

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: P960247

Luminaire Tested: **NAV-SB1C-722-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5141.4 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

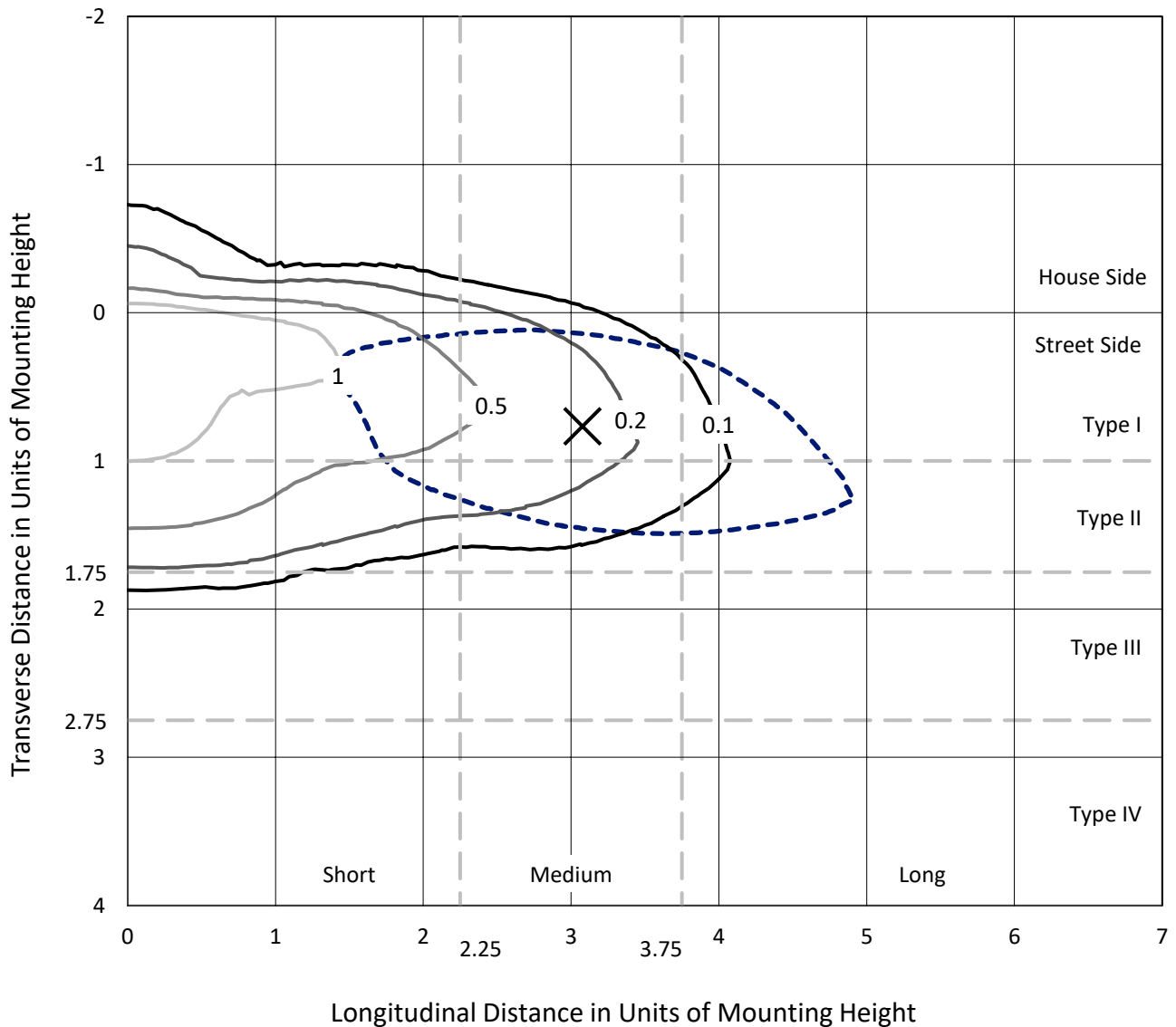
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

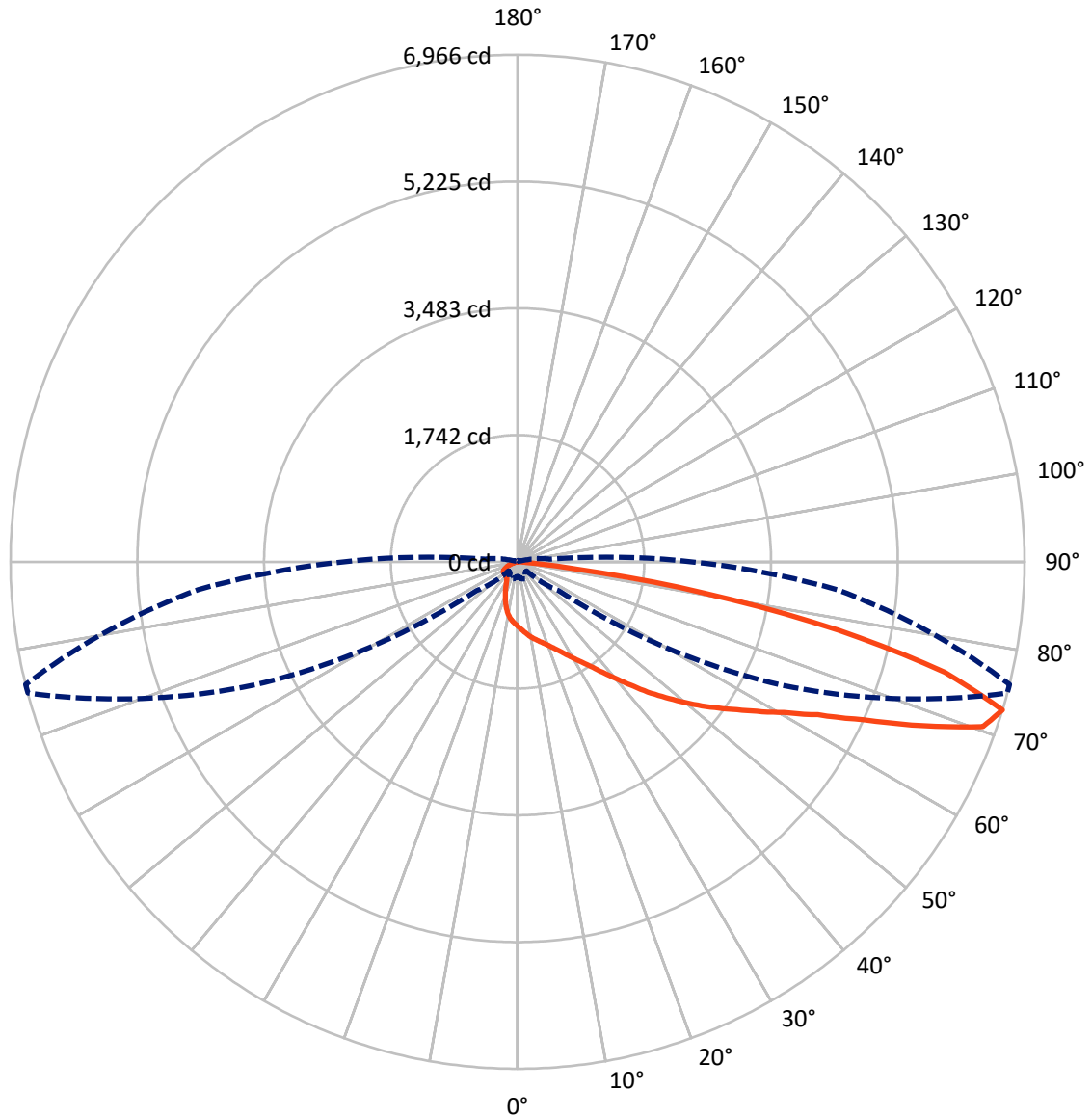
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.2	0.0	526.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	4615.2	0.0	4615.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	5141.4	0.0	5141.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.6
10°-20°	216.7	4.2
20°-30°	342.9	6.7
30°-40°	530.6	10.3
40°-50°	805.8	15.7
50°-60°	1110.9	21.6
60°-70°	1173.6	22.8
70°-80°	805.1	15.7
80°-90°	74.9	1.5
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°	5141.4	100.0
0°-180°	5141.4	100.0

Coefficient of Utilization

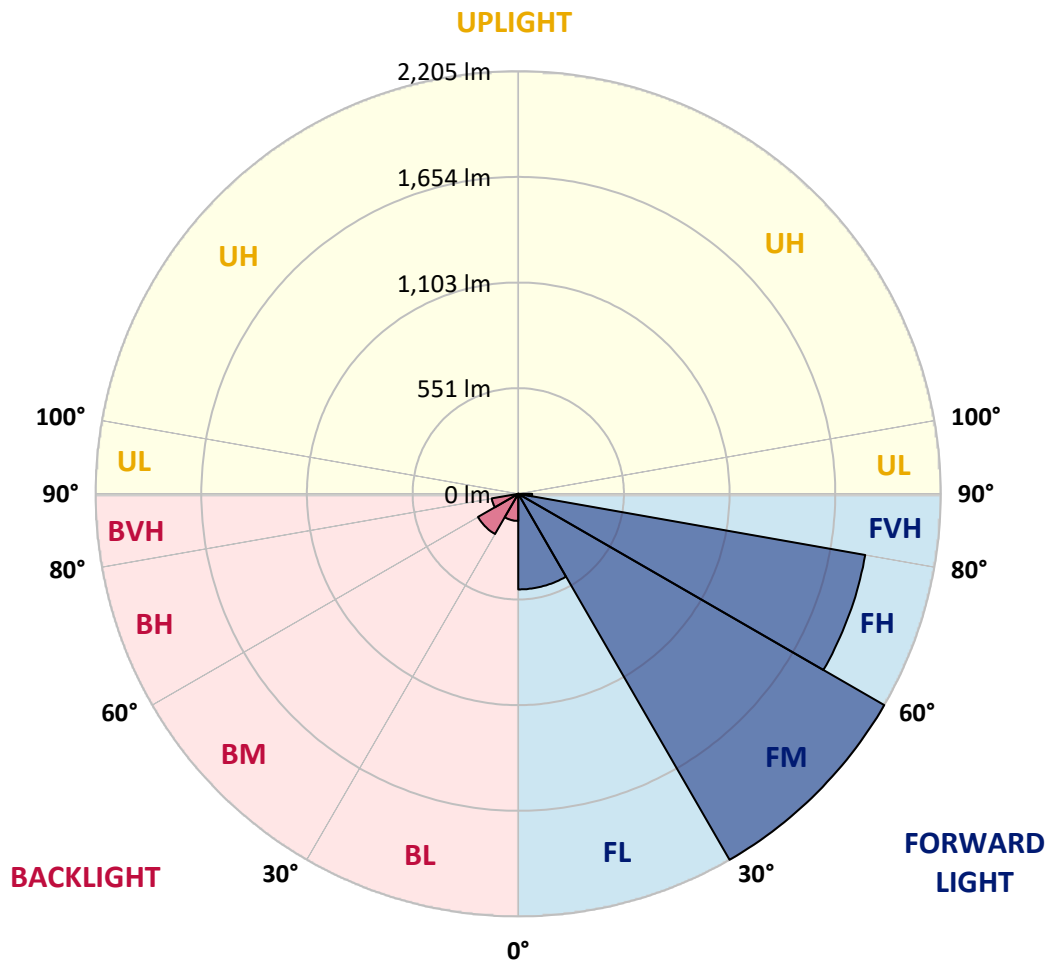


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.0	9.7			
FM (30°-60°)	2205.0	42.9			
FH (60°-80°)	1838.3	35.8			G2/5000
FVH (80°-90°)	72.9	1.4			G1/100
BL (0°-30°)	141.4	2.8	B1/500		
BM (30°-60°)	242.3	4.7	B1/1000		
BH (60°-80°)	140.5	2.7	B1/500		G1/500
BVH (80°-90°)	2.0	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5
