

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: P959732

Luminaire Tested: **NAV-SB1B-722-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-722-U-T2R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4038.5 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

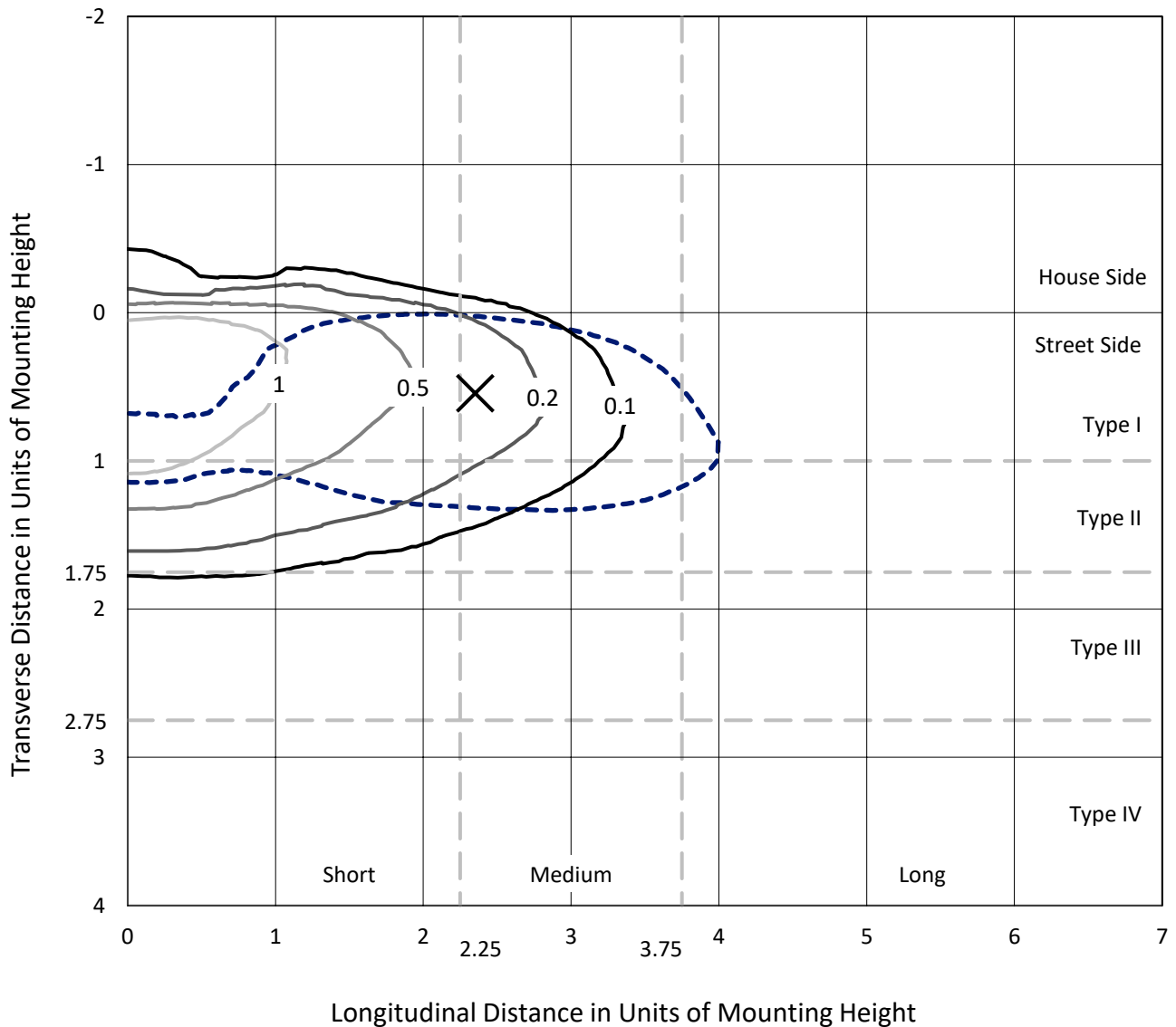
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

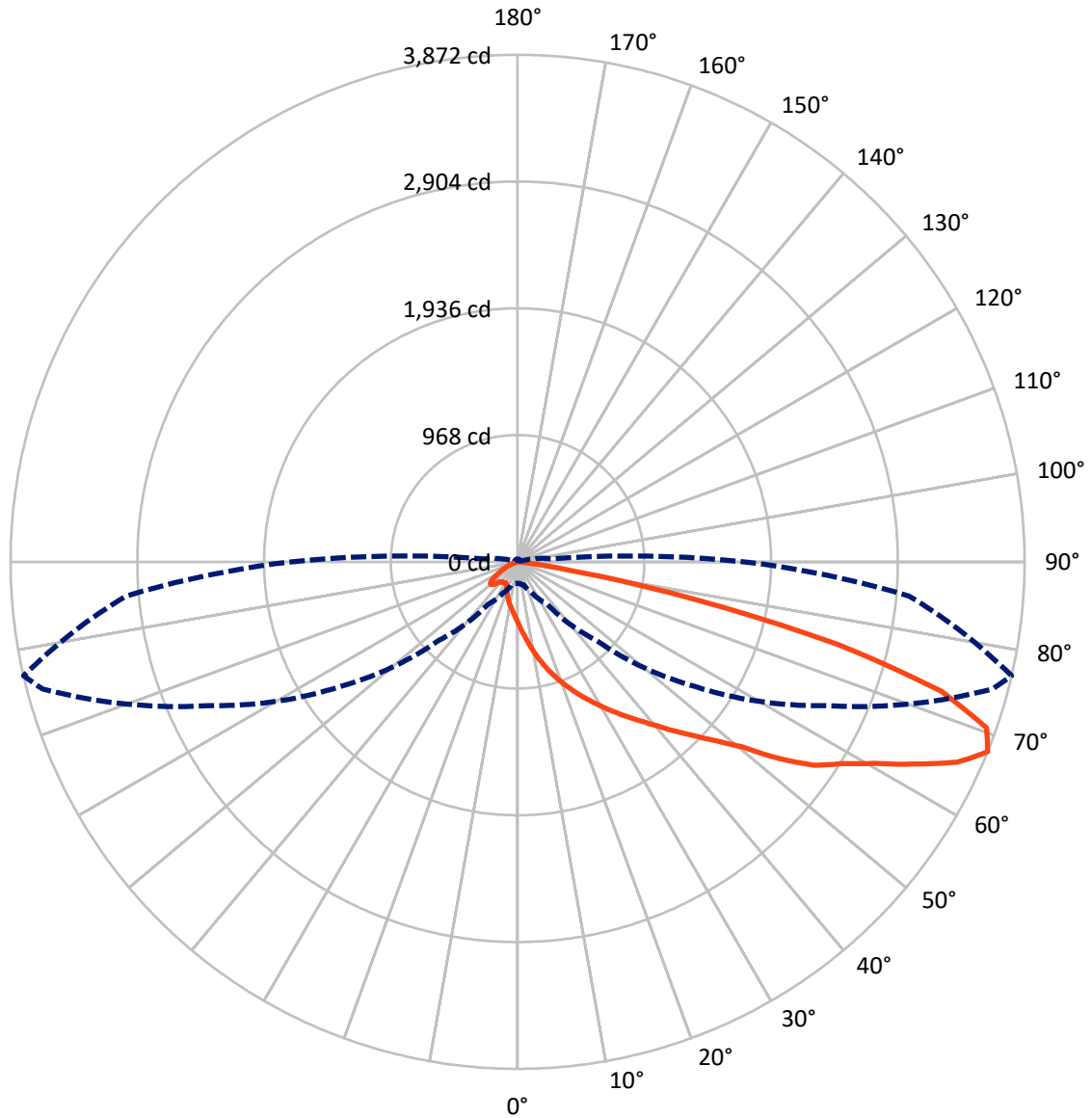
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	297.1	0.0	297.1
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	3741.4	0.0	3741.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	4038.5	0.0	4038.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.5	1.2
10°-20°	166.5	4.1
20°-30°	321.2	8.0
30°-40°	557.6	13.8
40°-50°	809.7	20.0
50°-60°	929.8	23.0
60°-70°	807.2	20.0
70°-80°	380.2	9.4
80°-90°	18.8	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°	4038.5	100.0
0°-180°	4038.5	100.0

**Coefficient of Utilization**



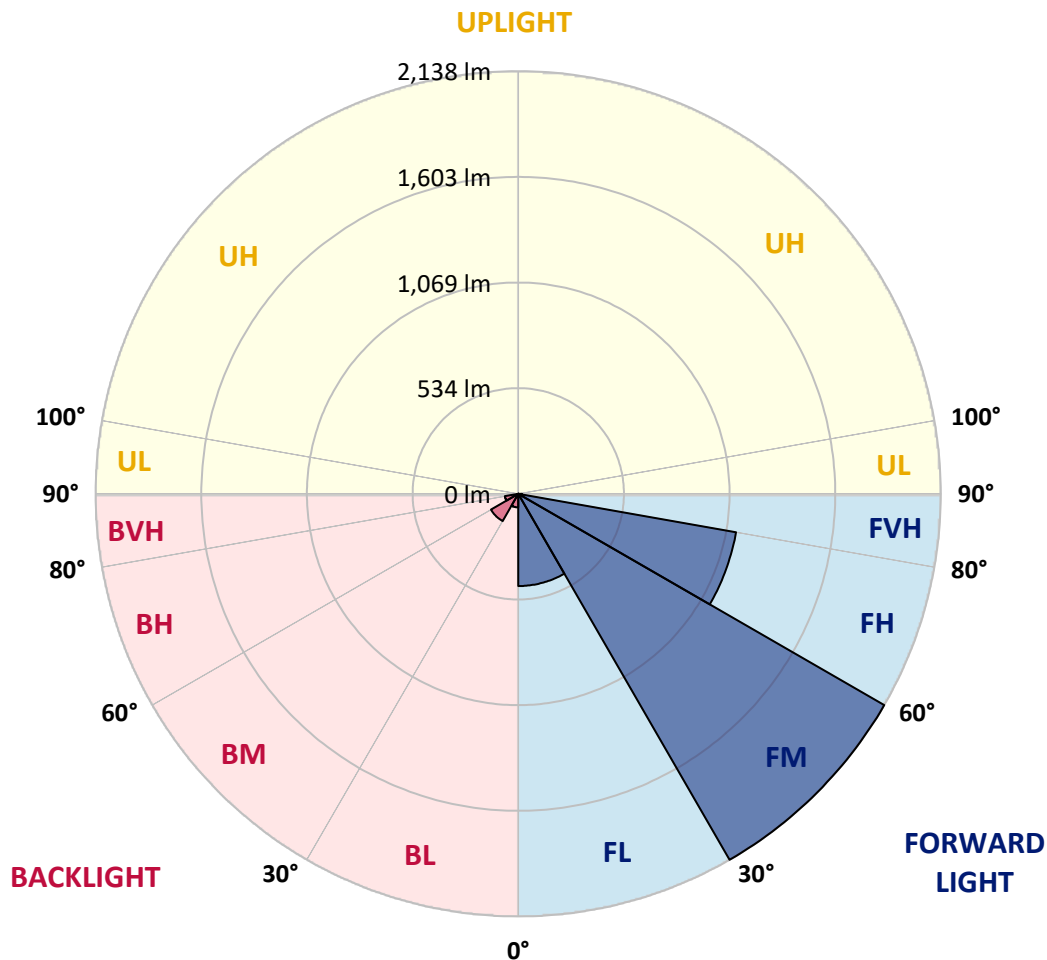
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 CATALOG NUMBER: NAV-SB1B-722-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.4	11.5			
FM (30°-60°)	2137.9	52.9			
FH (60°-80°)	1118.6	27.7			G1/1800
FVH (80°-90°)	18.5	0.5			G1/100
BL (0°-30°)	68.8	1.7	B0/110		
BM (30°-60°)	159.2	3.9	B0/220		
