

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: P959733

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
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  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4858.5 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

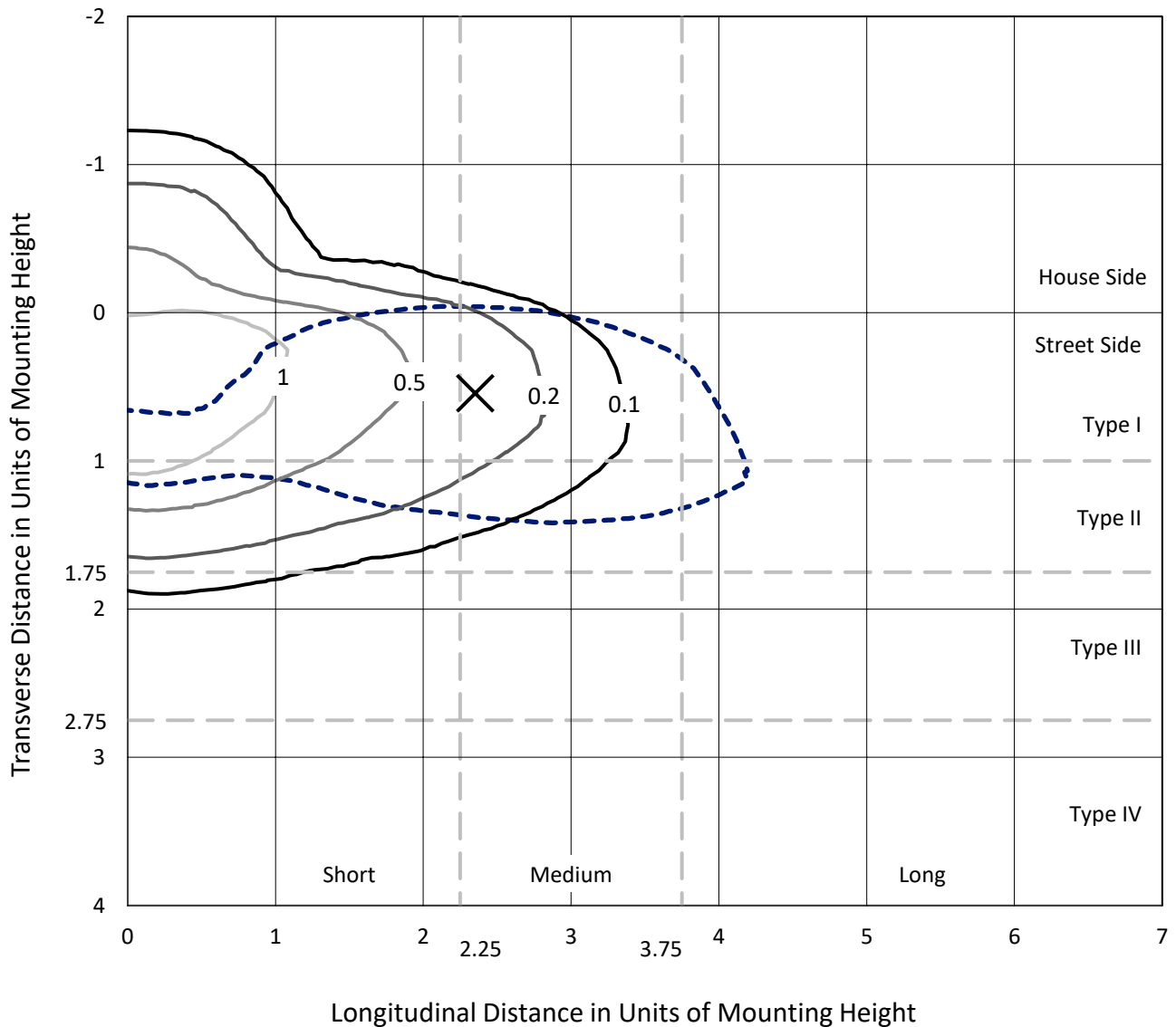
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

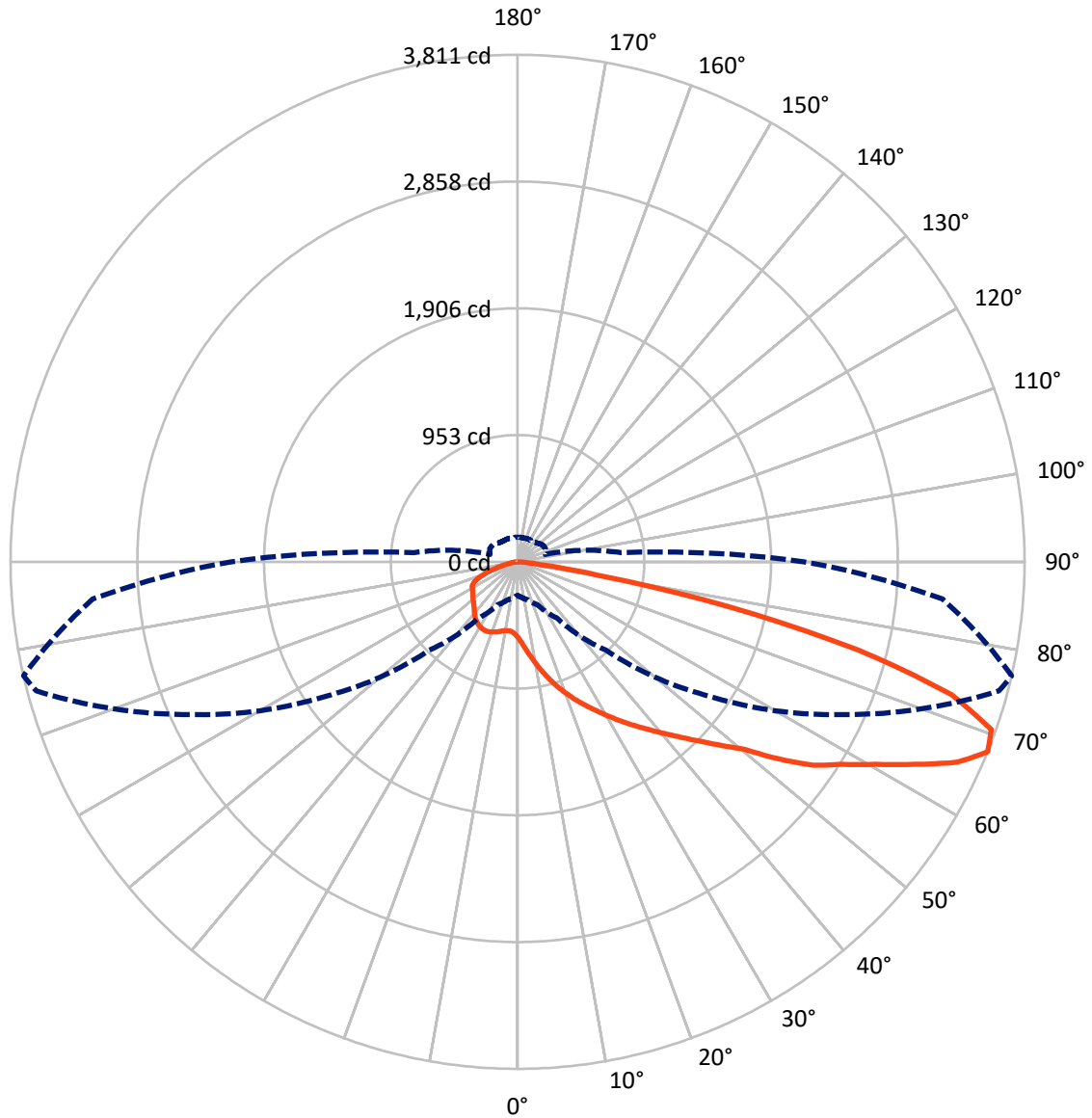
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	919.0	0.0	919.0
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	3939.5	0.0	3939.5
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	4858.5	0.0	4858.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	1.3
10°-20°	219.5	4.5
20°-30°	414.5	8.5
30°-40°	667.7	13.7
40°-50°	913.3	18.8
50°-60°	1030.2	21.2
60°-70°	961.6	19.8
70°-80°	527.1	10.8
80°-90°	63.6	1.3
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°	4858.5	100.0
0°-180°	4858.5	100.0

**Coefficient of Utilization**

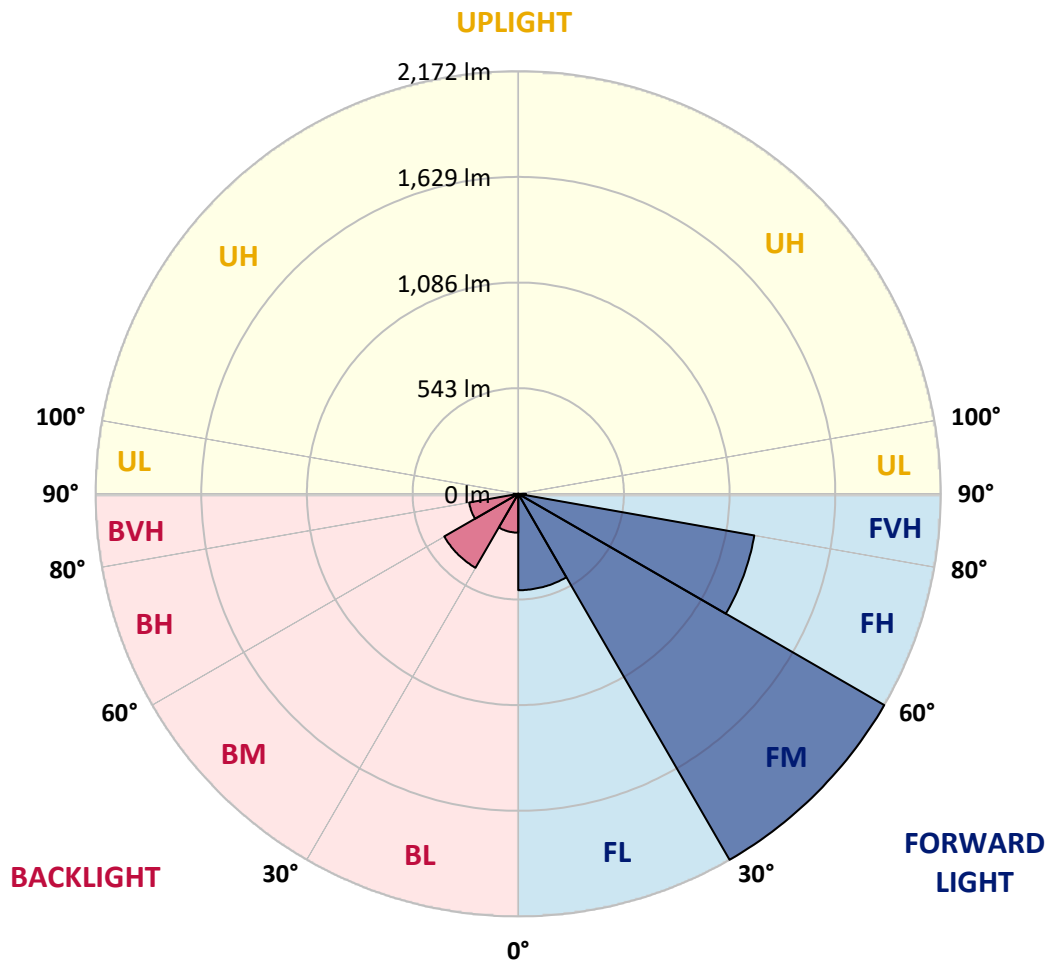


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.3	10.2			
FM (30°-60°)	2172.2	44.7			
FH (60°-80°)	1232.3	25.4			G1/1800
FVH (80°-90°)	39.8	0.8			G1/100
BL (0°-30°)	199.8	4.1	B1/500		
BM (30°-60°)	439.0	9.0	B1/1000		
BH (60°-80°)	256.4	5.3	B1/500		G1/500
BVH (80°-90°)	23.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