2.5°	1032.9	1019.3	1021.9	1008.2	1001.8	986.6	970.6	949.6	926.2	926.2	903.5
5°	1141.6	1132.9	1132.9	1116.9	1104.6	1080.6	1051.9	1014.9	970.9	966.5	923.5
7.5°	1208.3	1202.9	1206.3	1197.0	1186.9	1161.9	1127.9	1079.6	1017.2	1011.9	947.2
10°	1221.3	1221.0	1230.3	1233.0	1239.6	1227.0	1196.7	1140.9	1062.9	1055.2	967.5
12.5°	1171.0	1164.6	1187.7	1214.6	1252.7	1269.7	1254.0	1197.0	1104.6	1093.9	986.6
15°	1088.2	1089.6	1111.6	1153.3	1216.7	1277.4	1297.6	1251.6	1147.0	1134.3	1004.5
17.5°	1040.9	1035.9	1054.9	1092.2	1162.2	1248.0	1318.0	1302.7	1192.0	1177.6	1022.8
20°	1035.2	1034.8	1039.2	1056.3	1109.6	1206.0	1315.7	1352.4	1245.0	1228.4	1049.2
22.5°	1074.6	1073.9	1070.2	1066.9	1081.6	1164.9	1305.7	1399.7	1308.4	1290.4	1086.6
25°	1135.0	1134.0	1128.3	1107.9	1093.6	1143.0	1296.3	1443.8	1383.4	1363.4	1131.9
27.5°	1208.7	1208.0	1197.6	1167.0	1130.0	1144.9	1291.7	1489.1	1470.2	1450.5	1184.3
30°	1299.0	1297.6	1276.3	1233.0	1184.6	1176.6	1298.1	1540.2	1560.5	1545.5	1244.7
32.5°	1412.4	1408.8	1380.8	1315.4	1247.6	1219.0	1310.1	1592.5	1667.6	1653.5	1325.4
35°	1500.2	1494.4	1478.2	1420.4	1320.7	1271.0	1338.0	1654.6	1796.3	1783.9	1428.4
37.5°	1575.5	1569.9	1556.5	1509.1	1425.5	1337.4	1383.0	1737.3	1948.4	1942.4	1554.2
40°	1656.9	1647.6	1641.2	1590.5	1514.8	1433.2	1447.4	1834.0	2123.5	2124.1	1705.3