BH (60°-80°)	68.8	1.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium



REPORT NUMBER: P959732  
 CATALOG NUMBER: NAV-SB1B-722-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	644.7	648.7	643.0	632.0	615.4	604.6	578.3	553.5	525.9	517.1	489.5
5°	786.0	789.5	782.9	770.9	748.9	727.7	693.1	641.2	587.3	570.0	521.1
7.5°	890.5	892.6	890.0	878.9	857.9	834.1	795.5	734.0	654.1	635.0	560.0
10°	965.8	972.3	971.5	967.3	953.2	933.9	892.8	822.8	728.8	704.2	603.8
12.5°	1015.7	1023.0	1027.2	1036.7	1036.0	1023.7	987.6	913.6	803.3	774.4	653.2
15°	1030.2	1038.0	1054.3	1076.4	1095.9	1102.2	1076.9	1002.7	885.3	848.4	704.0
17.5°	1021.9	1033.9	1053.5	1088.3	1131.3	1159.6	1156.8	1088.7	959.7	917.6	753.6
20°	1040.3	1051.8	1067.0	1096.4	1146.4	1197.7	1218.3	1170.9	1033.7	989.5	805.8
22.5°	1141.5	1139.6	1141.0	1145.8	1175.7	1226.5	1268.9	1245.6	1106.9	1061.8	860.9
25°	1302.1	1293.0	1277.8	1251.9	1244.4	1268.9	1313.1	1311.8	1184.2	1135.8	917.4
27.5°	1486.1	1484.6	1448.7	1386.5	1351.5	1341.9	1362.9	1376.3	1260.6	1209.0	974.1
30°	1662.4	1666.4	1618.1	1548.8	1484.4	1447.0	1427.9	1437.5	1338.4	1288.0	1032.5
32.5°	1815.9	1820.2	1767.5	1686.5	1606.8	1561.6	1521.5	1497.9	1423.2	1368.3	1096.6
35°	1945.6	1949.9	1889.4	1799.8	1714.8	1673.9	1628.5	1564.1	1508.5	1457.2	1168.1
