

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: P959736

Luminaire Tested: **NAV-SB1B-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4726.3 lumens
Efficiency: N/A
Efficacy: 118.8 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

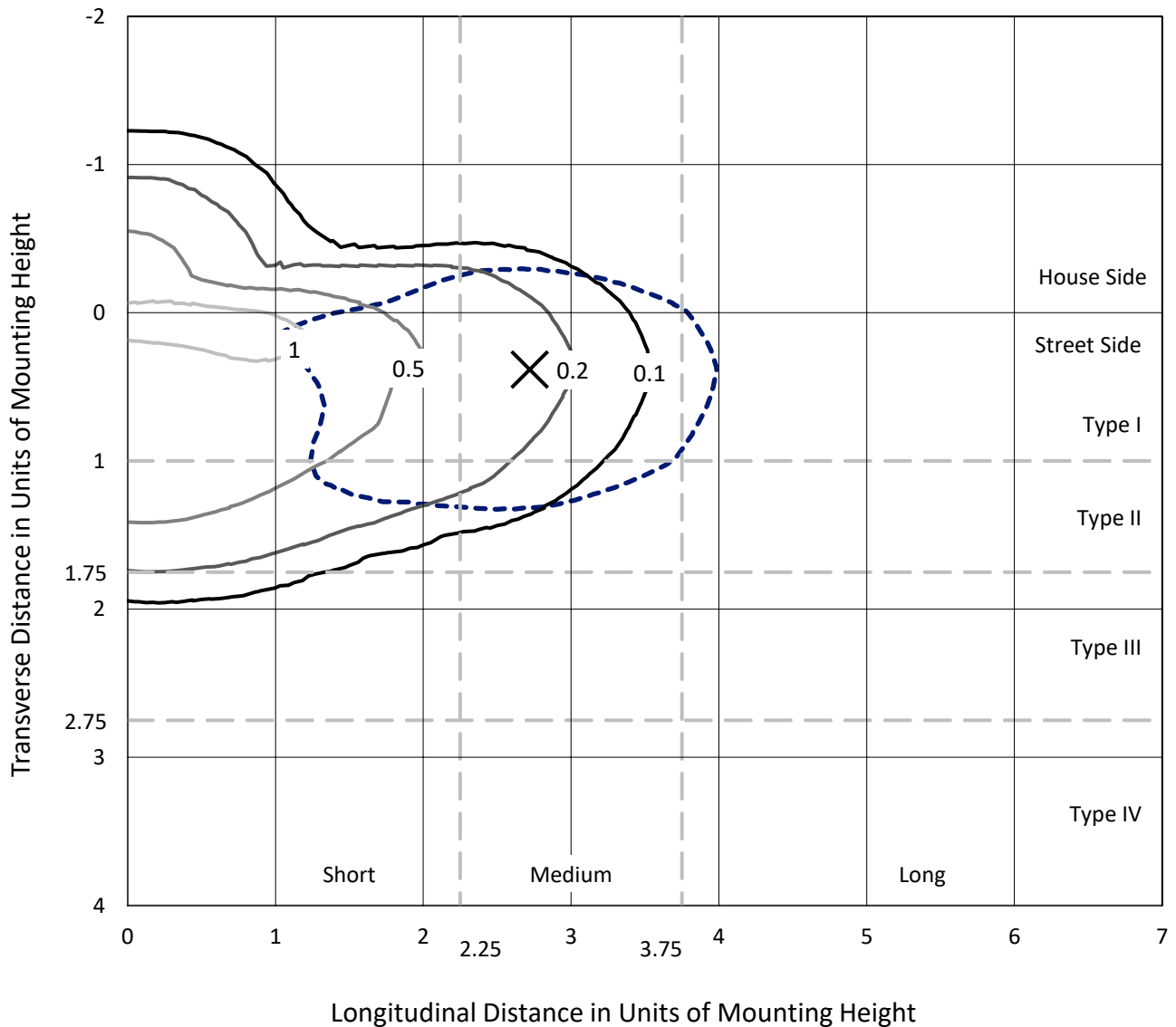
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

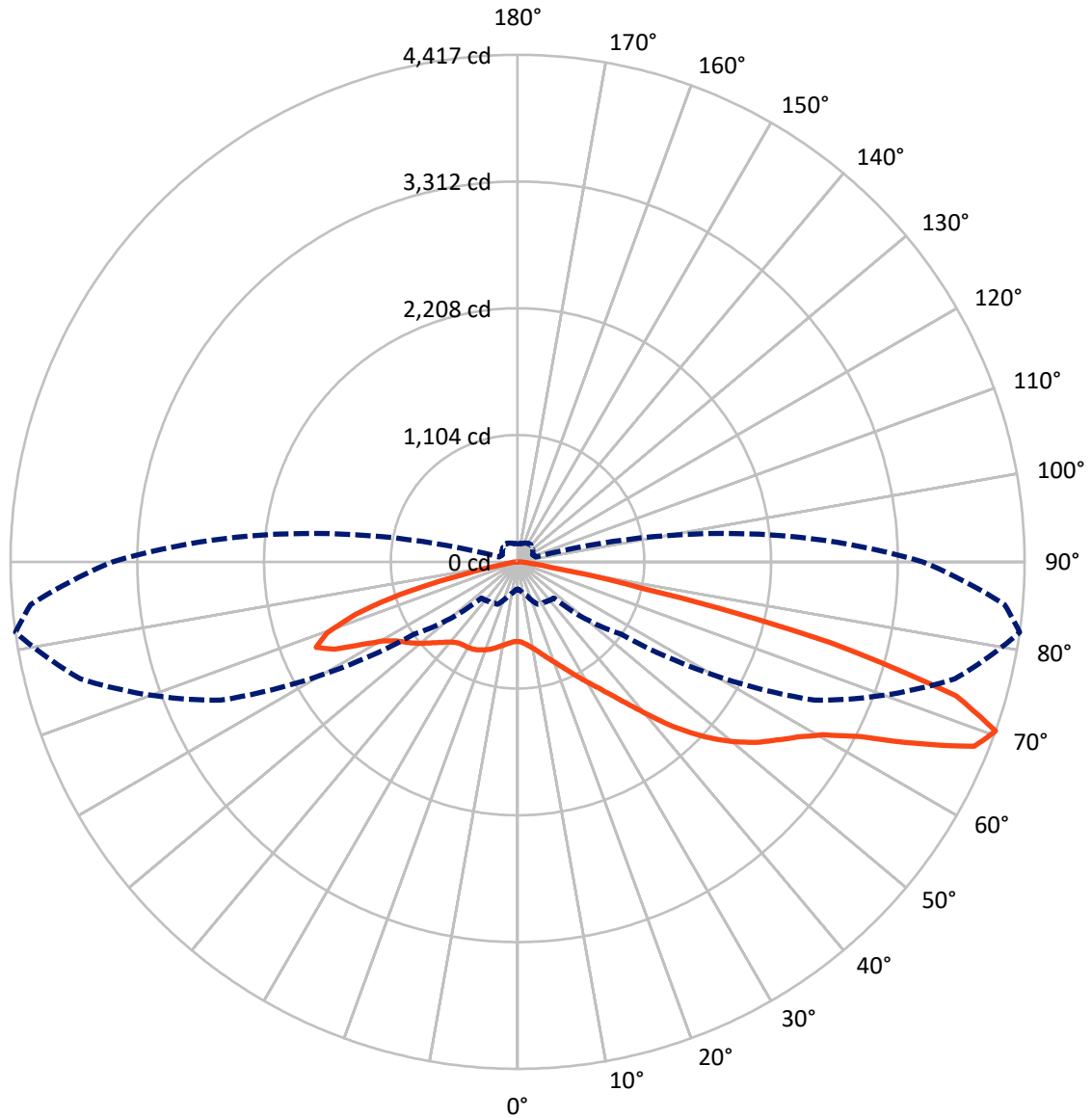
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1165.1	0.0	1165.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3561.1	0.0	3561.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	4726.3	0.0	4726.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	1.4
10°-20°	188.0	4.0
20°-30°	314.5	6.7
30°-40°	491.3	10.4
40°-50°	782.4	16.6
50°-60°	1088.8	23.0
60°-70°	1138.9	24.1
70°-80°	595.3	12.6
80°-90°	61.8	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°	4726.3	100.0
0°-180°	4726.3	100.0

Coefficient of Utilization

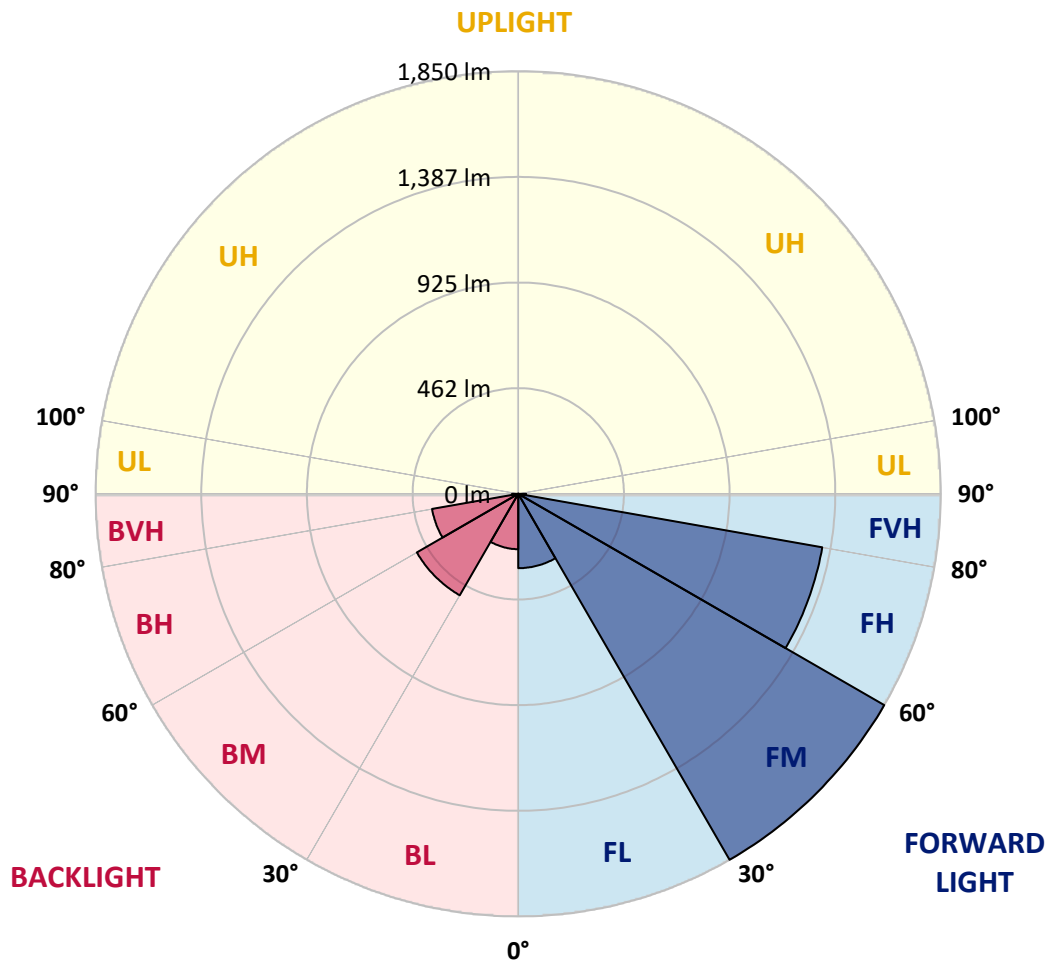


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.5	6.9			
FM (30°-60°)	1849.8	39.1			
FH (60°-80°)	1351.3	28.6			G1/1800
FVH (80°-90°)	34.6	0.7			G1/100
BL (0°-30°)	242.4	5.1	B1/500		
BM (30°-60°)	512.6	10.8	B1/1000		
BH (60°-80°)	382.9	8.1	B1/500		G1/500
BVH (80°-90°)	27.2	0.6			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°	82°	85°
