

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: P959725

Luminaire Tested: **NAV-SB1B-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4728.3 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 IV - Medium
BUG Rating: B1 - U0 - G2

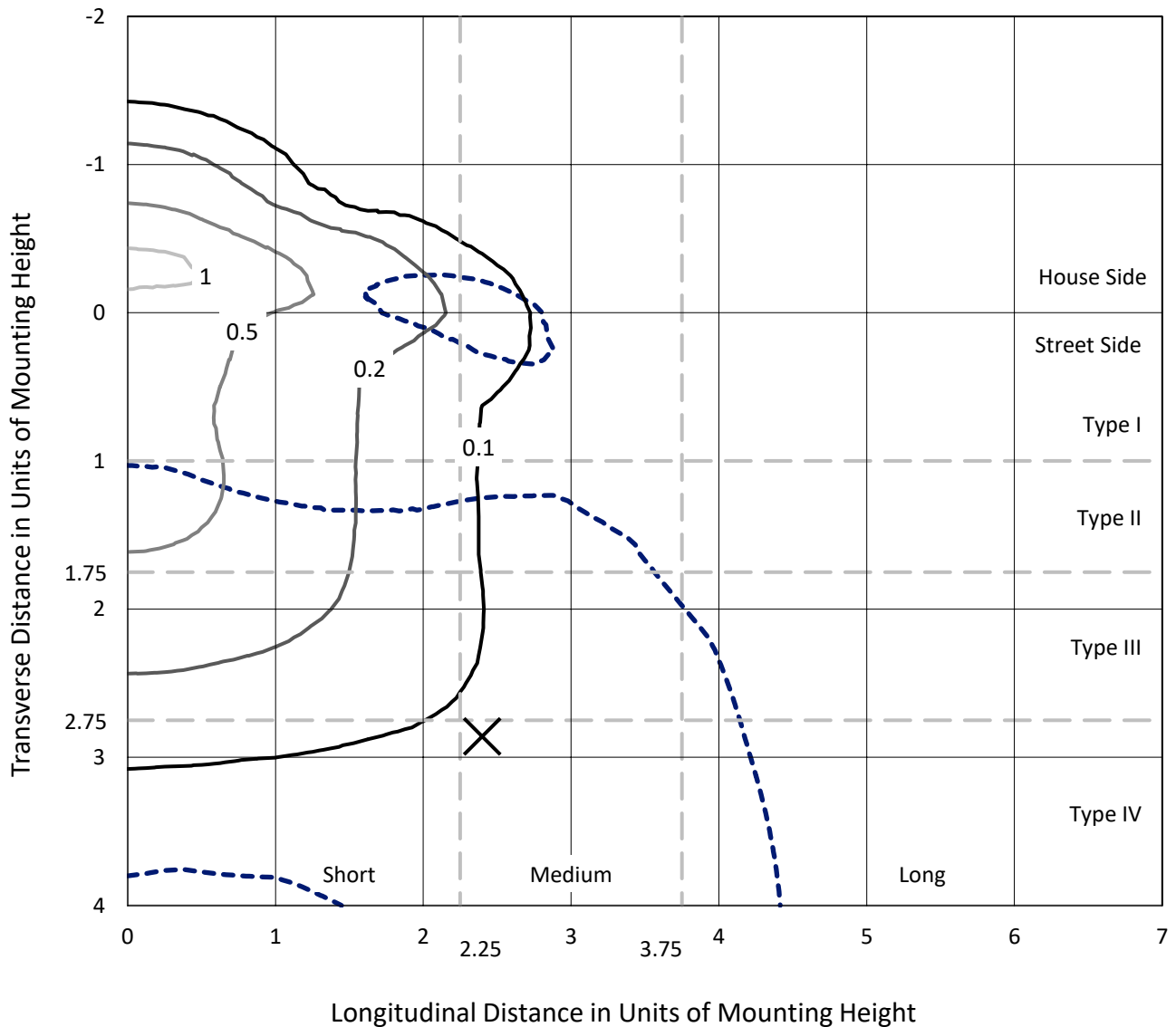
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

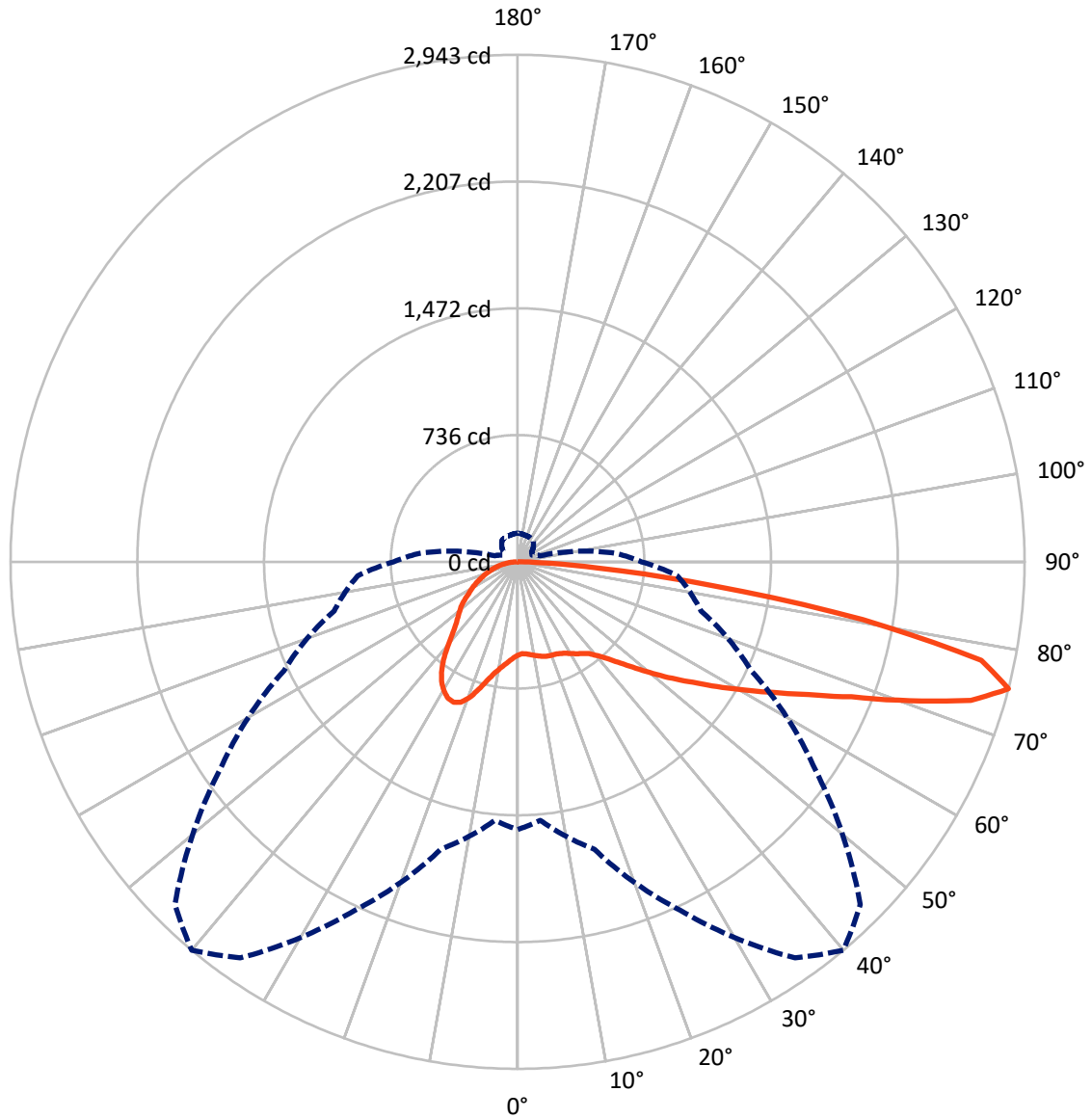
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.0	0.0	1465.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3263.3	0.0	3263.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	4728.3	0.0	4728.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	1.1
10°-20°	181.2	3.8
20°-30°	330.9	7.0
30°-40°	469.3	9.9
40°-50°	633.6	13.4
50°-60°	852.4	18.0
60°-70°	1081.9	22.9
70°-80°	981.9	20.8
80°-90°	143.1	3.0
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°	4728.3	100.0
0°-180°	4728.3	100.0

Coefficient of Utilization

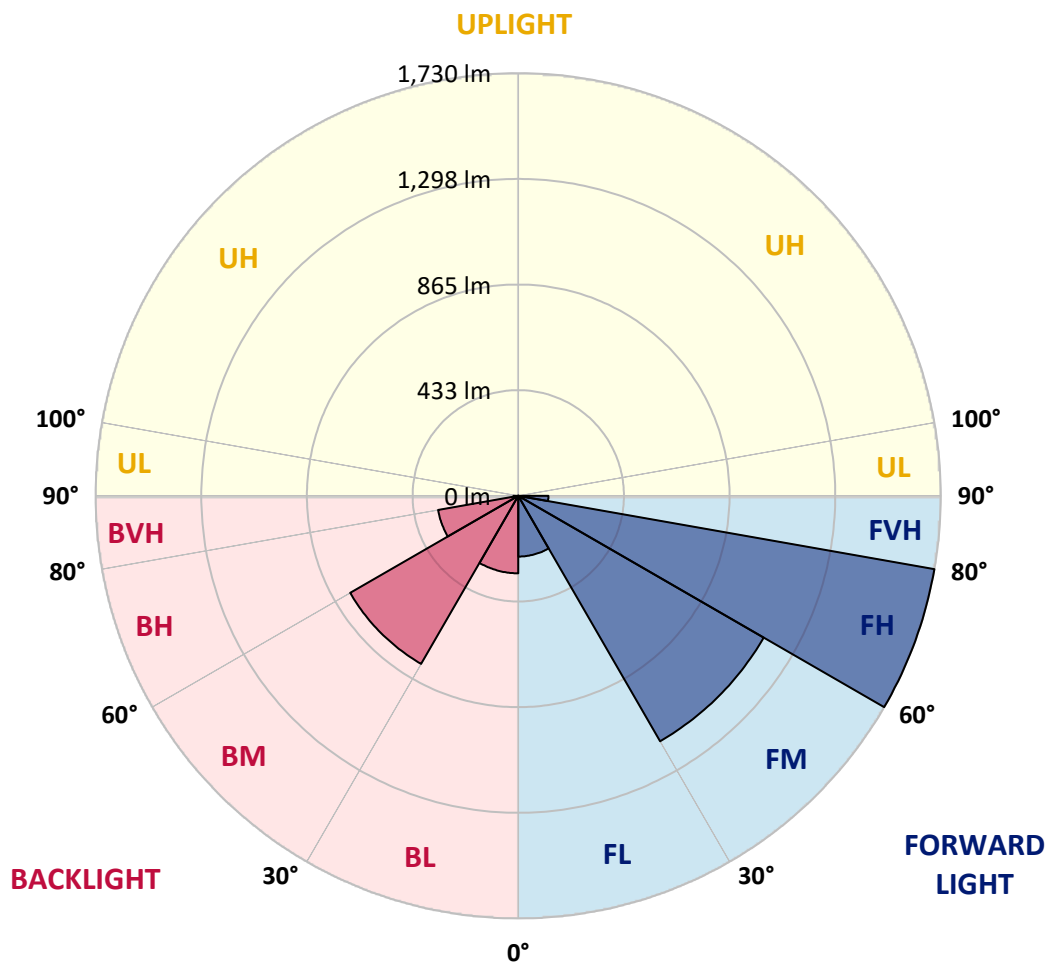


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.7	5.3			
FM (30°-60°)	1160.7	24.5			
FH (60°-80°)	1730.5	36.6			G1/1800
FVH (80°-90°)	123.4	2.6			G2/225
BL (0°-30°)	317.3	6.7	B1/500		
BM (30°-60°)	794.6	16.8	B1/1000		
BH (60°-80°)	333.3	7.0	B1/500		G1/500
BVH (80°-90°)	19.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7
