

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: P960797

Luminaire Tested: **NAV-SB1D-722-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1D-722-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

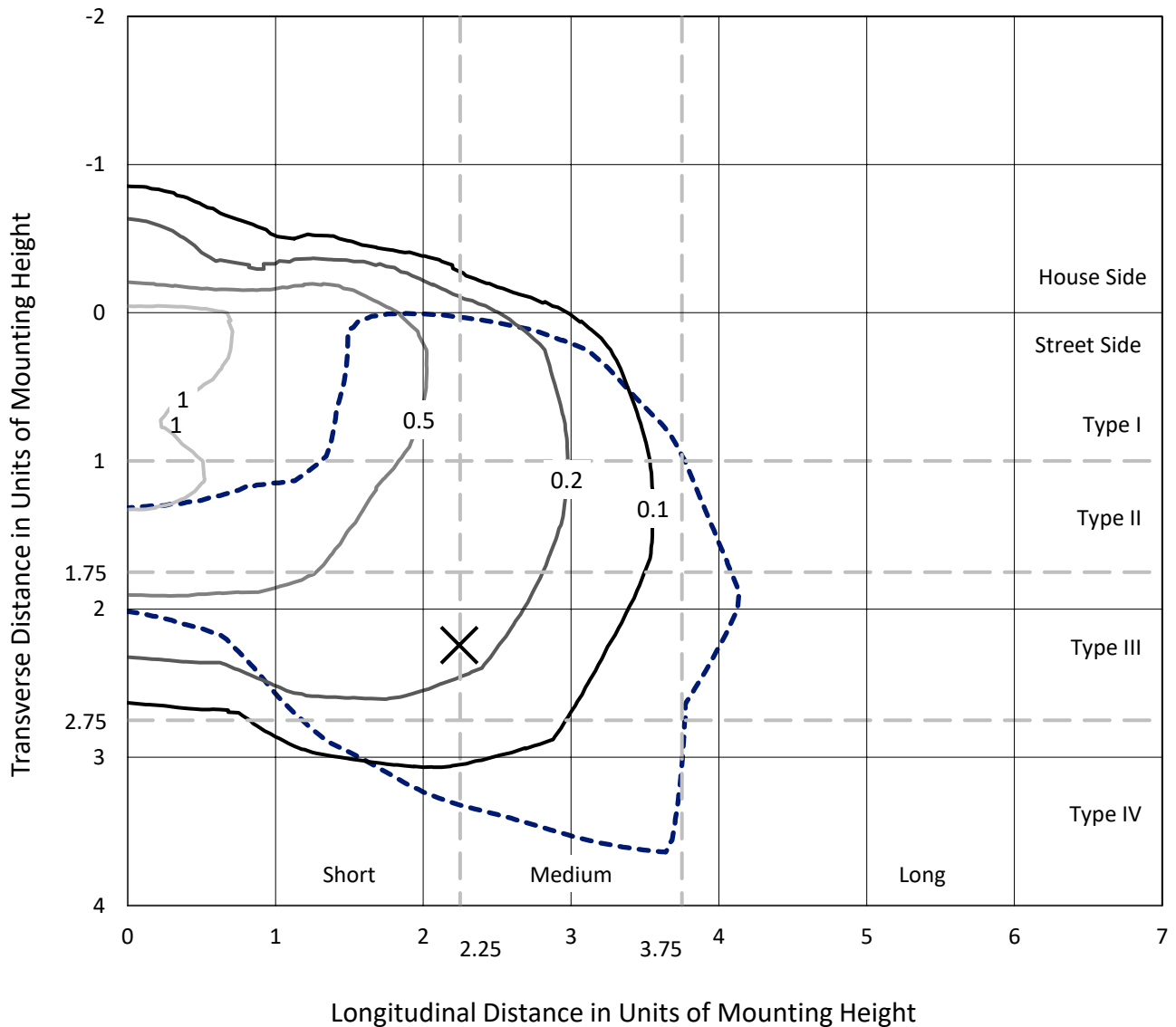
Lumens per Lamp: N/A  
Luminaire Lumens: 6638.9 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

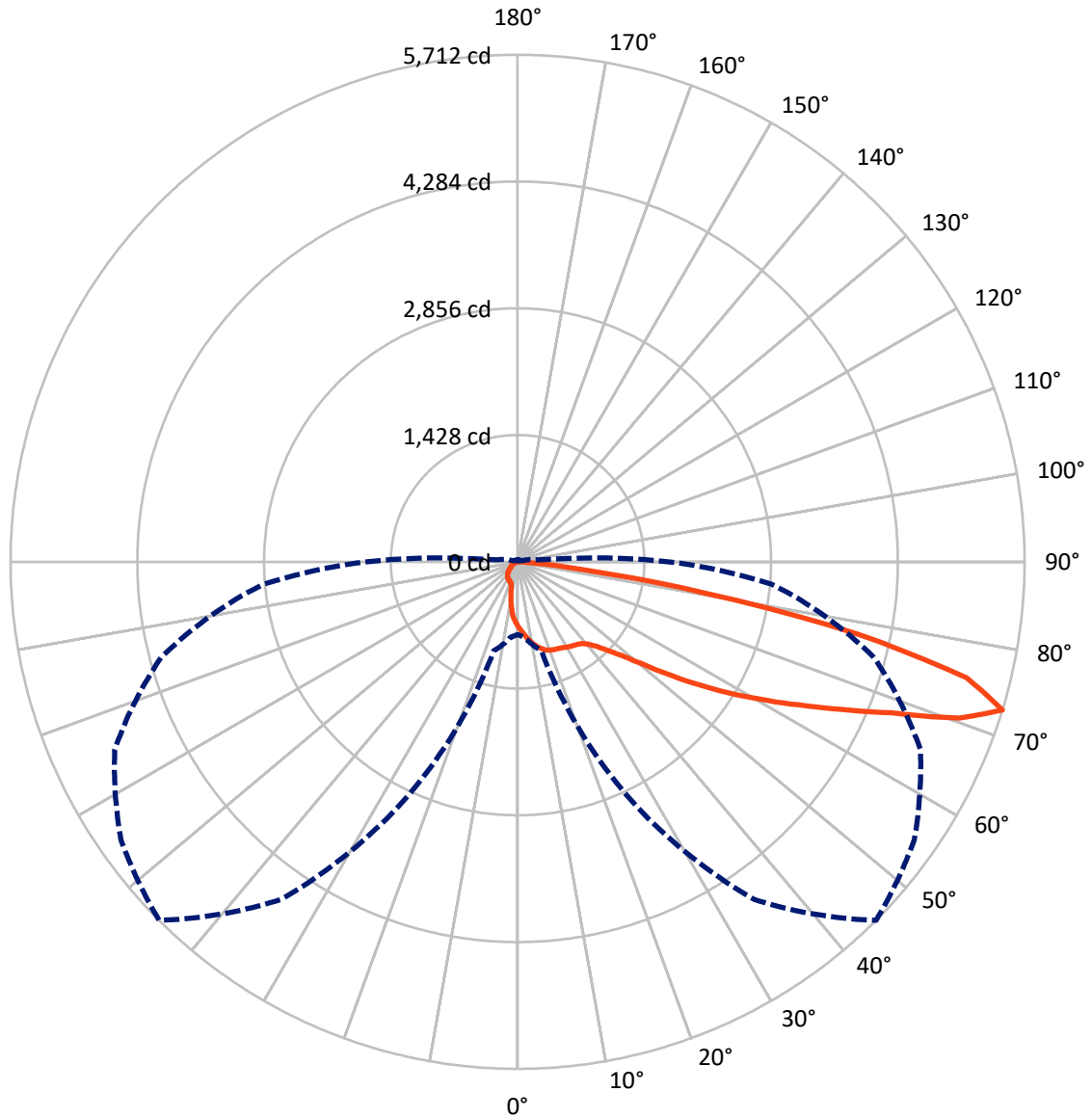
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	697.6	0.0	697.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5941.3	0.0	5941.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6638.9	0.0	6638.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	1.0
10°-20°	200.3	3.0
20°-30°	328.9	5.0
30°-40°	466.4	7.0
40°-50°	771.0	11.6
50°-60°	1385.0	20.9
60°-70°	1923.1	29.0
70°-80°	1394.9	21.0
80°-90°	100.8	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°	6638.9	100.0
0°-180°	6638.9	100.0

**Coefficient of Utilization**

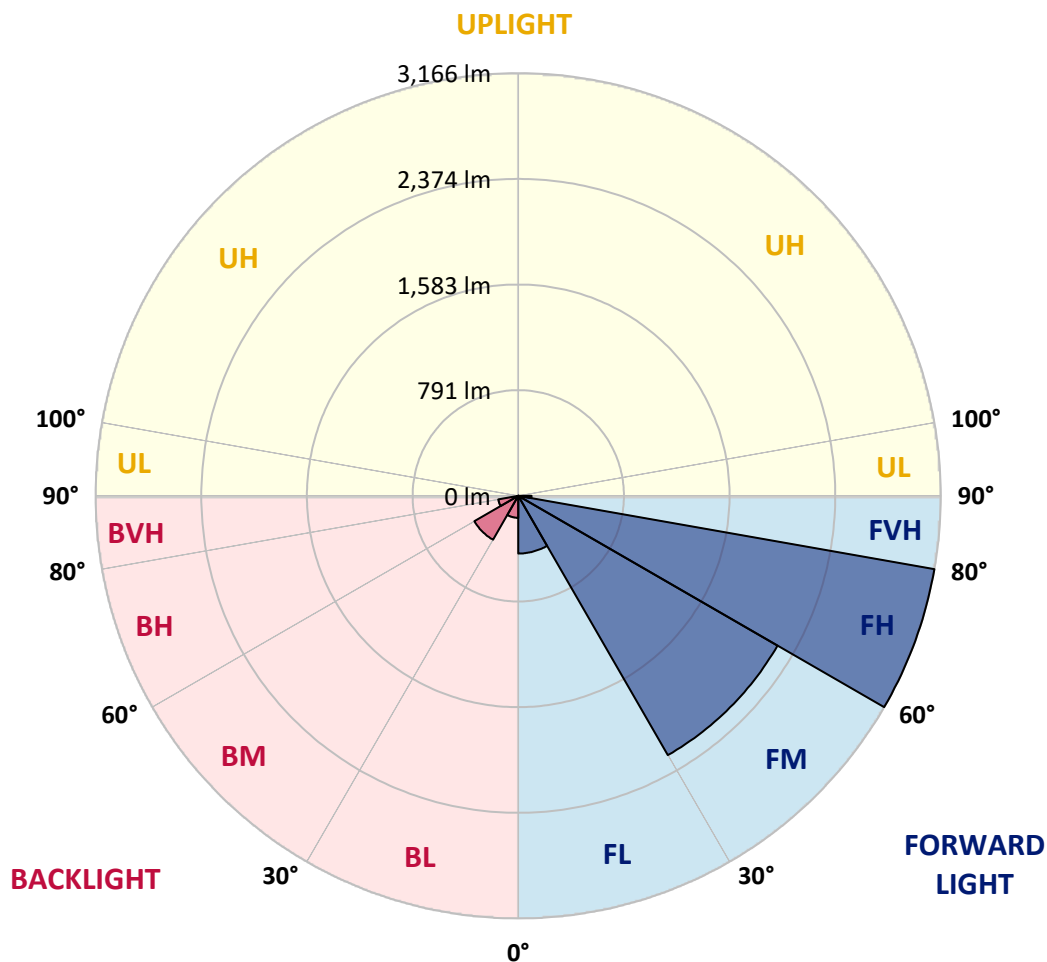


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.5	6.5			
FM (30°-60°)	2243.0	33.8			
FH (60°-80°)	3165.9	47.7			G2/5000
FVH (80°-90°)	100.0	1.5			G1/100
BL (0°-30°)	165.2	2.5	B1/500		
BM (30°-60°)	379.4	5.7	B1/1000		
BH (60°-80°)	152.1	2.3	B1/500		G1/500
BVH (80°-90°)	0.8	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°	35°	45°	46°	55°	65°	75°	85°