0°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	709.5	713.5	712.3	710.9	710.9	709.2	709.0	706.4	704.5	701.2	700.5
5°	718.5	722.7	722.3	723.2	726.5	727.3	728.1	726.5	722.5	718.5	716.8
7.5°	710.5	715.2	716.8	722.7	732.8	741.8	748.6	751.3	747.6	741.8	739.1
10°	683.4	688.7	693.9	708.3	726.0	747.3	765.4	776.2	775.4	769.9	765.2
12.5°	628.4	634.0	645.2	673.1	705.7	743.3	776.9	799.5	807.3	803.3	795.0
15°	584.6	589.4	597.9	626.5	668.8	726.0	781.3	825.1	844.9	842.7	832.6
17.5°	583.3	585.4	590.6	604.1	636.7	698.9	776.7	850.1	888.1	887.8	875.2
20°	605.4	606.2	609.2	611.9	630.5	678.3	765.2	870.9	936.4	936.4	922.9
22.5°	636.0	635.5	638.5	636.0	645.0	676.6	757.9	889.3	990.4	994.4	977.3
25°	681.9	679.4	678.7	672.9	674.7	692.9	765.9	910.1	1054.3	1062.6	1041.3
27.5°	743.1	739.1	736.4	723.0	718.5	726.5	790.5	935.2	1125.6	1139.8	1112.7
30°	822.9	815.6	811.6	788.5	772.1	773.5	827.6	968.5	1200.1	1223.1	1188.7
32.5°	931.7	920.3	909.6	871.8	841.9	832.1	875.6	1014.6	1280.7	1317.6	1273.5
35°	1053.6	1044.6	1033.0	974.6	928.6	906.1	940.2	1079.1	1375.3	1433.8	1376.4
37.5°	1171.0	1163.2	1168.7	1089.9	1030.7	997.9	1025.0	1165.6	1492.0	1578.2	1505.2
40°	1292.3	1286.3	1287.1	1211.9	1142.9	1106.0	1127.8	1274.3	1625.6	1750.0	1660.2
42.5°	1424.2	1419.7	1404.7	1337.9	1260.4	1226.1	1246.2	1399.6	1769.0	1945.7	1830.2