2.5°	532.4	535.5	534.6	533.7	533.7	533.9	533.7	535.5	537.2	538.9	541.7
5°	537.9	540.9	539.5	538.2	537.2	536.9	536.2	536.0	536.9	539.2	542.9
7.5°	548.7	551.8	549.5	547.2	545.2	544.2	543.1	541.7	540.9	542.2	547.5
10°	560.8	563.8	561.0	557.0	553.7	552.5	551.4	550.0	549.0	549.7	555.4
12.5°	572.8	575.8	572.1	566.5	562.2	561.5	560.3	559.8	559.5	559.2	565.0
15°	584.0	586.6	581.8	575.3	570.8	569.5	568.3	569.1	570.3	571.7	578.3
17.5°	592.9	595.3	588.3	579.8	575.5	575.0	574.3	576.8	580.4	584.0	592.1
20°	600.9	603.4	594.4	582.8	577.8	577.8	578.1	583.3	588.3	593.9	604.9
22.5°	612.1	614.2	603.1	587.3	580.0	580.6	582.6	587.8	594.1	601.7	616.9
25°	628.9	630.5	616.9	595.8	587.6	589.1	590.8	593.4	599.4	608.1	628.7
27.5°	656.0	657.3	639.5	610.9	598.4	600.9	603.4	601.7	604.3	611.9	638.3
30°	694.1	694.9	672.4	634.5	616.6	618.0	618.4	611.2	605.9	611.9	645.0
32.5°	739.3	739.0	712.3	663.1	637.4	636.2	632.0	617.7	605.4	610.7	651.1
35°	809.2	806.6	771.9	703.2	661.0	653.3	643.3	624.9	607.9	609.4	656.3
37.5°	925.2	916.7	868.7	768.9	696.2	676.4	661.5	636.7	613.5	609.0	662.6
40°	1055.8	1045.0	992.3	859.0	748.9	717.0	693.2	653.5	622.5	611.2	671.9
42.5°	1210.8	1195.5	1138.8	965.0	815.6	769.4	733.6	674.9	635.7	618.4	684.4
45°	1401.2	1380.8	1300.5	1084.7	899.5	838.1	790.2	707.2	656.0	632.5	703.2