42.5°	1719.6	1716.0	1716.6	1677.6	1601.2	1546.5	1532.8	1943.1	2333.2	2339.6	1887.0
45°	1773.2	1770.3	1782.6	1755.3	1688.3	1620.8	1632.9	2066.4	2562.7	2575.7	2090.5
47.5°	1814.7	1817.9	1835.7	1817.9	1778.6	1673.2	1721.6	2199.5	2803.9	2805.5	2300.6
50°	1856.0	1857.3	1886.7	1878.0	1862.0	1739.6	1803.3	2348.3	3058.0	3061.0	2497.0
52.5°	1869.0	1867.0	1913.7	1935.0	1935.7	1821.6	1909.1	2510.3	3307.2	3316.8	2699.1
55°	1802.3	1808.0	1883.3	1970.0	2004.4	1935.0	2051.7	2715.4	3572.6	3576.6	2899.2
57.5°	1476.1	1507.5	1674.2	1875.3	2048.8	2097.5	2256.8	2955.3	3879.1	3875.4	3102.0
60°	895.8	933.2	1132.6	1572.9	1904.0	2260.5	2559.0	3326.8	4214.0	4203.6	3307.2
62.5°	500.9	512.3	575.9	941.5	1448.1	2156.8	2854.2	3804.1	4663.5	4628.5	3508.9
65°	369.2	372.9	387.9	461.2	711.8	1658.9	2789.5	4374.7	5295.2	5232.8	3750.7
67.5°	320.8	324.5	339.2	349.2	317.9	871.5	2298.3	4691.2	6097.3	6015.6	4077.9
70°	270.2	272.1	295.8	302.5	227.4	331.5	1476.5	4593.4	6839.7	6781.3	4429.0
72.5°	201.4	209.4	243.8	259.8	182.4	176.1	695.1	4016.2	6965.4	6966.1	4405.3
75°	136.7	144.1	183.5	213.8	140.7	123.4	280.4	2998.9	6065.2	6065.2	3861.8
77.5°	93.4	99.4	127.7	167.8	106.7	84.7	145.4	1903.3	4351.3	4504.5	2752.4
80°	41.3	45.0	82.4	121.8	81.1	54.7	82.4	1042.2	2631.4	2599.1	1078.9