0°	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3
2.5°	794.4	795.7	794.8	789.4	780.3	775.3	772.6	763.5	757.7	747.2	736.4
5°	867.4	872.8	869.6	858.7	841.5	829.2	825.6	807.1	790.3	770.8	748.1
7.5°	944.8	947.5	941.7	927.6	904.5	883.7	880.5	854.6	827.9	798.0	767.2
10°	1011.9	1015.1	1006.0	985.6	959.3	933.5	929.0	900.5	868.7	832.0	792.5
12.5°	1068.0	1071.2	1059.4	1035.0	1006.0	979.3	974.8	944.8	909.9	869.1	820.2
15°	1110.7	1116.5	1100.7	1074.4	1043.1	1016.4	1014.1	984.7	950.7	905.4	853.3
17.5°	1135.6	1141.4	1126.6	1094.8	1068.0	1045.4	1042.7	1018.2	986.5	943.0	885.5
20°	1139.7	1145.1	1129.2	1101.6	1079.4	1061.3	1060.0	1042.2	1019.2	977.4	920.3
22.5°	1127.4	1134.3	1119.7	1097.6	1082.1	1072.6	1070.8	1060.9	1047.7	1012.3	952.9
25°	1114.8	1120.2	1109.4	1089.8	1081.7	1080.8	1082.1	1080.4	1077.6	1047.7	991.1
27.5°	1113.9	1119.7	1107.5	1089.0	1084.3	1093.9	1095.3	1103.9	1106.2	1079.8	1027.8
30°	1121.6	1125.7	1113.9	1094.4	1092.1	1113.9	1114.3	1129.8	1133.3	1107.0	1063.9
32.5°	1138.4	1142.9	1131.1	1102.5	1099.3	1129.8	1131.1	1151.5	1157.3	1136.0	1102.1
35°	1177.7	1183.2	1169.6	1125.1	1113.9	1144.6	1148.7	1172.8	1184.5	1166.9	1141.4
37.5°	1276.1	1260.2	1241.7	1171.0	1147.0	1168.2	1175.1	1203.1	1224.0	1203.6	1188.6
40°	1520.3	1470.5	1412.4	1248.9	1204.9	1218.5	1224.0	1252.0	1280.6	1260.6	1253.4