47.5°	1593.5	1598.5	1484.4	1221.6	1000.4	922.9	861.2	755.8	685.6	655.1	733.6
50°	1797.8	1801.3	1667.2	1373.3	1114.7	1018.6	941.0	810.3	726.7	687.2	778.9
52.5°	1957.3	1957.9	1833.2	1532.1	1233.9	1124.0	1026.9	872.5	774.4	729.8	839.4
55°	2057.2	2055.9	1949.5	1682.2	1370.8	1234.6	1122.3	943.2	832.6	779.9	915.3
57.5°	2129.6	2125.8	2029.8	1811.4	1516.7	1365.3	1230.1	1023.5	901.3	839.6	1015.5
60°	2157.2	2155.0	2084.2	1923.0	1670.2	1509.7	1354.4	1113.3	979.3	910.1	1144.1
62.5°	2167.8	2172.1	2137.6	2031.1	1834.4	1669.7	1491.2	1220.6	1067.1	989.8	1279.7
65°	2204.9	2212.7	2205.6	2172.6	2020.1	1857.1	1672.5	1348.2	1162.9	1075.3	1421.5
67.5°	2278.4	2286.2	2289.1	2341.8	2246.8	2090.5	1898.7	1507.3	1275.0	1164.1	1528.1
70°	2276.6	2274.4	2327.6	2476.5	2530.6	2413.8	2203.6	1702.8	1408.7	1237.9	1541.6
72.5°	2072.2	2054.2	2179.8	2475.0	2766.9	2751.3	2576.0	1955.1	1524.0	1246.9	1337.7
75°	1554.6	1506.4	1728.4	2230.5	2806.2	2943.0	2812.8	2111.6	1496.7	1101.7	930.9
77.5°	664.8	616.4	878.0	1651.2	2511.6	2751.1	2595.6	1842.2	1194.7	728.6	457.2
80°	174.0	173.8	265.4	748.6	1708.1	2031.5	1782.4	1189.7	682.6	260.3	126.2
82.5°	72.0	70.2	97.6	291.2	834.7	1140.1	930.4	530.6	246.5	70.5	41.9
85°	26.9	26.5	47.4	100.6	294.4	470.3	340.3	135.7	61.4	34.3	18.9
87.5°	7.5	7.3	10.2	34.8	71.8	108.9	58.2	22.3	17.3	13.5	5.5
