

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: P959217

Luminaire Tested: **NAV-SB1A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3792.5 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

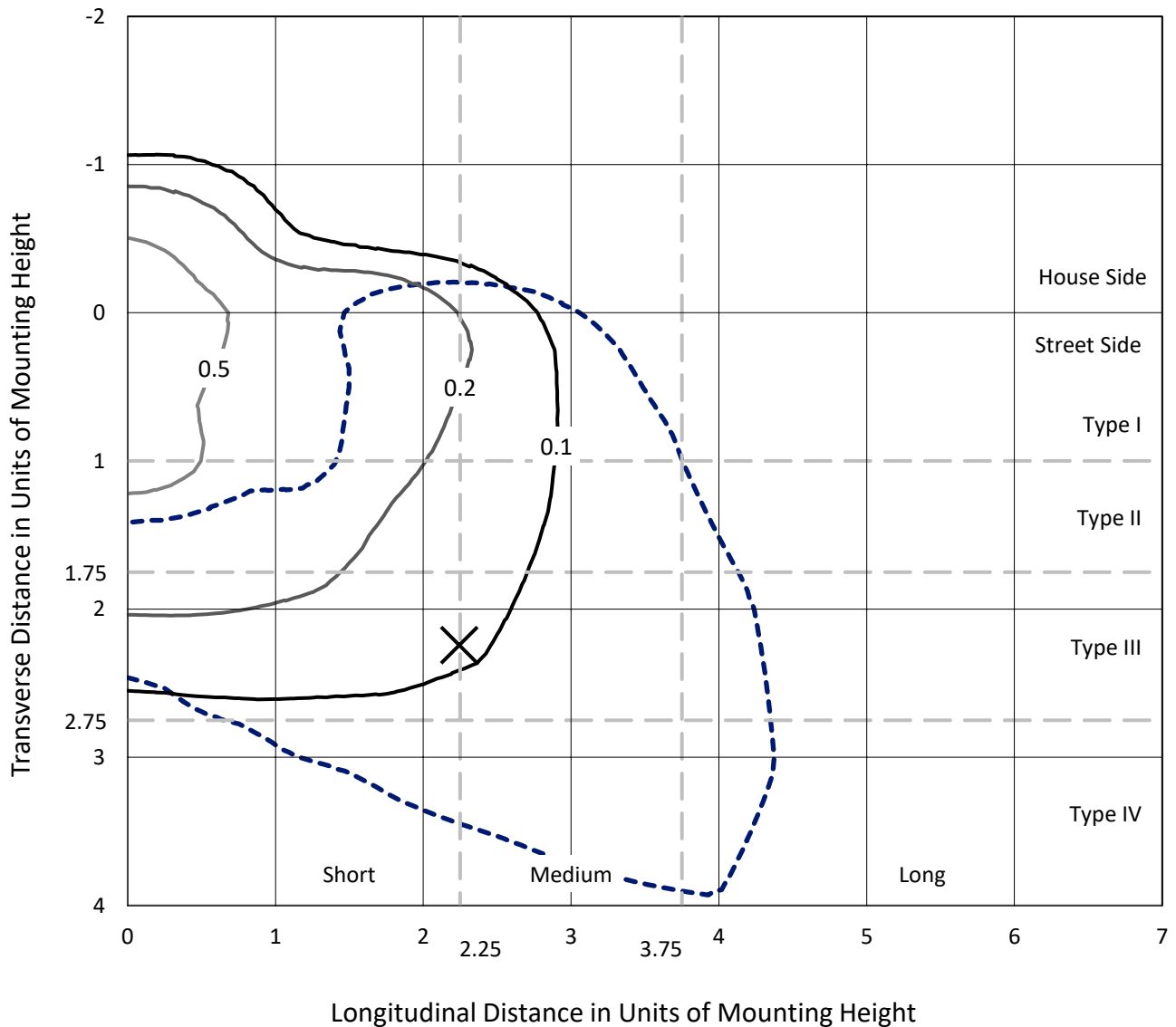
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

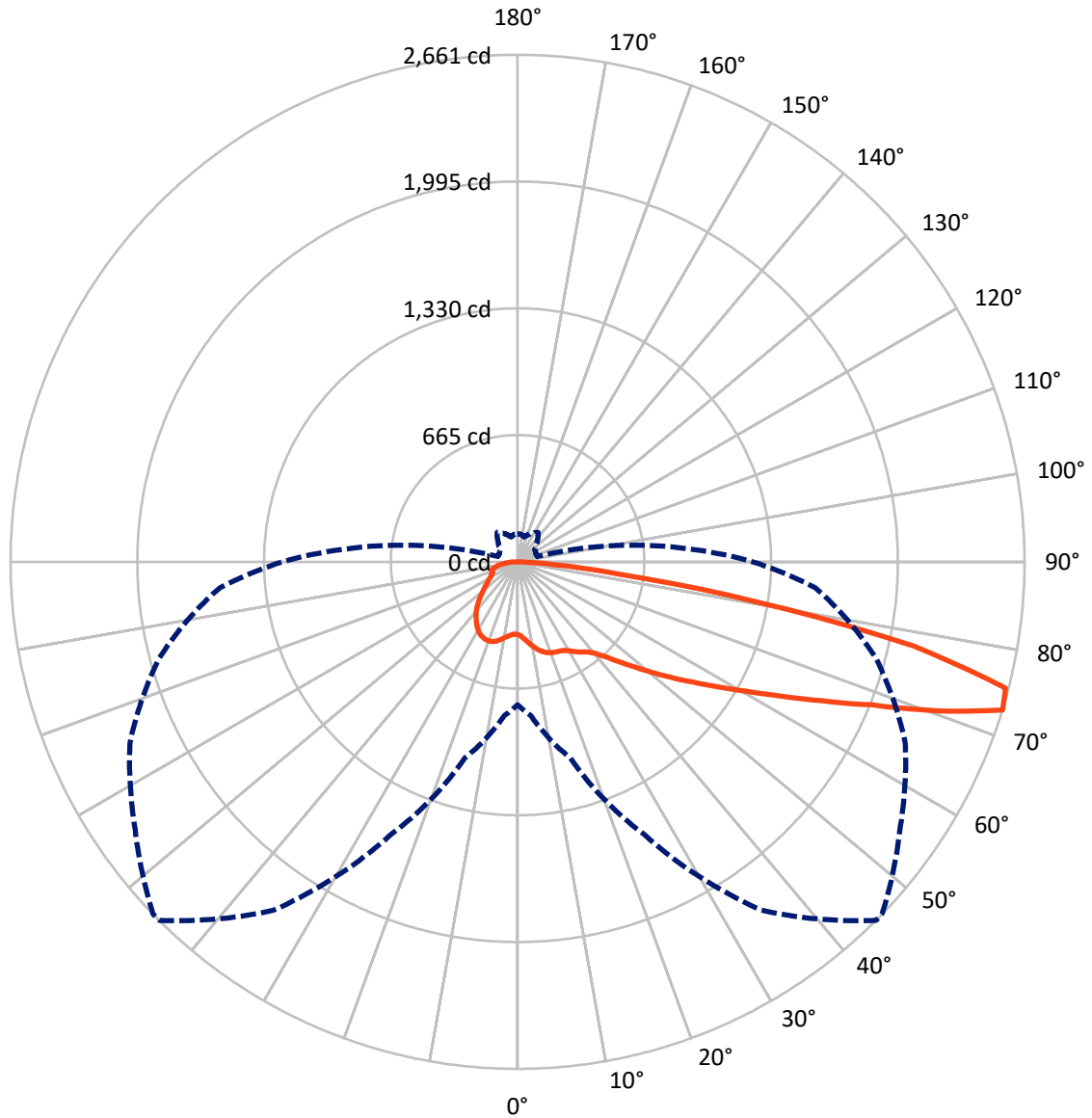
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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
House Side	Lumens	857.4	0.0	857.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2935.1	0.0	2935.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	3792.5	0.0	3792.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	1.0
10°-20°	129.8	3.4
20°-30°	225.9	6.0
30°-40°	323.8	8.5
40°-50°	455.9	12.0
50°-60°	698.3	18.4
60°-70°	1011.6	26.7
70°-80°	807.8	21.3
80°-90°	100.6	2.7
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°	3792.5	100.0
0°-180°	3792.5	100.0

Coefficient of Utilization

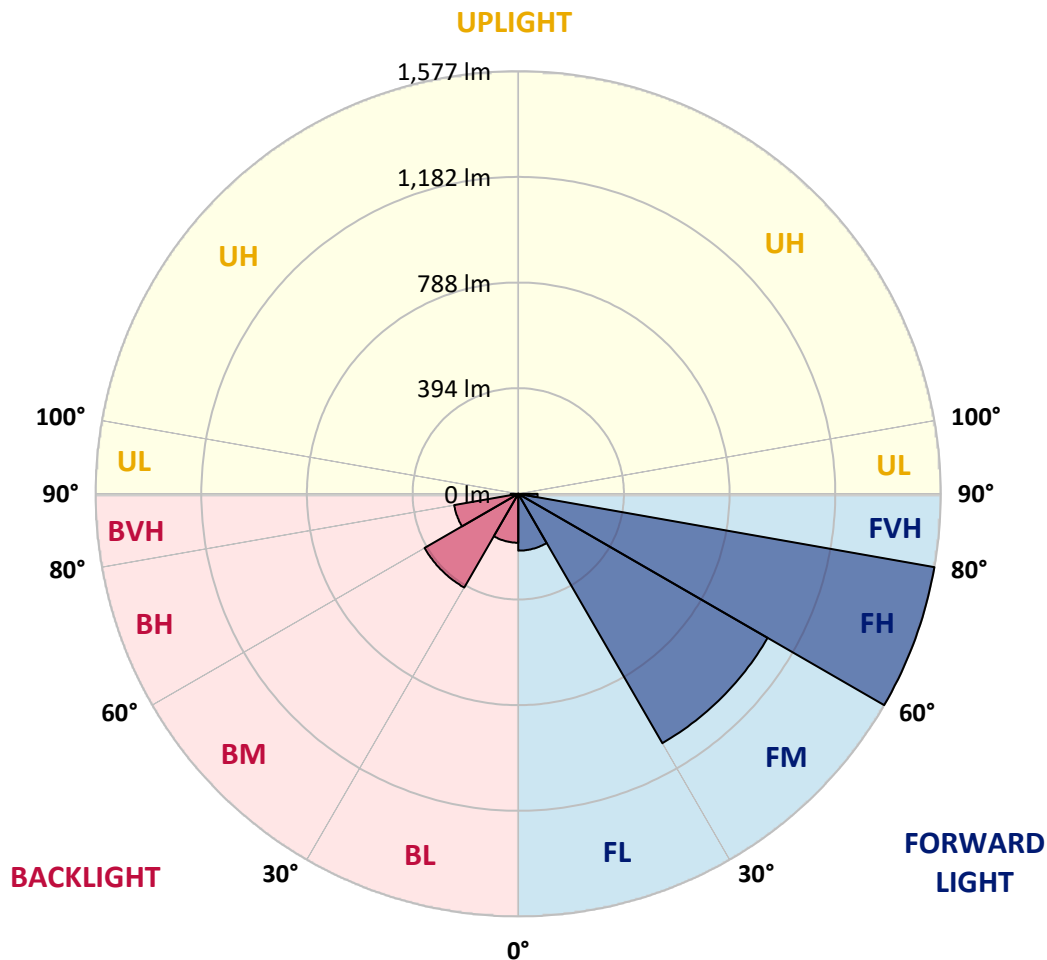


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.1	5.6			
FM (30°-60°)	1074.2	28.3			
FH (60°-80°)	1576.7	41.6			G1/1800
FVH (80°-90°)	72.2	1.9			G1/100
BL (0°-30°)	182.5	4.8	B1/500		
BM (30°-60°)	403.7	10.6	B1/1000		
BH (60°-80°)	242.7	6.4	B1/500		G1/500
BVH (80°-90°)	28.4	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