2.5°	713.7	718.7	712.5	712.5	691.5	680.4	659.4	643.3	614.5	609.5	590.4
5°	843.7	849.9	841.1	837.4	812.6	789.8	754.4	719.6	668.1	662.9	618.0
7.5°	944.2	952.2	944.5	940.4	918.4	892.8	851.5	802.8	730.3	720.1	655.1
10°	1026.2	1027.5	1025.0	1026.5	1009.2	988.1	945.8	889.1	798.5	784.4	700.0
12.5°	1072.7	1078.4	1083.4	1092.4	1089.5	1076.5	1038.3	970.6	870.7	852.7	748.9
15°	1094.5	1104.5	1115.8	1136.6	1153.4	1156.6	1127.6	1058.1	944.2	922.4	798.3
17.5°	1102.3	1111.8	1129.6	1159.7	1195.8	1220.2	1207.0	1143.1	1017.0	991.9	850.2
20°	1141.6	1144.4	1155.2	1183.8	1222.8	1263.2	1273.0	1224.9	1089.0	1060.6	903.8
22.5°	1225.9	1220.4	1223.3	1236.5	1264.5	1303.6	1325.9	1297.1	1163.0	1130.4	958.1
25°	1365.1	1349.0	1333.0	1317.9	1332.2	1354.3	1379.6	1369.3	1240.5	1199.0	1012.7
27.5°	1540.9	1521.3	1485.9	1436.5	1419.2	1427.0	1438.3	1436.3	1312.1	1270.3	1069.2
30°	1713.9	1691.1	1648.9	1577.5	1531.9	1511.3	1502.8	1497.0	1390.1	1345.5	1126.1
32.5°	1852.1	1834.0	1792.6	1712.7	1646.5	1611.3	1583.0	1562.4	1471.7	1427.0	1186.2
35°	1973.0	1956.2	1908.8	1821.5	1749.6	1712.2	1675.1	1631.2	1556.5	1511.3	1250.9
37.5°	2083.3	2066.5	2001.6	1910.8	1838.3	1812.5	1779.4	1704.9	1641.4	1598.8	1319.4
40°	2153.0	2149.3	2088.6	1985.7	1910.5	1897.8	1886.7	1790.4	1735.7	1696.1	1394.6
42.5°	2170.8	2179.1	2131.0	2046.5	1974.8	1964.4	1990.3	1887.2	1841.6	1803.7	1479.9
