

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: P963423

Luminaire Tested: **NAV-SB3A-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8709.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

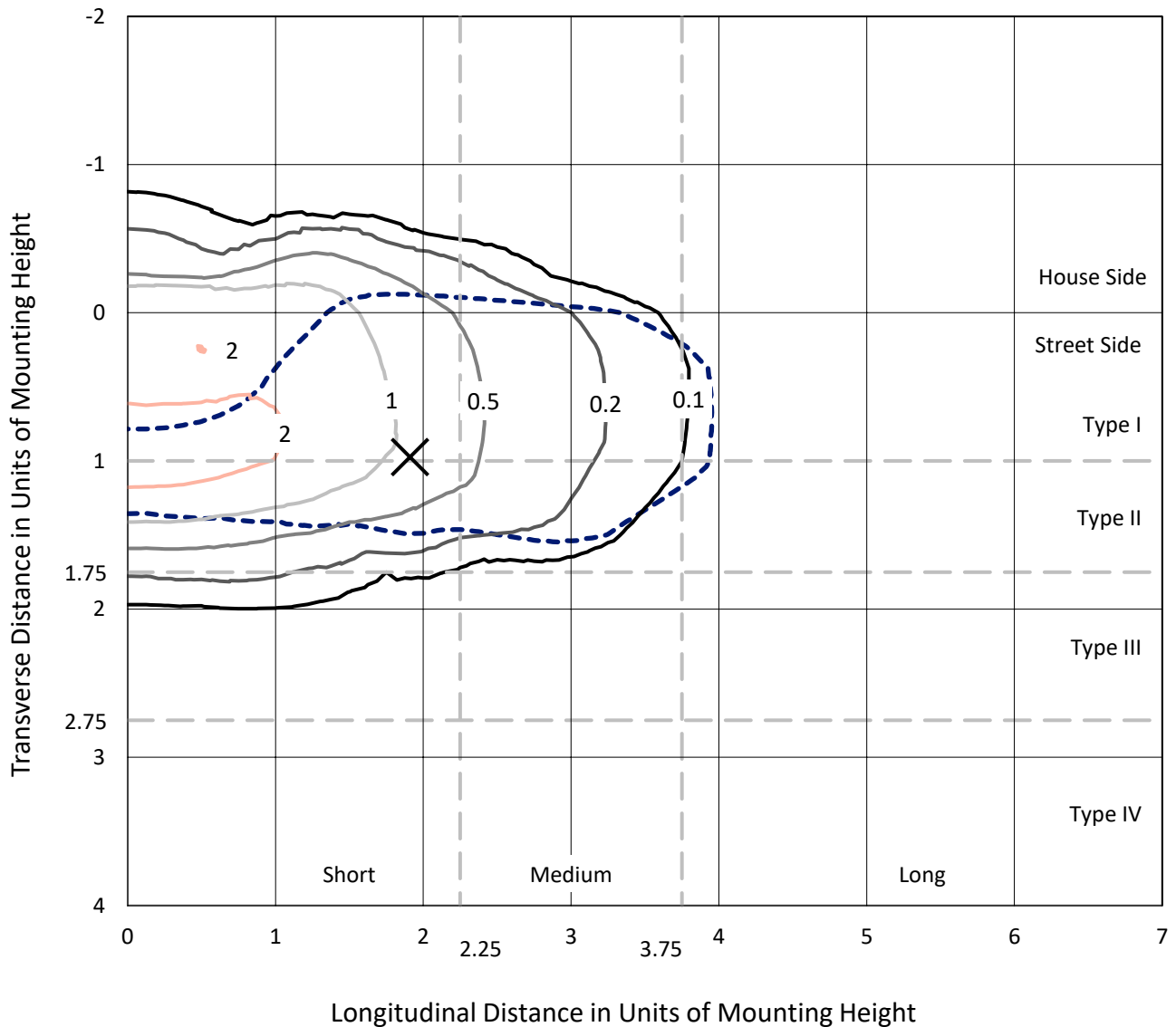
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

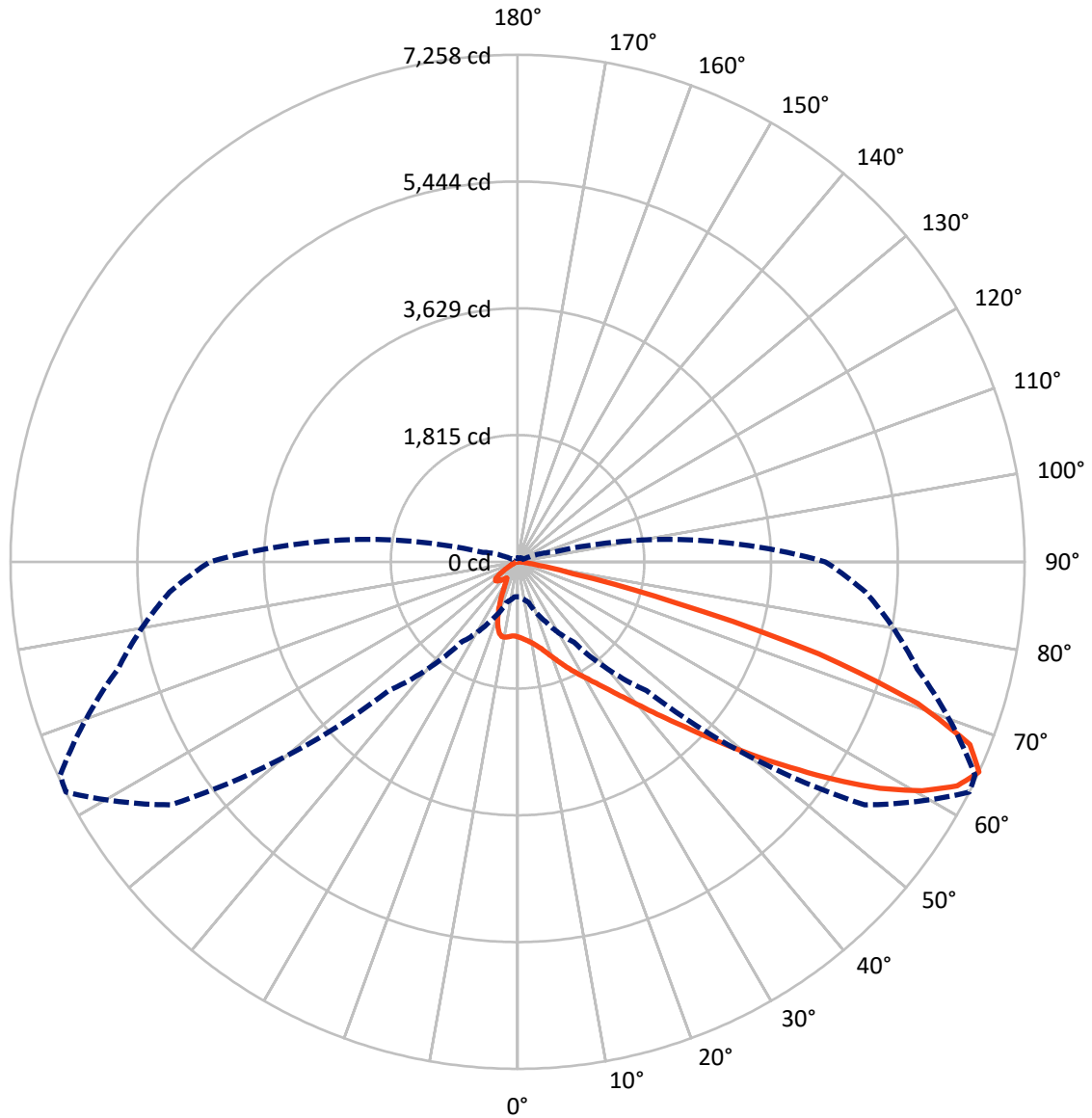
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1280.2	0.0	1280.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7429.2	0.0	7429.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	8709.4	0.0	8709.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.2
10°-20°	281.0	3.2
20°-30°	489.3	5.6
30°-40°	881.9	10.1
40°-50°	1749.1	20.1
50°-60°	2382.6	27.4
60°-70°	1901.8	21.8
70°-80°	860.6	9.9
80°-90°	61.9	0.7
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°	8709.4	100.0
0°-180°	8709.4	100.0

Coefficient of Utilization



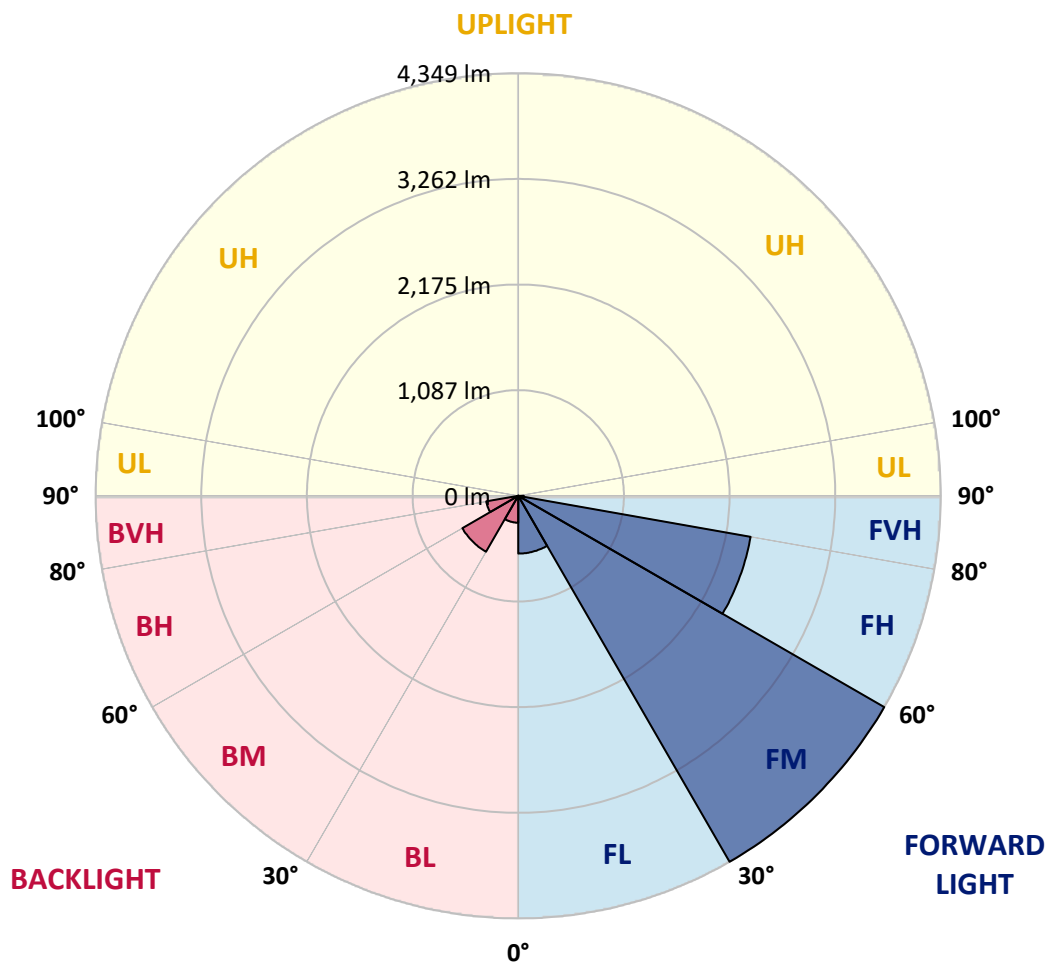
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.5	6.8			
FM (30°-60°)	4349.3	49.9			
FH (60°-80°)	2428.1	27.9			G2/5000
FVH (80°-90°)	57.3	0.7			G1/100
BL (0°-30°)	277.1	3.2	B1/500		
BM (30°-60°)	664.3	7.6	B1/1000		
BH (60°-80°)	334.2	3.8	B1/500		G1/500
BVH (80°-90°)	4.6	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1100.0	1097.1	1101.3	1099.5	1098.3	1095.8	1094.7	1093.5	1091.1	1089.3	1082.1