37.5°	2061.4	2060.1	1979.2	1888.9	1805.3	1773.0	1749.2	1645.6	1596.2	1546.8	1247.4
40°	2129.8	2135.2	2065.9	1966.4	1885.4	1861.8	1860.3	1746.7	1697.5	1649.6	1334.1
42.5°	2149.9	2159.3	2109.0	2027.3	1953.9	1928.2	1967.6	1856.1	1815.4	1768.7	1432.2
45°	2113.9	2122.9	2100.0	2043.3	2000.5	1983.9	2059.9	1969.3	1941.2	1895.1	1542.8
47.5°	2008.5	2019.8	2025.3	2013.3	2012.8	2029.6	2142.7	2088.7	2090.8	2043.6	1671.0
50°	1804.6	1823.7	1874.3	1917.0	1983.0	2065.7	2223.1	2218.1	2259.3	2218.6	1837.9
52.5°	1434.0	1461.0	1635.6	1752.2	1900.5	2058.9	2311.7	2425.8	2554.9	2495.5	2073.5
55°	1152.3	1152.3	1294.3	1512.5	1739.4	2014.2	2350.3	2560.8	2756.3	2742.3	2239.2
57.5°	939.4	950.7	1041.2	1234.1	1506.4	1907.9	2374.1	2645.5	2918.6	2908.3	2401.3
60°	579.8	604.1	775.2	965.6	1241.4	1718.6	2359.0	2731.2	3115.5	3123.7	2596.3
62.5°	326.6	335.6	411.7	694.6	965.2	1464.0	2243.9	2779.2	3367.2	3402.3	2797.4
65°	225.5	230.0	259.3	432.3	669.1	1165.6	2019.0	2749.3	3619.5	3690.5	2968.0
67.5°	163.8	166.0	184.3	264.0	397.0	845.1	1666.4	2598.8	3753.1	3871.8	3000.6
70°	125.9	127.4	140.7	173.5	234.5	521.6	1210.2	2299.7	3656.4	3798.0	2833.6
72.5°	102.3	103.8	114.1	128.4	155.5	308.4	733.5	1867.5	3229.1	3382.0	2412.2
75°	86.3	88.3	97.6	106.8	121.9	198.1	344.1	1300.5	2428.3	2528.6	1677.5
77.5°	47.9	44.2	79.2	88.6	102.8	125.4	161.0	765.4	1360.0	1387.8	744.4
