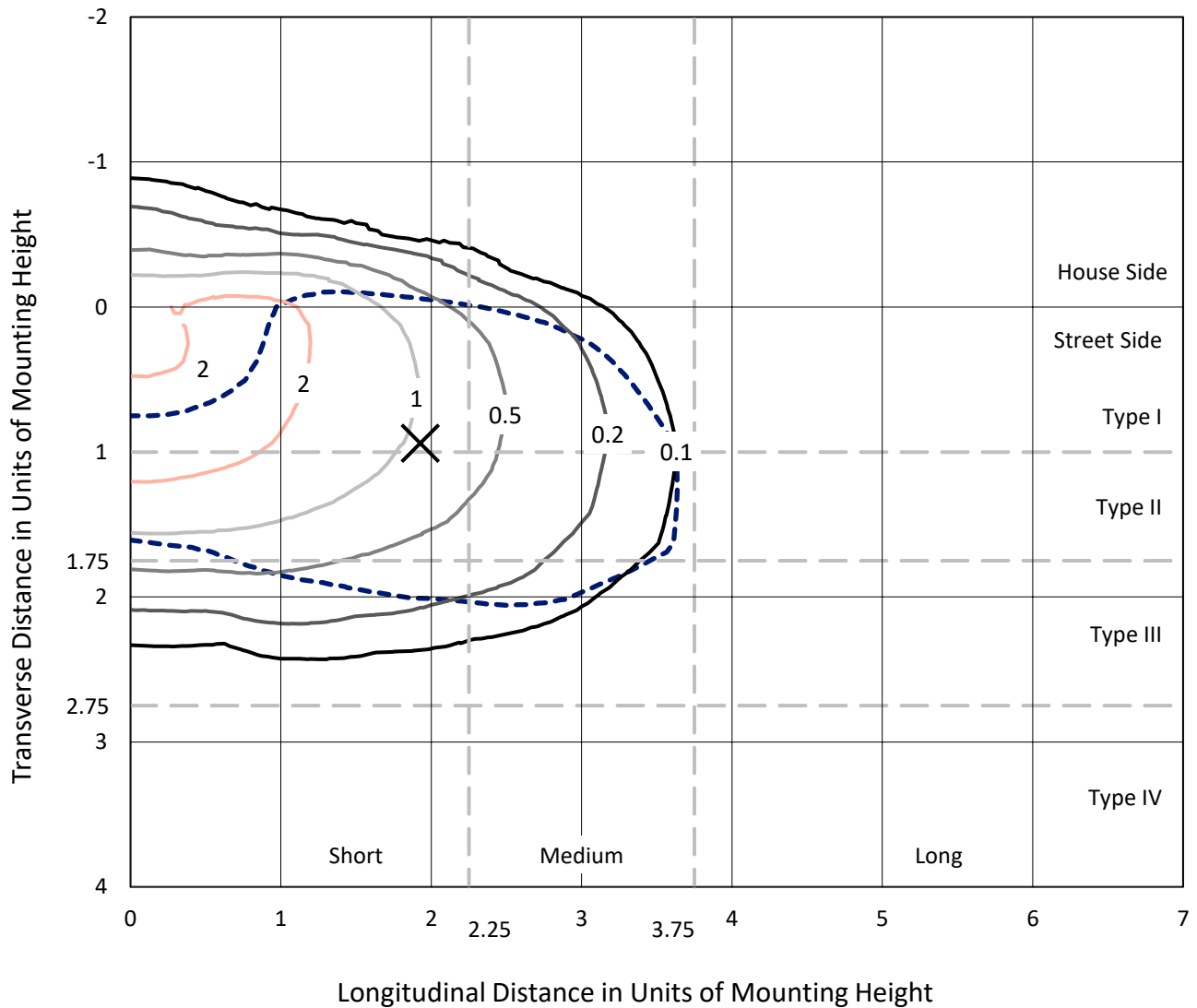
Lumens per Lamp: N/A  
Luminaire Lumens: 10387 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 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

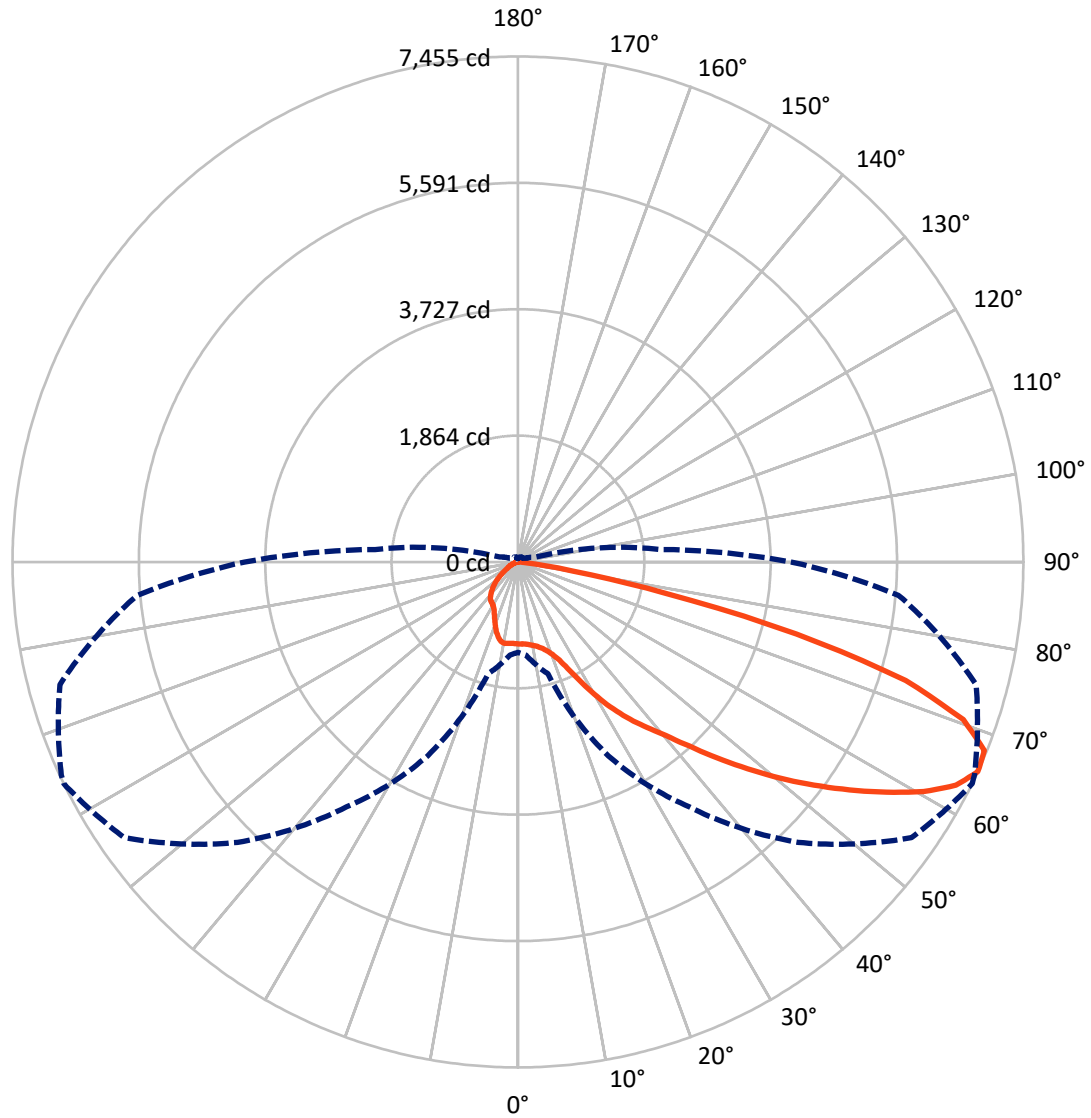
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	1389.1	0.0	1389.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	8997.9	0.0	8997.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	10387.0	0.0	10387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.5	1.1
10°-20°	302.3	2.9
20°-30°	572.9	5.5
30°-40°	1159.2	11.2
40°-50°	1974.7	19.0
50°-60°	2685.4	25.9
60°-70°	2521.8	24.3
70°-80°	1010.3	9.7
80°-90°	48.9	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°	10387.0	100.0
0°-180°	10387.0	100.0

**Coefficient of Utilization**



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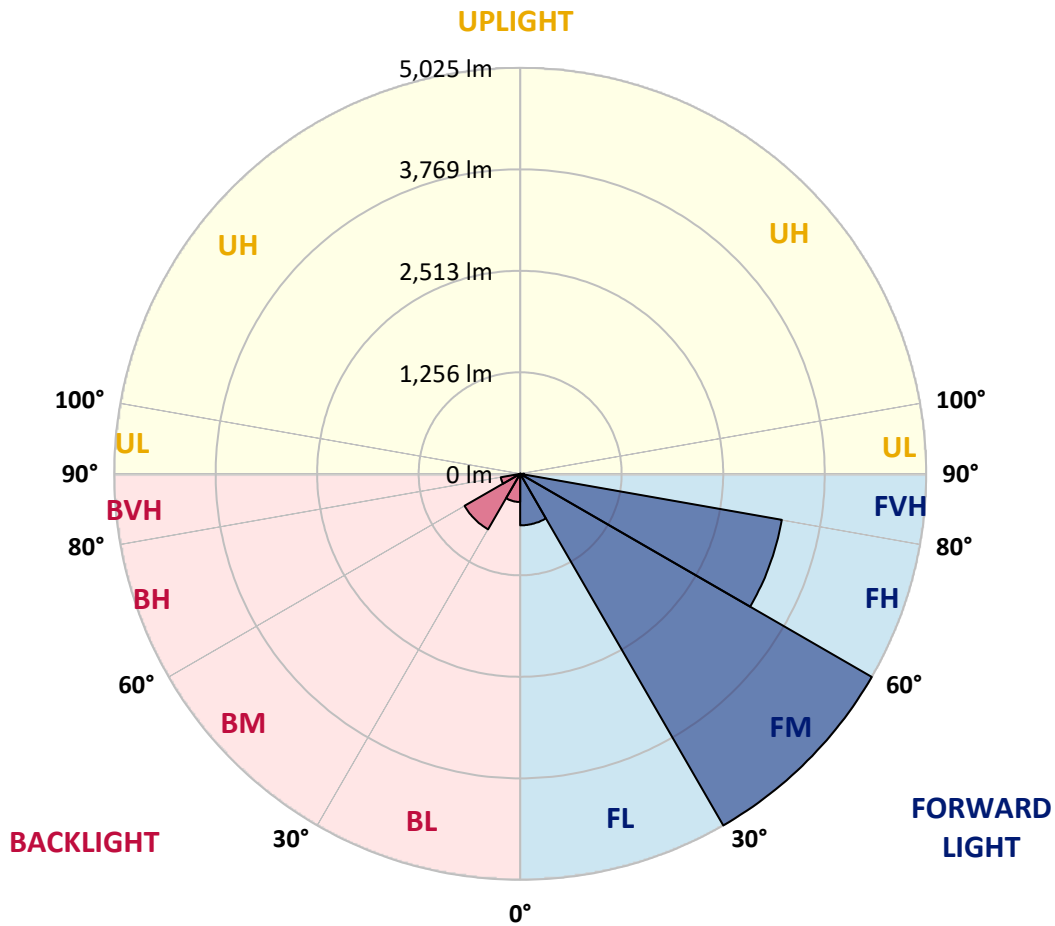
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.9	6.1			
FM (30°-60°)	5025.2	48.4			
FH (60°-80°)	3288.3	31.7			G2/5000
FVH (80°-90°)	46.6	0.4			G1/100
BL (0°-30°)	348.8	3.4	B1/500		
BM (30°-60°)	794.1	7.6	B1/1000		
BH (60°-80°)	243.8	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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°	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1
2.5°	1203.9	1212.3	1210.2	1208.1	1207.4	1208.8	1209.5	1208.8	1208.8	1208.8	1209.5