45°	2128.0	2151.8	2120.2	2062.8	2020.4	2014.8	2082.1	1993.0	1958.7	1924.1	1582.8
47.5°	2019.4	2059.7	2046.7	2038.7	2032.7	2056.5	2162.9	2105.5	2091.4	2061.3	1700.2
50°	1800.2	1876.7	1899.5	1950.2	2008.4	2088.8	2236.3	2228.0	2246.4	2216.0	1843.1
52.5°	1421.3	1526.5	1659.0	1785.9	1933.7	2078.1	2317.1	2404.1	2481.3	2464.8	2070.3
55°	1173.2	1220.6	1322.5	1555.1	1788.6	2032.7	2353.4	2546.3	2714.6	2699.7	2242.6
57.5°	982.6	1025.0	1087.7	1282.1	1569.5	1929.6	2376.1	2633.1	2874.3	2872.9	2412.6
60°	778.2	823.1	887.3	1025.0	1313.4	1751.5	2371.0	2731.9	3078.3	3090.8	2620.0
62.5°	547.5	596.9	668.1	796.5	1051.9	1520.8	2268.6	2803.4	3318.2	3352.4	2869.6
65°	359.9	392.5	446.2	557.0	783.7	1224.2	2073.3	2812.6	3575.1	3632.7	3103.8
67.5°	252.3	264.9	296.4	356.6	516.6	938.7	1762.1	2716.6	3746.4	3811.3	3205.4
70°	196.9	203.2	219.1	243.2	324.5	631.3	1350.2	2466.8	3709.8	3777.4	3099.3
72.5°	170.0	176.1	182.0	185.1	217.7	389.7	914.6	2062.5	3364.9	3410.8	2694.7
75°	154.3	155.7	160.7	159.8	166.0	252.8	527.9	1502.8	2654.9	2639.1	1989.3
77.5°	129.7	131.7	139.9	138.7	147.5	172.8	274.1	969.9	1721.2	1613.9	1107.2
80°	109.9	110.8	119.9	118.4	128.1	125.2	139.9	494.4	730.1	618.5	319.3
82.5°	38.1	47.2	91.5	94.3	97.8	75.7	80.8	201.6	222.9	170.8	66.9
85°	18.6	19.8	46.6	66.2	65.9	38.1	39.4	72.0	70.2	55.1	22.3