42.5°	1886.9	1828.0	1734.7	1428.3	1292.4	1299.2	1303.3	1327.8	1368.1	1352.2	1354.0
45°	2213.7	2192.4	2097.1	1734.7	1456.0	1422.4	1427.4	1440.1	1499.5	1493.6	1505.4
47.5°	2464.7	2452.4	2379.0	2086.3	1732.4	1573.4	1587.4	1593.3	1679.0	1699.8	1731.5
50°	2657.7	2653.2	2587.5	2399.0	2093.6	1795.8	1800.8	1788.1	1916.3	1968.0	2028.3
52.5°	2839.9	2855.3	2806.9	2689.5	2479.2	2087.2	2086.3	2026.5	2199.5	2277.5	2380.4
55°	3004.4	3009.8	3014.8	2985.8	2867.1	2418.9	2410.3	2312.4	2528.2	2608.8	2720.2
57.5°	3158.9	3161.2	3205.6	3264.9	3270.9	2775.1	2759.2	2641.8	2887.0	2944.6	3013.0
60°	3262.7	3273.1	3366.9	3531.8	3603.9	3142.6	3134.0	3014.3	3252.2	3279.0	3266.4
62.5°	3113.1	3176.6	3413.1	3740.3	3918.4	3550.0	3545.9	3433.5	3636.5	3614.8	3506.0
65°	2520.0	2627.4	3043.3	3881.3	4227.0	4005.0	4010.8	3891.2	4031.2	3960.5	3700.9
67.5°	1762.8	1876.1	2368.2	3892.5	4571.8	4539.2	4573.2	4385.6	4450.4	4291.8	3747.1
70°	1218.9	1277.5	1597.8	3648.8	4840.6	5275.2	5274.2	4992.8	4867.3	4442.7	3511.4
72.5°	819.8	850.1	1037.7	2894.7	4642.9	5712.4	5686.2	5456.9	5007.7	4154.9	2868.9
75°	345.7	368.0	480.3	1626.8	3673.3	5226.2	5155.0	4822.4	4449.5	3271.8	1790.0
77.5°	109.7	119.2	189.4	582.3	2023.4	3928.4	3853.2	3011.7	2982.2	1641.3	654.4
80°	52.1	60.7	106.5	233.8	796.2	2136.6	2126.2	1366.2	1282.9	443.2	131.4