5°	1103.1	1101.3	1105.5	1109.0	1112.6	1116.2	1118.1	1120.4	1118.1	1113.3	1106.1
7.5°	1077.9	1076.7	1085.7	1096.4	1112.6	1126.5	1141.4	1149.8	1150.4	1148.6	1140.8
10°	1076.1	1073.1	1082.1	1095.3	1116.2	1140.8	1167.2	1185.1	1187.6	1195.4	1186.9
12.5°	1104.2	1101.3	1113.9	1128.2	1149.8	1175.6	1208.0	1233.1	1236.7	1247.4	1241.5
15°	1151.6	1147.4	1161.8	1180.4	1208.0	1237.3	1271.4	1294.2	1297.2	1310.4	1299.6
17.5°	1206.7	1202.5	1219.3	1239.1	1269.1	1309.2	1348.7	1373.9	1377.5	1385.9	1366.1
20°	1277.5	1272.0	1285.2	1303.2	1335.0	1382.9	1430.2	1466.2	1465.5	1465.5	1433.3
22.5°	1359.6	1351.2	1362.5	1376.9	1406.8	1464.9	1527.9	1570.4	1570.4	1553.6	1500.3
25°	1447.6	1439.2	1451.8	1464.9	1491.4	1557.3	1631.0	1683.7	1686.0	1657.3	1572.2
27.5°	1557.8	1547.0	1556.7	1572.2	1587.8	1654.9	1742.4	1803.5	1804.7	1760.3	1640.5
30°	1770.0	1739.4	1709.4	1692.7	1699.9	1766.4	1859.9	1927.5	1933.6	1872.4	1714.8
32.5°	2158.2	2152.2	2046.7	1909.0	1837.0	1886.2	1991.1	2072.5	2076.1	1997.6	1811.3
35°	2761.6	2754.4	2584.8	2322.3	2088.1	2046.7	2150.4	2246.9	2244.4	2155.8	1936.5
37.5°	3481.7	3475.2	3251.7	2900.5	2521.3	2289.4	2356.0	2457.2	2472.2	2356.0	2098.3
40°	4097.1	4072.5	3931.2	3592.6	3096.5	2692.1	2648.3	2715.4	2731.0	2593.2	2303.8
42.5°	4563.3	4542.3	4470.4	4258.9	3792.7	3287.6	2992.8	3018.6	3035.9	2870.6	2539.8