2.5°	397.6	400.2	397.8	395.5	394.6	392.0	391.8	390.2	389.2	386.4	385.6
5°	425.4	428.8	424.8	420.4	416.4	410.0	409.2	404.6	399.3	393.4	390.0
7.5°	456.7	459.7	455.1	448.5	441.6	430.9	430.7	422.3	414.2	404.0	398.2
10°	484.1	488.1	481.9	472.9	464.1	452.1	450.7	441.2	430.7	417.6	408.8
12.5°	508.3	511.1	505.0	494.0	483.9	471.9	470.1	459.5	447.9	433.0	421.8
15°	527.5	531.1	523.1	511.3	500.5	488.7	487.1	477.4	465.9	450.1	435.7
17.5°	540.0	543.0	534.8	521.6	511.3	501.4	500.3	492.3	482.1	466.1	450.7
20°	544.8	548.0	539.5	526.0	516.4	508.8	508.3	502.5	495.5	480.9	465.4
22.5°	549.6	552.6	541.4	527.5	519.1	514.2	514.0	510.2	507.5	495.5	480.3
25°	569.0	569.8	554.8	534.6	522.6	518.4	518.2	518.0	519.3	509.8	496.5
27.5°	585.8	585.6	572.8	553.8	535.3	526.4	526.2	528.2	532.1	524.3	513.2
30°	610.4	608.1	593.0	573.2	556.2	542.6	541.4	539.7	542.6	536.4	530.0
32.5°	662.5	655.5	630.9	595.7	573.6	563.2	561.6	550.4	551.7	547.9	544.6
35°	737.2	728.1	695.3	638.5	595.1	580.4	579.5	565.4	563.0	559.6	560.8
37.5°	826.2	814.8	776.5	700.5	632.3	600.3	599.1	586.4	576.6	573.0	579.7
40°	915.4	901.1	869.5	775.9	687.1	633.8	630.0	610.6	599.3	593.4	607.7
42.5°	1002.1	990.1	963.2	860.7	754.6	682.4	674.0	640.9	632.5	626.9	652.9
45°	1078.8	1068.0	1048.3	951.2	833.7	748.8	740.6	686.4	683.9	683.9	721.4