82.5°	22.7	26.8	58.9	125.0	356.2	762.2	777.6	464.9	384.7	168.1	40.3
85°	7.3	9.5	27.2	57.5	150.5	189.4	187.2	110.6	155.0	91.5	14.0
87.5°	0.0	0.0	9.0	13.1	15.4	10.9	12.2	9.5	43.0	25.4	5.0
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°	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3
2.5°	730.9	723.6	711.0	699.3	688.8	678.3	672.0	663.0	662.0	662.0	664.3
5°	735.9	724.2	701.5	677.4	649.8	623.5	597.3	571.8	563.8	557.8	560.6
7.5°	750.4	731.8	696.1	650.3	597.7	540.2	499.8	456.3	439.5	430.5	431.8
10°	771.3	745.9	691.5	611.3	526.1	447.7	390.1	343.1	324.9	317.2	317.2
12.5°	794.4	763.1	683.4	562.8	447.7	353.9	297.8	275.9	273.3	273.3	273.3
15°	822.0	783.9	669.3	505.7	365.7	280.0	260.1	261.0	263.7	265.6	265.6
17.5°	850.5	806.2	647.1	441.8	293.2	251.9	252.4	253.8	256.0	257.9	257.9
20°	881.4	828.4	617.7	373.8	251.5	243.7	245.2	246.5	248.4	249.3	249.7
22.5°	914.5	849.2	582.7	307.2	237.5	237.0	237.5	238.8	241.1	241.1	242.0
25°	949.8	872.3	542.8	258.7	230.2	230.2	231.1	232.1	233.8	233.8	234.3
27.5°	986.0	893.6	500.7	233.4	223.9	223.4	223.4	224.8	225.7	226.1	226.5
30°	1025.9	918.5	458.6	228.0	218.8	216.6	215.2	216.2	217.1	217.5	218.4
32.5°	1066.7	942.6	421.0	230.2	213.9	209.8	205.3	204.4	204.4	206.2	207.6
35°	1112.0	968.8	392.0	237.9	211.2	199.9	192.6	188.5	189.0	191.7	193.0
37.5°	1166.4	1000.6	370.6	244.7	209.3	188.5	176.7	171.8	168.6	171.8	170.9