45°	4804.7	4800.0	4828.7	4808.9	4502.1	4018.6	3485.4	3378.1	3384.7	3178.0	2807.7
47.5°	4838.9	4836.5	4967.7	5153.5	5112.1	4843.1	4117.5	3826.3	3803.0	3524.9	3098.9
50°	4637.5	4632.8	4884.4	5232.5	5519.5	5535.7	4835.3	4331.3	4279.9	3883.8	3402.7
52.5°	3994.6	3993.5	4406.9	4986.3	5662.7	6142.1	5544.7	4886.2	4800.0	4263.7	3723.8
55°	3073.8	3095.9	3569.9	4254.7	5401.5	6433.8	6181.6	5502.2	5369.8	4645.9	4019.8
57.5°	2177.4	2209.7	2678.3	3288.2	4591.4	6261.3	6612.4	6119.4	5976.7	5027.0	4320.0
60°	1169.5	1198.3	1667.5	2395.4	3415.8	5617.8	6839.5	6654.9	6520.1	5388.9	4590.9
62.5°	696.8	706.4	900.6	1546.4	2310.4	4291.9	6743.1	7063.0	6952.2	5692.7	4826.3
65°	500.3	502.1	599.7	944.3	1402.6	2607.6	6066.6	7258.3	7224.2	5921.5	5000.7
67.5°	421.2	420.0	460.7	627.3	955.7	1306.2	4649.5	6982.1	7127.1	6066.6	5099.5
70°	361.3	363.1	411.0	459.6	718.4	739.3	2311.6	6079.2	6388.3	6104.9	5093.5
72.5°	269.1	275.0	319.4	418.8	542.2	508.7	798.1	4507.5	5066.6	5752.0	4829.3
75°	189.9	192.9	224.7	352.3	404.5	370.3	407.4	2330.1	3046.8	4409.9	3952.7
77.5°	146.2	151.6	170.1	246.3	398.4	260.0	249.3	806.5	1239.1	2663.9	2710.0
80°	79.1	88.7	122.8	177.9	279.8	184.0	123.4	321.1	420.0	1245.7	1045.0
82.5°	40.7	45.5	85.7	128.2	159.4	160.6	61.1	133.7	173.1	384.7	143.2
85°	16.2	19.8	57.5	70.7	82.1	79.1	27.6	53.9	62.3	106.7	43.8
