

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: P962415

Luminaire Tested: **NAV-SB2C-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-730-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15612.8 lumens
Efficiency: N/A
Efficacy: 154.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

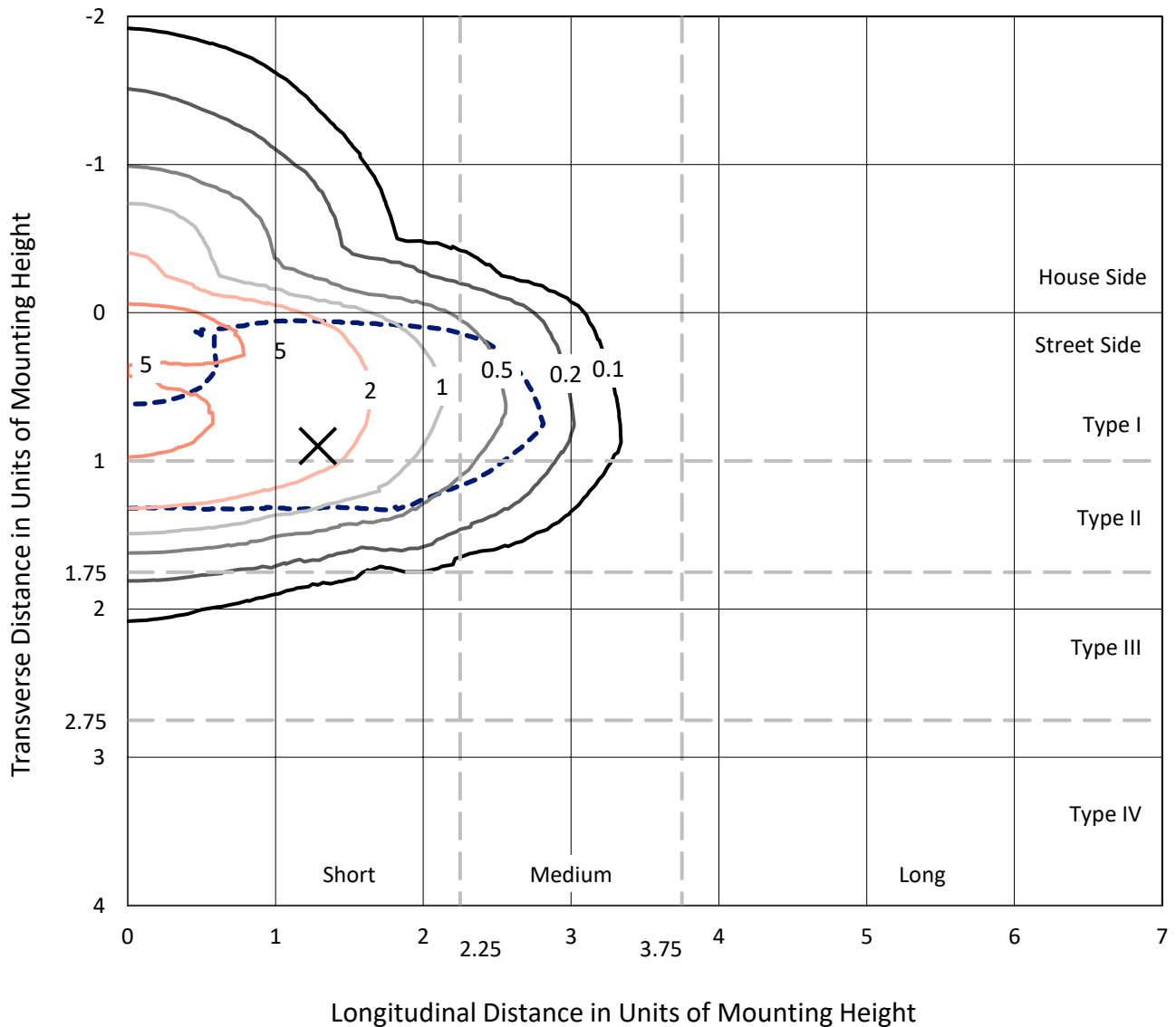
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