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°	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7
2.5°	542.4	543.7	545.9	547.8	550.0	552.5	556.0	558.2	560.5	562.0	561.0
5°	544.7	547.5	553.2	559.0	565.8	572.1	579.3	584.6	588.9	590.1	590.6
7.5°	549.7	554.2	564.1	573.8	584.6	594.9	605.4	614.4	621.7	624.4	624.7
10°	558.5	564.5	578.3	592.1	606.4	622.2	635.7	648.8	659.1	663.3	663.6
12.5°	569.5	577.1	595.1	614.2	634.0	655.8	673.3	689.4	702.2	708.0	708.0
15°	583.8	593.6	616.6	642.3	671.4	701.7	724.1	741.8	756.1	763.1	762.6
17.5°	599.4	612.4	641.5	680.1	721.8	761.7	787.7	800.7	815.6	822.4	822.0
20°	614.4	630.5	672.1	728.3	783.7	826.0	847.2	850.6	851.7	852.4	854.4
22.5°	630.0	651.5	710.4	788.9	848.4	877.7	880.8	865.7	844.6	834.9	837.6
25°	647.0	675.6	760.7	855.9	904.0	907.6	884.5	847.9	808.0	789.8	792.4
27.5°	663.6	703.5	820.8	919.8	944.2	913.4	863.7	811.8	763.6	744.4	746.6
30°	680.1	735.3	887.2	975.8	962.5	899.0	830.9	773.0	724.5	704.2	706.4
32.5°	696.9	772.4	963.8	1016.2	959.3	868.7	790.0	729.3	686.6	665.3	668.1
35°	716.0	818.1	1036.3	1038.2	937.5	824.1	736.1	677.1	640.0	623.0	626.7
37.5°	740.8	876.0	1100.2	1043.8	899.3	758.6	669.1	615.4	584.9	577.1	582.6
40°	771.6	945.7	1149.1	1034.9	842.9	679.2	595.8	553.0	535.7	537.4	543.5
42.5°	811.8	1023.7	1183.5	1012.4	764.3	597.2	531.7	512.6	520.9	527.9	534.4