47.5°	1141.1	1138.8	1117.8	1043.4	927.0	824.3	810.2	749.8	756.8	767.6	818.8
50°	1210.3	1203.7	1181.3	1134.4	1036.7	910.8	899.2	827.5	853.7	883.2	959.4
52.5°	1273.9	1277.5	1252.4	1229.1	1160.5	1007.4	987.0	919.2	975.8	1024.7	1124.2
55°	1339.2	1339.4	1332.4	1329.2	1290.4	1114.0	1091.6	1029.5	1119.4	1180.1	1316.4
57.5°	1400.5	1400.9	1411.3	1439.4	1441.0	1237.1	1211.7	1164.9	1279.0	1341.0	1514.5
60°	1455.2	1458.1	1486.5	1552.4	1573.5	1378.1	1354.1	1325.0	1444.0	1506.3	1722.9
62.5°	1473.6	1483.8	1546.9	1640.6	1704.4	1551.1	1527.6	1510.1	1617.4	1675.4	1897.2
65°	1442.5	1465.9	1587.9	1713.6	1839.1	1756.7	1733.4	1714.3	1797.6	1852.2	2040.2
67.5°	1365.9	1396.2	1585.5	1790.1	2002.4	2004.1	1982.2	1937.8	1990.9	2011.9	2086.8
70°	1164.4	1209.5	1445.9	1818.7	2190.0	2342.3	2321.3	2206.6	2183.7	2082.2	1955.7
72.5°	750.2	811.0	1064.7	1583.5	2231.8	2660.6	2659.4	2449.3	2244.5	1945.6	1568.6
75°	273.7	310.9	494.7	993.9	1873.4	2644.4	2652.2	2407.8	2049.0	1502.8	977.1
77.5°	99.7	109.1	161.4	382.0	1152.2	2121.8	2137.9	1925.0	1458.5	754.2	387.1
80°	52.4	57.5	82.7	148.2	493.6	1260.0	1285.5	1144.0	685.4	227.1	116.0
82.5°	29.0	31.4	46.3	80.5	222.3	538.8	554.0	451.9	241.2	96.2	48.0
85°	15.6	16.6	21.7	44.0	108.6	186.8	191.0	135.1	96.1	56.6	23.2
87.5°	4.6	5.6	7.2	13.9	42.5	41.9	42.9	26.8	37.9	28.6	7.6