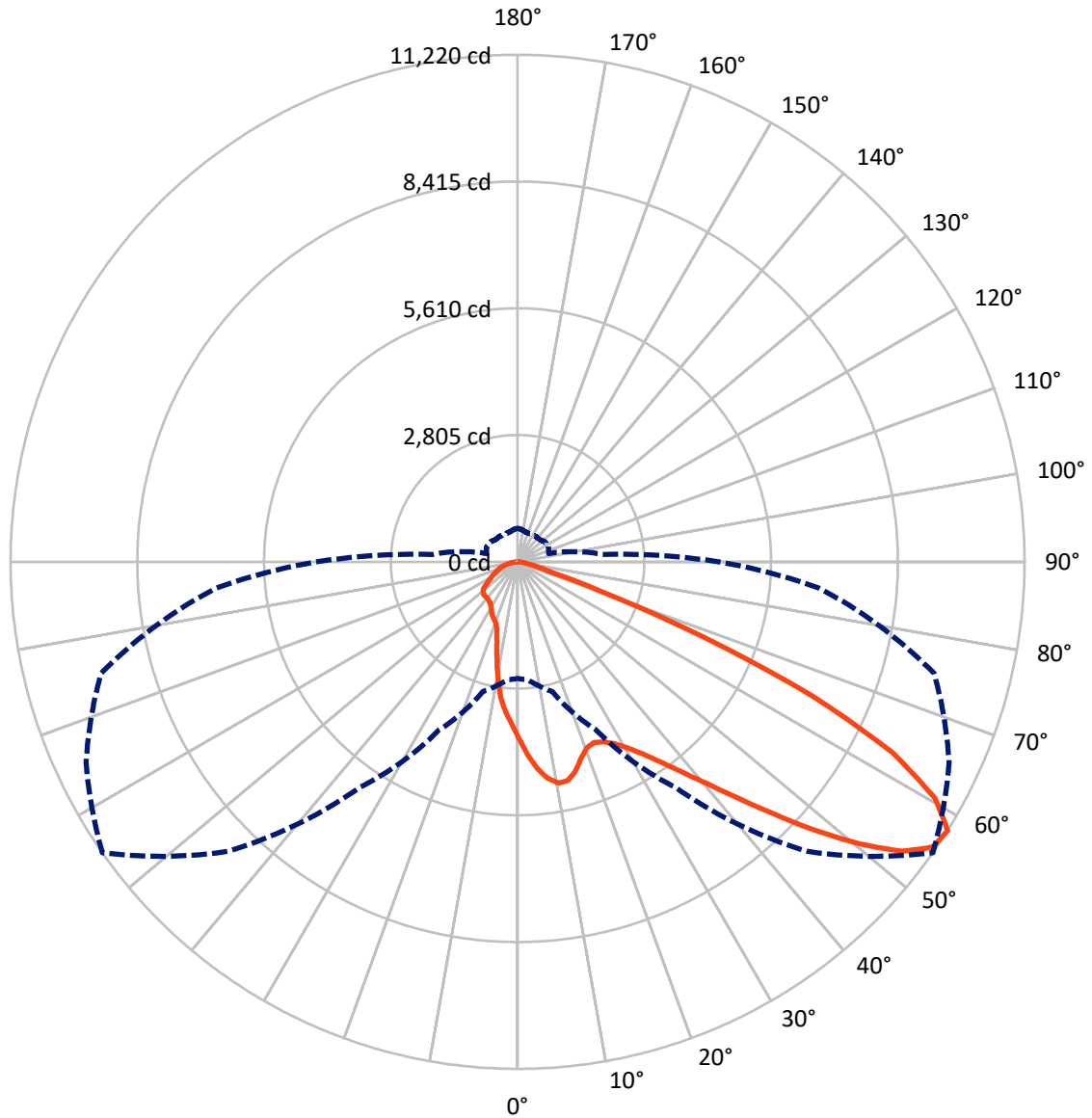
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2825.1	0.0	2825.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12787.7	0.0	12787.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	15612.8	0.0	15612.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	2.3
10°-20°	916.3	5.9
20°-30°	1462.1	9.4
30°-40°	2314.9	14.8
40°-50°	3543.2	22.7
50°-60°	3795.1	24.3
60°-70°	2387.5	15.3
70°-80°	706.0	4.5
80°-90°	124.8	0.8
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°	15612.8	100.0
0°-180°	15612.8	100.0