45°	1571.9	1569.2	1555.1	1478.7	1389.9	1351.3	1378.3	1538.1	1913.3	2129.7	2001.0
47.5°	1699.6	1701.8	1700.1	1635.7	1543.6	1487.0	1519.3	1682.5	2047.4	2302.8	2164.8
50°	1761.1	1772.8	1790.2	1770.1	1712.9	1655.2	1661.5	1821.9	2175.4	2465.0	2321.8
52.5°	1729.0	1751.2	1798.4	1830.5	1852.6	1840.6	1823.8	1960.4	2295.7	2611.5	2470.2
55°	1609.4	1640.6	1718.9	1796.4	1909.0	1996.5	2018.6	2113.9	2413.1	2740.3	2610.7
57.5°	1391.3	1442.3	1512.5	1669.2	1858.8	2072.0	2245.8	2326.9	2537.5	2878.1	2757.7
60°	1017.7	1085.9	1173.2	1406.4	1683.3	2031.7	2439.2	2653.8	2714.3	3056.3	2949.0
62.5°	651.3	693.4	773.7	993.3	1311.6	1824.7	2498.3	3062.6	3014.0	3348.8	3235.9
65°	445.9	473.0	546.4	669.8	847.9	1358.2	2339.9	3369.1	3490.0	3812.3	3726.5
67.5°	324.0	344.6	407.2	515.4	552.5	803.8	1815.7	3355.0	3952.7	4289.7	4156.4
70°	236.3	250.8	303.5	407.2	425.1	447.2	1099.9	2852.0	3942.7	4416.6	4256.9
72.5°	175.1	185.1	220.5	316.0	344.1	302.0	544.5	2072.8	3387.9	3994.8	3866.7
75°	126.7	134.2	160.2	241.8	275.4	230.0	271.6	1211.3	2363.1	2810.1	2832.7
77.5°	96.8	102.6	119.6	177.0	220.5	172.5	168.5	557.3	1120.5	1126.1	1189.2
80°	77.7	81.5	90.8	124.6	169.0	129.1	109.9	225.0	354.1	299.7	314.5
82.5°	57.2	63.4	76.8	87.5	120.8	89.1	66.9	113.6	134.7	115.8	116.8
85°	32.6	36.9	46.4	62.7	77.3	54.4	38.3	50.4	62.7	51.5	45.9
87.5°	11.6	15.1	16.3	24.6	33.6	22.5	14.8	14.6	20.6	15.3	12.8