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°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
2.5°	384.4	383.8	381.6	380.6	379.4	379.1	380.2	380.4	380.6	380.8	381.6
5°	388.0	386.0	384.0	382.8	383.1	383.3	385.4	386.8	387.8	388.6	389.0
7.5°	394.9	393.4	390.0	389.8	390.4	392.2	394.7	398.0	399.7	401.2	401.6
10°	405.4	402.4	398.4	398.9	400.2	402.7	408.2	410.7	413.8	416.4	415.7
12.5°	415.9	413.4	408.8	409.2	411.1	415.7	421.0	424.1	426.1	428.1	429.0
15°	429.8	425.2	420.1	420.1	423.7	428.8	431.1	433.8	434.9	437.2	437.9
17.5°	443.9	437.9	431.3	430.9	435.3	437.8	439.1	439.5	439.9	442.3	443.1
20°	458.1	451.5	442.1	441.4	442.3	441.9	441.8	441.4	441.9	445.0	446.1
22.5°	472.1	464.5	451.5	447.9	445.2	441.4	441.2	441.0	441.4	444.3	446.3
25°	488.5	479.3	461.9	451.1	441.8	436.5	437.2	437.4	437.8	440.1	443.3
27.5°	506.2	496.1	471.5	450.1	433.2	429.6	428.6	429.2	430.5	434.3	438.1
30°	524.1	512.1	480.3	446.1	422.3	417.4	414.2	415.5	419.9	423.7	427.9
32.5°	540.2	528.2	487.3	437.4	408.6	400.8	396.6	398.4	402.7	404.2	409.2
35°	559.2	545.6	490.3	423.3	393.6	381.6	376.0	373.4	375.6	374.2	378.6
37.5°	580.4	566.2	489.8	405.0	376.0	362.2	354.4	344.6	340.0	335.3	338.2
40°	611.7	591.3	485.0	382.8	354.2	341.6	327.7	311.1	300.6	291.3	291.9
42.5°	654.5	626.4	476.3	358.4	329.6	317.9	298.9	279.5	263.1	247.5	246.1