5°	1181.0	1187.9	1187.9	1192.8	1199.8	1208.1	1214.4	1215.8	1217.2	1219.3	1218.6
7.5°	1137.1	1142.7	1146.8	1162.9	1180.3	1202.5	1221.3	1231.1	1232.5	1240.1	1242.9
10°	1107.1	1114.1	1121.1	1137.8	1162.9	1196.3	1228.3	1252.0	1255.5	1273.6	1281.9
12.5°	1105.8	1112.7	1121.8	1139.9	1169.1	1204.6	1243.6	1277.7	1284.0	1310.5	1327.9
15°	1120.4	1128.7	1137.1	1159.4	1190.7	1233.9	1275.7	1318.1	1324.4	1362.0	1380.8
17.5°	1150.3	1161.5	1167.7	1190.0	1223.4	1271.5	1326.5	1375.2	1380.8	1424.7	1448.3
20°	1209.5	1222.7	1224.8	1242.9	1275.7	1327.2	1392.6	1453.2	1460.2	1510.3	1536.8
22.5°	1332.1	1350.9	1334.1	1343.2	1372.4	1424.0	1495.0	1571.6	1581.3	1638.4	1662.1
25°	1547.9	1574.4	1531.2	1515.9	1528.4	1582.0	1671.2	1768.0	1779.1	1825.1	1836.9
27.5°	1972.0	1937.9	1872.4	1808.3	1770.7	1801.4	1901.7	2021.4	2035.3	2079.9	2066.0
30°	2437.8	2407.9	2319.4	2177.4	2088.3	2083.4	2176.0	2309.7	2325.7	2368.2	2325.7
32.5°	2904.4	2875.8	2779.7	2604.9	2450.4	2373.8	2437.8	2586.1	2594.5	2621.6	2559.0
35°	3363.2	3334.0	3237.9	3058.9	2868.8	2694.8	2682.2	2849.3	2852.1	2880.7	2787.4
37.5°	3824.9	3800.5	3698.2	3522.7	3335.4	3095.1	2978.9	3098.6	3102.1	3130.0	3033.2
40°	4154.2	4164.7	4094.4	3958.6	3797.7	3535.2	3311.7	3363.9	3343.0	3389.7	3331.9
42.5°	4437.0	4457.8	4396.6	4328.3	4235.0	4003.8	3723.9	3714.9	3681.4	3706.5	3646.6