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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	697.9	696.7	691.7	684.9	677.8	671.1	668.8	664.1	660.8	659.1	661.1
5°	712.0	708.0	696.2	681.1	665.3	648.3	636.2	625.2	617.2	609.7	612.6
7.5°	732.1	725.0	704.7	678.3	650.3	622.0	600.9	584.9	574.1	567.0	568.6
10°	755.4	744.6	713.5	674.1	630.8	590.1	565.3	551.4	544.7	541.0	541.9
12.5°	782.2	766.9	722.5	664.3	600.9	554.5	537.4	533.4	533.7	533.9	534.4
15°	815.3	794.0	729.8	643.0	562.0	527.2	524.2	530.6	537.4	540.7	540.5
17.5°	852.7	822.6	731.0	607.9	523.9	509.6	519.2	533.2	543.5	548.0	549.0
20°	892.8	851.7	722.0	558.2	492.5	495.3	512.4	530.4	541.7	547.5	549.0
22.5°	938.7	882.7	700.5	506.0	467.0	479.8	499.8	517.4	529.2	534.9	536.5
25°	991.1	917.7	666.6	462.2	444.8	462.2	482.3	496.8	506.4	511.6	513.1
27.5°	1049.3	954.0	621.5	427.3	425.6	444.1	460.7	472.0	477.0	481.0	482.5
30°	1107.7	987.1	566.8	401.0	408.8	426.3	438.1	443.1	444.6	445.4	447.2
32.5°	1171.0	1015.7	509.3	379.1	392.8	409.1	416.0	418.3	411.3	406.5	408.1
35°	1247.4	1046.3	453.2	361.9	376.9	390.9	393.2	391.2	382.9	373.2	373.7
37.5°	1341.9	1084.4	408.3	349.6	362.1	371.5	368.7	368.2	368.9	357.4	358.1
40°	1457.9	1134.1	375.5	340.1	350.1	352.1	344.3	348.6	352.4	334.8	335.3
42.5°	1586.5	1194.0	354.6	333.5	340.1	335.3	323.3	328.0	327.5	304.4	304.2