Coefficient of Utilization

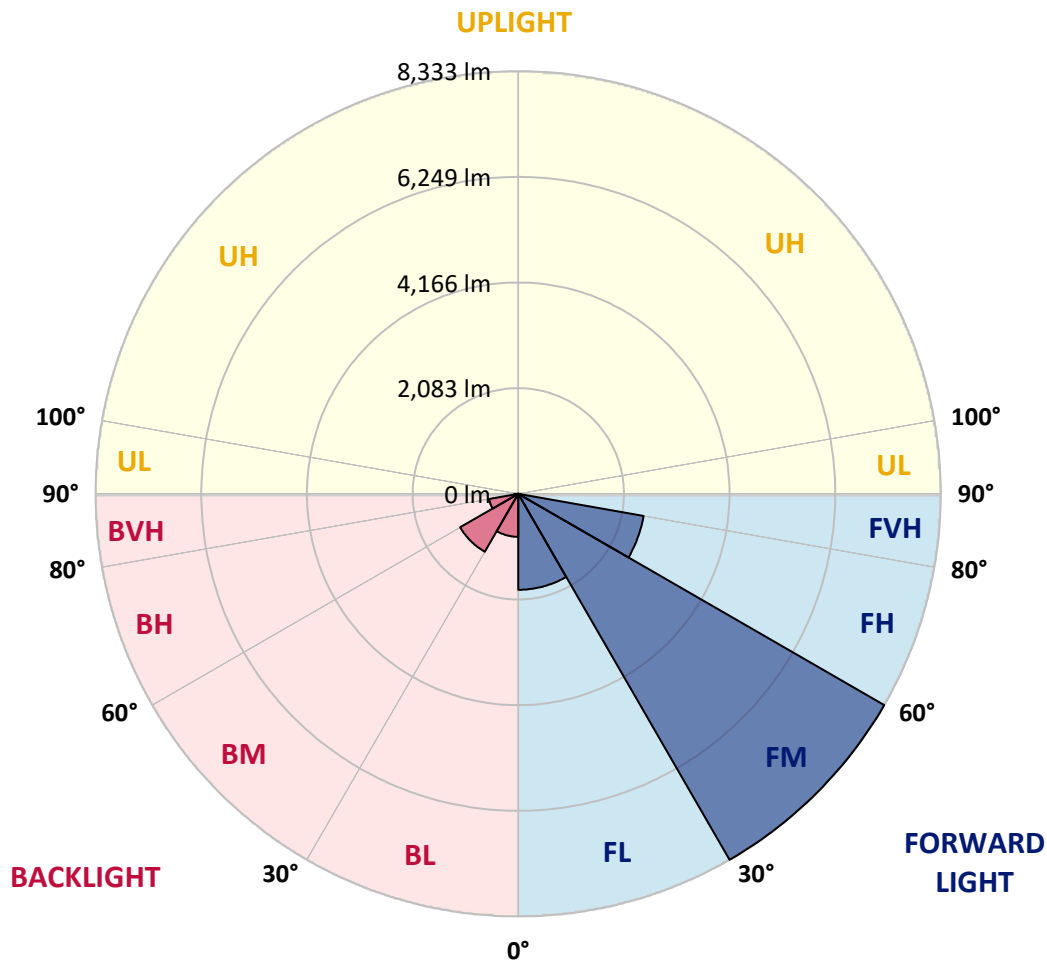


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.3	12.1			
FM (30°-60°)	8332.7	53.4			
FH (60°-80°)	2510.1	16.1			G2/5000
FVH (80°-90°)	52.7	0.3			G1/100
BL (0°-30°)	849.1	5.4	B2/1000		
BM (30°-60°)	1320.4	8.5	B2/2500		
BH (60°-80°)	583.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	72.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0
2.5°	4488.4	4485.1	4502.8	4442.3	4401.1	4345.5	4272.0	4178.4	4077.6	3971.0	3924.9
5°	4892.7	4864.4	4883.0	4837.8	4792.6	4708.6	4599.7	4447.2	4260.7	4048.4	3935.5
7.5°	4829.0	4809.6	4857.2	4897.6	4931.5	4920.9	4841.1	4681.3	4440.7	4132.4	3968.6
10°	4314.8	4293.0	4360.0	4499.6	4704.6	4883.0	4979.9	4880.6	4624.7	4224.4	4000.9
12.5°	3861.2	3850.7	3895.1	4008.1	4235.7	4578.0	4962.1	5054.9	4816.1	4333.4	4044.4
15°	3667.6	3654.6	3682.8	3740.1	3885.5	4204.2	4800.7	5174.4	5004.0	4459.3	4113.8
17.5°	3624.7	3610.2	3622.4	3652.2	3745.8	3988.8	4556.9	5233.3	5200.2	4599.7	4172.0
20°	3703.8	3691.7	3693.4	3691.7	3757.1	3950.0	4387.4	5210.7	5371.3	4728.8	4228.4
22.5°	3895.1	3874.9	3875.7	3833.0	3868.5	4017.8	4343.0	5150.2	5523.8	4841.9	4271.2
25°	4206.7	4170.3	4177.6	4068.6	4059.0	4169.5	4412.4	5103.4	5675.6	4932.2	4279.3
27.5°	4632.8	4591.7	4569.9	4407.6	4330.1	4385.1	4553.7	5119.5	5819.2	5010.5	4259.1
30°	5165.5	5115.5	5071.1	4841.1	4700.6	4680.5	4773.2	5226.1	5988.8	5092.8	4224.4
32.5°	5818.4	5760.3	5679.6	5374.6	5176.8	5071.1	5057.3	5415.7	6187.3	5197.8	4206.7
35°	6595.7	6519.8	6405.2	6010.5	5760.3	5544.0	5431.9	5689.4	6459.3	5355.9	4226.8
37.5°	7396.4	7310.8	7205.9	6736.1	6428.6	6109.8	5888.6	6060.6	6821.7	5570.7	4280.1
40°	8134.8	8038.8	7941.2	7523.1	7192.9	6808.8	6448.0	6530.3	7264.8	5827.3	4370.5
42.5°	8570.7	8499.7	8462.5	8236.6	7981.5	7591.7	7143.7	7087.3	7762.7	6122.7	4473.8
45°	8551.4	8522.3	8636.9	8730.5	8670.0	8453.7	7958.9	7703.1	8262.4	6378.6	4569.0