87.5°	3.0	3.8	5.5	25.8	20.6	10.0	13.5	14.0	14.6	12.5	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°	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0	570.0
2.5°	576.4	563.8	537.4	513.1	494.0	475.8	465.5	456.7	451.7	450.7	450.7
5°	591.8	566.0	518.1	477.8	451.4	431.8	421.6	415.0	411.8	409.8	409.6
7.5°	614.2	576.4	508.1	462.2	434.6	420.6	415.3	414.3	414.1	414.3	415.0
10°	645.0	593.2	507.1	458.5	435.4	427.6	427.3	427.6	428.7	428.9	429.1
12.5°	678.3	610.4	511.2	461.7	445.0	440.6	439.9	439.6	440.4	440.9	441.2
15°	714.7	633.2	517.9	468.7	455.4	450.9	450.2	448.6	448.4	448.1	447.9
17.5°	752.1	655.8	525.4	476.2	462.2	455.9	453.2	449.7	446.9	446.2	446.9
20°	790.0	678.1	530.6	480.0	462.7	454.0	448.4	442.4	437.7	434.9	435.8
22.5°	830.4	701.5	533.9	479.0	458.2	446.2	436.1	429.1	421.8	417.1	417.3
25°	869.7	721.8	533.7	473.8	449.5	434.1	421.4	412.3	402.3	397.3	397.3
27.5°	907.6	740.0	527.5	464.4	436.9	419.8	404.6	393.7	384.0	379.2	378.9
30°	946.8	755.4	517.6	450.9	422.1	403.2	386.4	377.2	368.4	363.9	363.7
32.5°	985.6	769.5	503.9	434.1	405.1	386.9	370.4	361.9	356.6	356.6	356.9
35°	1026.7	779.2	485.5	414.5	386.9	369.7	356.6	351.6	351.1	348.1	347.4
37.5°	1070.1	785.5	463.2	394.5	369.2	352.9	348.8	342.9	337.8	331.3	330.3
40°	1115.8	791.7	436.3	373.7	350.3	341.3	339.6	331.6	317.2	301.2	299.0
42.5°	1171.2	796.0	408.6	352.9	330.6	327.5	330.0	316.2	293.5	281.4	281.7