82.5°	20.3	23.4	52.7	76.1	52.4	33.7	43.4	495.6	852.8	810.5	168.4
85°	4.0	5.3	28.4	32.4	24.4	15.0	16.3	152.4	102.7	117.4	35.7
87.5°	0.0	0.0	8.7	6.0	2.7	3.4	3.4	13.6	8.0	9.3	9.3
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°	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5	888.5
2.5°	891.4	879.1	852.1	825.4	798.1	773.1	755.7	738.4	727.7	723.0	723.8
5°	898.5	873.5	816.8	757.4	698.7	641.3	598.3	558.0	545.3	524.3	525.6
7.5°	909.5	868.8	779.4	679.4	583.9	499.9	439.2	390.8	371.6	352.9	352.5
10°	916.9	860.2	730.1	596.3	467.3	372.9	314.9	279.8	267.1	255.8	255.4
12.5°	919.8	844.1	673.3	503.3	363.6	284.1	249.5	233.1	228.8	224.8	224.8
15°	922.5	828.4	610.0	413.6	287.2	237.8	224.2	218.7	215.8	213.1	213.1
17.5°	924.9	808.4	537.6	336.2	242.5	219.1	212.5	206.7	204.5	201.4	201.4
20°	932.9	789.0	472.9	277.5	218.1	205.8	198.4	192.4	190.4	188.4	188.8
22.5°	947.8	773.5	410.2	237.8	203.5	192.1	182.8	176.1	174.8	173.4	172.4
25°	965.9	754.1	351.2	212.1	189.1	176.4	166.0	160.4	159.1	159.4	158.8
27.5°	988.8	732.8	300.5	195.8	176.4	161.7	150.1	145.8	146.4	147.7	147.1
30°	1014.2	713.1	260.8	184.4	165.1	148.7	137.0	134.1	136.4	138.4	137.8
32.5°	1051.9	695.7	233.1	175.4	155.1	138.1	128.7	125.0	127.7	130.4	129.8
35°	1103.3	687.1	217.4	167.8	146.4	129.8	120.4	117.8	120.4	121.1	120.7