45°	864.0	1104.7	1204.8	974.1	675.6	527.7	493.7	498.4	504.6	505.3	510.3
47.5°	930.7	1186.7	1218.8	916.1	585.1	478.8	469.8	470.7	469.4	464.2	468.2
50°	1013.9	1266.5	1231.3	839.4	508.1	448.1	436.1	432.7	415.3	398.2	400.5
52.5°	1108.7	1339.7	1236.7	744.0	448.1	422.6	403.0	380.9	348.6	343.3	345.1
55°	1214.0	1407.4	1223.0	627.0	397.7	389.7	360.1	333.5	330.0	325.5	326.3
57.5°	1340.0	1480.4	1195.5	496.3	346.0	351.4	322.5	325.5	319.3	312.2	311.0
60°	1477.6	1555.8	1147.1	377.2	292.6	303.4	312.7	312.5	310.7	304.9	303.0
62.5°	1601.5	1605.6	1051.8	288.9	245.8	266.3	291.6	291.4	289.9	286.7	285.4
65°	1675.3	1598.0	892.8	227.4	207.2	235.7	263.1	265.1	265.4	265.1	265.1
67.5°	1662.2	1509.9	674.7	181.0	175.3	204.6	234.7	237.5	239.5	240.0	240.5
70°	1514.7	1316.6	439.8	144.4	147.0	177.3	207.9	210.6	212.4	214.4	215.5
72.5°	1180.7	968.0	251.7	116.8	122.2	153.8	181.3	184.6	185.6	189.3	190.9
75°	719.6	569.3	135.9	92.0	100.3	131.4	155.0	158.8	160.5	165.0	165.5
77.5°	342.0	246.5	77.5	71.8	80.8	107.3	130.9	135.2	130.4	132.9	130.9
80°	115.6	91.5	48.9	54.6	61.7	83.7	104.9	109.1	99.0	98.6	97.6
82.5°	40.4	37.1	31.1	36.4	39.9	60.0	79.2	84.8	73.7	73.5	70.0
85°	15.8	15.1	17.3	19.8	23.8	36.9	52.2	54.9	45.4	36.6	36.1
87.5°	3.3	3.5	4.3	4.5	7.3	12.8	18.9	23.1	18.3	15.6	14.2
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)