80°	29.8	30.9	62.9	71.2	79.0	63.2	73.7	294.7	471.5	447.9	144.2
82.5°	1.7	4.0	48.4	51.5	54.1	27.1	27.9	100.0	113.6	104.3	25.6
85°	0.0	0.0	22.0	17.8	18.8	7.8	8.0	23.4	15.3	16.5	5.0
87.5°	0.0	0.0	0.0	0.5	0.0	0.7	1.5	2.0	0.7	1.0	1.7
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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 CATALOG NUMBER: NAV-SB1B-722-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	472.0	454.4	418.8	384.0	355.6	329.2	310.5	292.6	283.6	283.1	282.6
5°	486.3	449.4	378.2	315.2	264.6	224.0	197.6	178.8	169.2	166.0	165.5
7.5°	506.4	450.9	342.6	255.0	195.4	160.5	145.4	139.4	137.5	135.2	134.7
10°	531.7	454.4	310.7	205.4	154.0	136.4	130.4	127.9	126.4	124.8	124.4
12.5°	560.0	457.7	279.1	170.6	135.4	126.4	122.2	119.1	117.2	115.3	114.9
15°	587.5	459.7	246.3	146.2	125.9	118.6	114.1	110.8	108.0	106.1	105.8
17.5°	614.9	462.5	215.5	131.6	118.1	110.8	106.3	102.3	100.0	97.8	97.6
20°	645.2	462.0	186.3	121.4	110.4	103.1	98.3	94.5	92.2	89.8	89.5
22.5°	673.3	459.4	160.7	112.6	102.3	95.3	90.0	86.3	84.0	82.0	81.8
25°	705.7	457.5	139.4	104.6	94.8	87.7	82.0	78.5	76.0	74.2	74.0
27.5°	736.8	454.4	123.9	97.3	87.5	80.8	75.2	71.2	69.0	67.8	67.8
30°	767.4	453.7	118.1	90.3	81.0	74.2	68.7	65.0	63.2	62.7	62.4
32.5°	804.2	455.7	120.6	87.7	75.0	68.2	62.9	60.2	58.4	58.4	58.4