45°	4681.4	4698.8	4643.8	4627.7	4625.7	4463.4	4174.4	4120.1	4073.5	4068.6	3996.9
47.5°	4771.2	4804.6	4828.3	4881.9	4986.4	4918.1	4640.3	4556.0	4503.8	4465.5	4352.0
50°	4805.3	4840.8	4921.6	5077.6	5324.8	5354.0	5104.0	5009.3	4945.3	4875.6	4708.5
52.5°	4759.4	4822.7	4931.3	5193.9	5552.5	5703.6	5549.0	5466.1	5393.0	5279.5	5031.6
55°	4488.5	4551.8	4774.0	5192.5	5666.0	5948.7	5969.6	5932.7	5850.5	5671.5	5292.7
57.5°	3917.5	4011.5	4363.1	5015.6	5663.9	6159.7	6381.8	6408.2	6316.3	6060.1	5498.1
60°	3126.5	3253.9	3682.8	4623.6	5489.1	6273.8	6743.2	6875.5	6778.0	6443.1	5664.6
62.5°	2181.6	2329.2	2735.1	4009.4	5089.4	6191.7	7007.1	7251.5	7177.7	6785.6	5728.6
65°	1330.7	1378.0	1705.3	3155.0	4409.8	5847.7	7088.5	7454.8	7430.4	6995.2	5633.9
67.5°	886.4	926.1	1020.1	2163.5	3423.1	5160.4	6893.6	7419.3	7426.3	6961.1	5287.2
70°	534.1	568.2	629.5	1258.3	2218.5	4084.6	6289.9	6966.7	7007.1	6505.0	4629.8
72.5°	220.0	243.0	298.7	570.3	1148.9	2592.4	5008.6	5981.4	6075.4	5469.6	3553.3
75°	124.6	136.5	175.5	286.2	498.6	1208.1	3033.9	4246.2	4384.7	3769.9	2137.7
77.5°	82.9	88.4	113.5	185.2	280.6	412.2	1296.5	2212.2	2476.8	2059.0	925.4
80°	55.7	60.6	78.0	123.9	182.4	176.9	412.9	819.6	1008.3	707.5	225.6
82.5°	37.6	38.3	55.7	81.5	115.6	85.6	121.9	254.9	320.3	204.7	85.6
85°	21.6	20.9	41.1	47.3	51.5	35.5	36.9	76.6	100.3	86.3	48.7