45°	1717.7	1259.2	347.4	328.8	330.8	321.2	308.0	309.2	298.7	277.9	278.6
47.5°	1848.1	1329.2	351.9	324.8	319.3	308.4	298.2	292.6	277.2	261.6	261.6
50°	1976.0	1402.7	368.4	316.7	303.5	297.1	289.7	279.9	263.3	250.0	249.1
52.5°	2094.6	1476.6	386.9	303.5	283.6	287.4	282.6	271.3	255.0	241.5	241.8
55°	2206.9	1550.6	394.2	285.2	265.1	278.9	276.1	255.3	235.7	224.7	223.7
57.5°	2329.3	1639.7	386.2	261.8	250.0	269.1	258.6	235.4	224.2	216.0	215.1
60°	2498.8	1779.4	368.9	233.0	235.7	254.5	236.5	226.9	214.6	205.4	204.9
62.5°	2780.5	2040.0	341.1	204.4	218.9	233.0	225.9	216.5	203.9	194.9	194.9
65°	3196.8	2402.1	288.6	182.0	200.1	211.9	214.6	205.1	192.1	182.6	183.1
67.5°	3547.9	2629.2	218.4	163.5	180.8	194.9	202.6	193.3	179.6	170.3	170.6
70°	3528.6	2464.3	166.8	145.2	163.8	178.0	188.1	180.8	166.0	157.2	158.0
72.5°	3134.1	2061.5	134.9	126.7	146.5	160.5	172.5	167.1	152.0	143.5	143.5
75°	2302.5	1463.4	107.8	107.8	124.8	142.2	155.5	152.0	138.2	132.1	130.4
77.5°	970.6	614.0	84.6	89.5	103.8	122.2	138.7	139.9	127.9	135.4	122.9
80°	258.1	169.3	64.5	70.5	81.5	100.9	120.6	120.1	107.1	100.0	93.1
82.5°	98.3	66.7	45.9	49.6	58.9	77.3	95.5	98.6	85.5	74.0	74.0
85°	37.8	28.6	28.3	29.8	34.3	51.1	72.3	74.7	64.5	54.6	56.5
87.5°	9.7	8.5	10.6	10.0	15.8	27.4	41.4	42.8	39.4	22.9	32.6
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)