45°	1235.4	803.1	382.9	332.3	310.3	310.3	320.7	302.7	283.9	276.3	277.7
47.5°	1318.7	819.4	359.2	309.8	291.4	296.4	300.2	286.4	275.8	266.6	266.3
50°	1439.1	858.4	334.6	286.9	277.2	287.2	281.9	273.9	261.6	254.1	253.3
52.5°	1588.5	881.5	312.7	266.3	264.9	274.9	267.3	259.8	250.5	240.5	238.5
55°	1690.3	885.8	294.4	251.3	256.6	255.5	252.8	246.0	241.0	227.8	228.0
57.5°	1804.2	894.3	279.4	242.3	251.3	240.3	239.2	233.5	226.9	217.9	214.9
60°	1940.4	907.6	266.3	238.7	246.8	230.2	225.2	222.9	216.5	212.0	213.2
62.5°	2088.8	919.6	253.1	239.2	241.5	220.5	212.9	212.2	208.2	206.6	206.6
65°	2190.2	886.8	236.5	238.7	233.2	210.4	200.9	200.6	197.4	196.9	196.6
67.5°	2154.9	782.7	214.2	231.8	224.7	200.4	189.8	188.8	184.6	184.8	184.8
70°	1977.7	634.3	183.4	214.4	214.2	191.4	178.4	175.1	169.3	170.3	171.3
72.5°	1645.7	470.0	142.0	185.6	197.4	183.1	165.0	159.8	152.5	153.4	153.2
75°	1188.5	319.5	103.3	141.2	171.8	173.3	152.0	143.0	134.2	135.7	136.2
77.5°	608.1	181.1	76.0	97.3	134.9	157.5	140.2	128.1	126.2	140.2	138.2
80°	198.3	90.8	52.7	68.3	88.6	128.9	122.9	109.1	108.5	111.8	96.0
82.5°	59.1	38.3	33.8	44.9	48.9	98.8	106.1	82.5	70.9	74.7	77.3
85°	20.3	18.6	19.3	22.3	23.4	57.9	74.2	54.6	51.7	56.9	56.2
87.5°	4.7	6.6	5.5	5.0	5.0	14.0	28.8	22.9	31.6	21.1	20.3
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)