87.5°	2.8	4.2	16.0	12.5	7.0	7.7	7.7	13.2	19.5	20.9	10.4
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°	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1	1208.1
2.5°	1209.5	1208.8	1206.7	1204.6	1199.8	1197.0	1198.4	1197.0	1196.3	1197.0	1199.8
5°	1218.6	1216.5	1210.9	1203.9	1194.2	1182.4	1174.7	1163.6	1153.1	1146.8	1148.2
7.5°	1242.9	1240.8	1233.2	1213.7	1182.4	1132.9	1087.7	1048.0	1018.0	1000.6	1001.3
10°	1281.9	1278.4	1266.6	1223.4	1141.3	1033.3	943.5	869.0	820.3	797.3	795.2
12.5°	1327.9	1323.7	1302.8	1214.4	1063.3	894.8	770.8	688.0	642.7	622.5	620.4
15°	1382.2	1376.6	1335.5	1171.2	949.8	741.6	628.1	566.1	536.9	518.8	519.5
17.5°	1449.7	1440.0	1359.9	1106.5	826.5	624.6	540.3	493.7	467.9	450.5	449.1
20°	1537.5	1521.5	1379.4	1029.2	713.0	550.8	481.2	442.2	422.7	407.3	404.6
22.5°	1660.0	1637.0	1403.1	945.6	633.0	500.0	437.3	408.7	392.7	375.3	372.5
25°	1811.8	1784.7	1432.3	868.3	577.9	456.1	405.3	381.6	362.8	342.6	340.5
27.5°	2024.2	1975.5	1467.1	804.9	530.6	418.5	376.0	349.6	328.0	311.3	307.8
30°	2261.0	2180.9	1497.8	766.6	487.4	383.7	337.7	311.3	291.1	279.2	277.1
32.5°	2485.2	2376.5	1518.0	749.9	448.4	344.0	295.9	267.4	252.1	248.6	250.7
35°	2696.8	2553.4	1515.9	733.9	413.6	304.3	254.9	225.6	213.8	215.9	215.9
37.5°	2940.6	2742.1	1501.3	708.9	385.1	268.1	219.3	193.6	183.1	183.8	186.6