37.5°	1166.2	686.3	210.7	161.4	138.4	122.7	112.4	111.4	113.4	113.8	113.1
40°	1247.6	690.7	205.8	156.7	130.1	114.7	105.1	104.0	104.8	107.0	106.7
42.5°	1350.7	708.7	198.7	150.8	121.1	106.7	99.0	96.8	96.4	99.0	98.7
45°	1480.1	748.4	189.4	141.0	113.1	100.0	92.4	89.7	88.8	89.4	90.4
47.5°	1621.2	797.1	180.1	132.0	107.4	94.7	87.0	83.7	82.0	82.0	82.0
50°	1758.0	852.1	173.7	122.7	103.4	89.7	81.4	78.0	75.3	74.7	74.4
52.5°	1893.4	906.2	168.7	113.4	98.7	83.3	76.1	72.4	69.4	68.1	67.3
55°	2016.8	957.6	160.1	104.3	92.8	76.7	70.7	67.0	63.3	61.0	60.1
57.5°	2135.2	1000.2	144.1	95.0	83.3	70.4	65.0	61.0	56.7	53.7	52.4
60°	2242.9	1022.2	124.0	85.1	74.0	63.7	58.7	55.0	49.4	44.4	43.0
62.5°	2324.9	1013.5	102.4	73.7	64.4	57.7	51.4	47.7	41.0	35.1	32.7
65°	2409.0	966.2	81.7	61.7	56.4	49.7	43.0	39.4	31.7	25.3	23.7
67.5°	2518.0	865.1	64.4	51.4	48.7	39.4	33.7	31.4	26.0	20.0	18.7
70°	2588.0	672.0	50.0	41.7	40.0	28.7	26.0	25.7	20.7	15.4	13.6
72.5°	2395.9	440.5	38.3	31.7	28.7	18.7	20.0	20.0	15.0	10.4	9.0
75°	2000.1	257.8	27.7	22.7	16.3	12.0	13.6	13.6	9.3	5.0	4.0
77.5°	1428.4	137.5	18.3	14.0	8.3	5.3	7.4	7.0	3.0	0.3	0.0
80°	546.3	47.4	8.7	5.6	2.4	1.0	0.7	0.3	0.3	0.0	0.0
82.5°	83.3	12.3	1.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.0	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)