40°	1237.6	1047.2	355.3	250.1	207.0	175.4	159.5	151.4	145.4	147.3	146.4
42.5°	1342.2	1120.6	349.4	250.6	202.1	160.0	141.9	131.0	122.4	122.8	121.0
45°	1489.0	1236.7	379.8	244.7	191.3	143.2	123.3	108.8	103.3	102.0	100.1
47.5°	1690.2	1405.7	450.0	232.5	175.4	126.9	105.2	92.9	88.9	86.5	85.2
50°	1959.9	1622.8	527.9	218.8	159.5	111.5	90.2	82.5	79.7	77.5	77.1
52.5°	2272.5	1843.0	591.8	205.3	143.6	97.9	80.7	76.2	73.9	72.1	71.6
55°	2559.4	1994.8	588.1	190.8	128.2	87.0	73.9	71.1	68.5	66.6	65.7
57.5°	2738.0	2016.1	484.8	175.0	110.6	78.4	67.5	65.7	62.5	60.3	59.9
60°	2820.0	1894.6	339.9	154.1	92.9	70.2	60.7	59.9	55.8	52.6	51.7
62.5°	2834.9	1669.0	226.5	128.2	77.5	62.5	53.9	52.6	47.2	41.7	38.9
65°	2774.2	1346.3	156.8	100.1	66.1	54.4	46.2	43.5	37.6	32.2	30.3
67.5°	2582.1	945.3	109.2	72.1	56.2	43.0	36.7	35.8	31.3	26.8	25.4
70°	2230.0	538.8	73.0	53.9	44.4	29.4	29.0	29.9	25.4	21.7	20.0
72.5°	1709.7	246.5	45.3	39.5	30.3	20.0	23.1	23.6	19.5	16.3	14.5
75°	1006.4	105.6	28.6	25.4	15.4	13.1	16.8	17.2	13.1	10.5	9.0
77.5°	342.6	39.9	18.1	15.0	7.7	7.3	10.9	10.9	7.3	4.1	3.2
80°	77.9	15.0	9.0	5.8	3.6	3.2	3.6	3.2	1.8	0.4	0.0
82.5°	22.2	5.8	3.6	2.3	1.3	1.3	0.4	0.0	0.0	0.0	0.0
85°	6.4	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.4	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)