40°	3224.0	2960.1	1492.2	661.5	353.7	234.7	190.1	169.2	161.5	158.8	158.1
42.5°	3526.2	3171.0	1493.6	607.9	314.7	204.7	169.9	152.5	145.5	143.4	142.7
45°	3829.8	3372.3	1495.7	552.2	273.7	181.7	155.3	140.7	136.5	133.7	133.7
47.5°	4115.3	3543.6	1456.7	492.3	233.3	164.3	143.4	133.7	130.2	126.7	126.7
50°	4381.2	3657.8	1362.7	422.7	201.2	150.4	134.4	127.4	123.9	120.5	120.5
52.5°	4588.1	3675.9	1207.4	350.9	179.0	140.0	128.8	122.6	118.4	114.9	114.2
55°	4680.0	3562.4	986.7	284.1	161.5	130.9	123.2	117.0	112.1	108.6	107.9
57.5°	4656.3	3323.5	769.4	228.4	144.8	121.9	116.3	112.1	106.5	101.0	100.3
60°	4540.0	3003.9	580.0	190.1	129.5	112.1	108.6	105.1	97.5	89.1	87.7
62.5°	4338.8	2602.1	413.6	157.4	112.8	101.0	99.6	96.8	85.6	70.3	68.9
65°	4031.0	2114.0	278.5	130.9	96.8	88.4	89.1	84.3	69.6	52.2	50.8
67.5°	3581.2	1545.8	178.3	107.2	80.8	73.8	74.5	71.7	59.2	44.6	42.5
70°	3008.1	1023.6	116.3	81.5	64.8	57.1	61.3	62.0	50.1	36.2	34.8
72.5°	2205.2	604.4	81.5	60.6	47.3	39.7	50.1	51.5	40.4	27.2	25.8
75°	1256.9	286.9	61.3	43.9	29.2	27.9	39.0	39.0	27.9	18.1	16.7
77.5°	527.8	119.8	43.2	28.5	16.7	16.0	26.5	24.4	13.9	8.4	8.4
80°	152.5	53.6	23.0	13.9	7.0	6.3	10.4	7.7	3.5	1.4	1.4
82.5°	59.9	23.7	9.1	5.6	2.8	2.8	1.4	0.0	0.0	0.0	0.0
85°	35.5	9.7	4.2	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	2.1	1.4	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)