45°	718.2	672.1	465.4	332.4	303.1	291.5	270.9	249.2	230.5	210.5	208.2
47.5°	810.2	733.6	454.9	302.9	275.1	264.6	245.9	225.8	203.8	184.4	182.2
50°	936.4	821.9	445.4	274.1	247.5	239.5	224.8	204.2	182.0	166.5	165.4
52.5°	1097.1	942.0	441.4	246.3	221.8	218.7	206.9	187.8	166.9	153.6	152.6
55°	1281.5	1085.7	441.4	219.8	199.2	200.2	192.0	174.2	156.0	144.2	143.1
57.5°	1469.6	1231.1	433.4	195.2	180.0	184.2	179.0	163.4	147.1	134.9	132.8
60°	1643.1	1352.9	401.0	172.8	163.0	169.6	166.3	152.8	132.8	122.7	121.1
62.5°	1776.3	1421.7	338.7	155.1	149.0	156.6	154.9	138.9	130.3	126.1	124.6
65°	1843.1	1410.5	258.9	139.3	137.2	149.0	145.2	144.6	137.9	133.0	131.5
67.5°	1802.1	1314.2	187.8	127.6	130.5	142.1	156.6	159.1	146.5	137.0	135.5
70°	1622.5	1140.0	139.8	116.6	121.9	142.3	178.7	166.5	143.6	132.6	130.9
72.5°	1234.3	850.1	108.4	105.1	110.7	143.3	188.4	163.0	135.6	146.7	145.4
75°	705.8	466.7	87.1	90.9	96.7	133.9	183.4	154.3	129.5	134.7	134.7
77.5°	269.1	179.4	72.0	76.9	77.7	116.8	175.4	153.6	123.3	120.2	109.7
80°	93.3	70.1	59.6	61.1	60.2	103.9	168.2	133.7	100.9	90.3	87.3
82.5°	38.1	35.0	47.2	45.2	42.7	80.7	135.8	109.3	82.5	72.9	72.2
85°	16.6	22.1	31.2	27.4	24.8	56.0	108.9	92.5	69.7	60.2	60.0
87.5°	3.4	8.4	13.2	12.4	12.8	37.3	77.3	65.7	49.3	37.0	29.0
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)