35°	843.6	455.2	124.4	90.0	70.9	62.2	58.2	56.4	54.6	54.6	54.6
37.5°	893.0	455.9	127.4	93.8	69.5	57.2	54.9	52.7	51.7	51.7	51.7
40°	966.8	480.7	125.9	97.1	69.0	53.7	49.2	48.4	47.7	47.7	47.7
42.5°	1057.1	534.6	127.9	97.3	68.7	51.1	45.1	46.6	44.9	44.7	44.4
45°	1155.9	593.6	140.7	92.0	68.5	49.9	43.2	44.9	42.1	42.1	42.1
47.5°	1253.9	652.0	153.8	84.6	67.8	49.6	41.4	40.4	39.7	39.9	39.9
50°	1389.1	699.7	158.8	74.2	65.9	49.2	38.1	38.3	37.8	38.3	38.3
52.5°	1536.3	709.7	152.7	62.7	61.0	47.7	35.9	36.9	36.6	37.1	37.1
55°	1628.1	698.9	126.2	52.2	53.2	41.6	33.6	35.6	35.6	35.6	35.6
57.5°	1722.8	653.0	89.5	42.3	44.2	34.1	31.6	34.3	34.1	33.8	33.8
60°	1791.1	578.8	58.9	34.8	35.2	28.1	29.3	32.4	32.1	30.9	30.9
62.5°	1842.0	496.8	37.8	29.6	26.9	25.3	26.9	29.3	28.3	25.6	25.1
65°	1836.2	383.1	29.1	25.3	22.0	22.0	23.4	25.6	22.5	18.0	17.5
67.5°	1729.2	259.3	24.1	21.3	18.6	18.3	19.3	21.3	19.3	15.3	14.8
70°	1537.8	169.5	19.3	16.5	14.8	13.5	15.6	18.3	16.3	12.3	11.8
72.5°	1248.1	103.3	14.6	12.0	10.8	8.8	12.3	15.1	13.0	9.0	8.5
75°	807.5	52.7	10.0	7.8	5.7	5.2	9.0	11.3	9.0	5.5	4.7
77.5°	308.9	22.0	5.5	3.5	3.0	2.5	5.0	6.8	3.8	1.2	1.0
80°	59.4	9.3	2.8	1.7	1.5	1.0	0.7	0.5	0.0	0.0	0.0
82.5°	10.2	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	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)