87.5°	3.6	5.9	21.0	16.2	15.6	16.8	6.6	12.6	12.0	12.6	7.8
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°	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1081.5	1079.1	1072.6	1065.3	1057.0	1052.2	1049.2	1048.6	1044.4	1041.4	1044.4
5°	1099.5	1097.1	1084.4	1069.5	1053.3	1040.8	1028.8	1018.0	1002.4	999.4	998.2
7.5°	1135.4	1128.8	1108.4	1088.1	1057.5	1021.0	976.6	925.7	880.2	866.4	859.8
10°	1179.8	1170.8	1145.0	1109.0	1041.4	941.9	834.7	735.1	656.1	634.0	625.6
12.5°	1230.1	1222.3	1188.2	1121.7	973.6	793.2	629.1	505.7	429.0	409.8	404.5
15°	1290.0	1278.6	1231.3	1102.5	852.6	602.8	432.0	358.9	331.4	327.8	324.1
17.5°	1353.5	1335.0	1269.7	1033.6	689.6	428.4	333.7	312.7	300.7	297.1	295.4
20°	1411.6	1387.6	1292.4	929.3	515.3	333.7	299.0	285.2	274.4	270.2	267.8
22.5°	1469.7	1435.6	1292.4	787.3	386.4	296.0	274.4	261.9	249.3	243.8	240.9
25°	1530.3	1484.7	1269.7	629.1	311.0	271.4	251.0	237.3	226.5	219.9	217.5
27.5°	1589.0	1526.1	1217.5	479.3	276.9	249.9	229.5	216.3	206.1	201.3	201.3
30°	1644.7	1566.8	1144.4	363.7	254.6	228.9	209.7	198.3	188.2	183.4	184.0
32.5°	1720.3	1618.4	1066.5	298.4	235.4	209.1	191.8	180.9	172.0	168.4	168.4
35°	1825.1	1694.4	999.4	292.9	219.2	192.9	175.6	165.3	156.4	153.3	153.3
37.5°	1973.6	1817.3	964.0	328.9	206.1	178.6	162.4	151.6	143.2	140.8	140.2
40°	2157.0	1983.9	983.3	364.9	197.1	165.9	150.4	139.6	132.4	129.5	128.8
42.5°	2374.5	2189.4	1089.3	392.5	191.2	155.2	139.0	127.0	122.2	121.1	121.1
45°	2624.3	2415.2	1251.6	421.8	181.5	145.0	127.6	118.6	115.0	114.4	113.9
47.5°	2908.3	2663.3	1439.8	458.4	172.0	135.4	118.6	112.6	109.7	108.4	108.4
50°	3190.0	2913.2	1633.3	478.8	164.2	126.4	111.4	106.7	104.2	103.6	103.6
52.5°	3484.8	3170.2	1789.8	459.6	157.5	119.2	105.5	101.9	99.4	98.9	98.9
55°	3765.7	3378.1	1816.7	390.0	144.4	112.0	98.9	97.1	94.1	94.1	93.5
57.5°	4007.9	3482.3	1626.2	286.4	131.2	101.3	92.2	90.5	88.0	87.4	86.9
60°	4230.2	3452.4	1255.2	192.9	116.8	90.5	83.8	82.7	80.3	77.3	76.7
62.5°	4355.3	3320.6	858.6	125.9	102.5	79.1	74.3	73.7	68.3	62.3	61.1
65°	4402.7	3049.8	535.7	91.6	85.7	67.8	64.1	62.9	55.1	48.5	48.0
67.5°	4361.4	2604.0	270.2	72.5	67.8	56.3	52.7	52.7	47.4	41.3	40.7
70°	4195.9	1952.1	113.9	58.1	52.2	43.2	43.2	45.5	40.2	33.5	33.0
72.5°	3837.1	1313.3	60.5	44.4	38.9	30.5	35.4	37.1	31.8	25.2	25.2
75°	3050.4	801.0	41.9	33.0	24.6	21.5	27.0	28.2	21.5	16.8	16.2
77.5°	2086.3	460.1	28.2	21.0	15.6	12.6	18.6	17.4	11.4	7.8	8.4
80°	916.1	191.8	16.2	9.6	5.9	4.8	6.6	4.8	3.6	2.4	2.4
82.5°	107.2	44.9	5.9	3.6	2.4	1.2	0.6	0.0	0.0	0.0	0.0
85°	22.1	5.4	3.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	1.2	0.6	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)