47.5°	8094.5	8113.9	8369.7	8896.0	9127.6	9240.6	8887.1	8307.6	8696.6	6569.8	4611.8
50°	6851.5	6867.7	7460.2	8594.9	9245.4	9882.2	9808.0	8897.6	9033.2	6686.9	4602.1
52.5°	5867.7	5878.2	6132.4	7702.3	8856.4	10205.1	10637.8	9453.7	9279.3	6719.2	4548.0
55°	4419.7	4456.1	4740.9	6042.8	7844.3	9949.3	11143.0	10026.8	9435.1	6722.5	4491.5
57.5°	2582.0	2621.5	2973.4	4101.7	6096.9	9057.4	11219.6	10535.2	9540.8	6696.6	4457.6
60°	1264.7	1281.7	1435.0	2155.8	3759.5	7339.0	10603.0	10781.4	9599.7	6682.9	4456.1
62.5°	852.3	849.9	856.4	1063.7	1852.3	4715.1	9318.1	10350.3	9568.3	6630.4	4439.9
65°	732.9	724.0	699.8	746.6	959.6	2156.6	7199.4	9063.9	9328.5	6498.8	4329.3
67.5°	633.6	634.4	635.2	620.6	685.2	995.2	4399.5	7139.7	8468.2	5875.7	3903.2
70°	524.6	531.9	535.2	535.2	558.5	652.9	1878.1	4893.6	6679.6	4607.0	3143.7
72.5°	477.9	462.5	464.1	456.0	456.0	497.2	756.2	2774.1	4208.2	2591.6	1918.5
75°	389.8	399.5	401.1	395.4	376.9	379.4	448.7	1163.9	1800.6	1075.0	948.3
77.5°	336.6	336.6	339.8	335.8	321.2	284.1	299.4	451.2	612.6	440.6	473.8
80°	270.4	269.6	283.3	291.4	268.8	209.8	191.3	249.4	272.0	193.7	246.2
82.5°	131.6	139.6	194.5	221.9	204.2	151.7	117.1	155.0	145.2	85.6	110.6
85°	76.7	72.7	87.1	123.5	117.1	83.9	56.5	80.7	75.8	43.6	44.4
87.5°	24.2	22.5	17.7	41.9	33.9	23.4	15.4	23.4	21.0	9.6	9.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0	3912.0
2.5°	3867.6	3772.4	3678.0	3591.6	3539.2	3505.3	3471.4	3433.4	3418.9	3397.2
5°	3828.9	3644.9	3481.1	3339.9	3211.5	3110.6	3008.9	2926.6	2889.5	2914.5
7.5°	3806.3	3539.9	3287.4	3028.3	2778.9	2579.5	2406.0	2284.1	2229.3	2243.0
10°	3786.1	3421.3	3036.4	2627.2	2268.7	2021.8	1844.3	1751.4	1716.8	1723.9
12.5°	3767.6	3288.2	2733.7	2195.3	1814.4	1651.4	1600.5	1601.3	1607.7	1612.6
15°	3764.3	3127.6	2395.5	1817.6	1569.1	1558.5	1613.5	1648.1	1666.6	1672.3
17.5°	3759.5	2935.5	2050.8	1560.2	1509.3	1580.3	1631.2	1653.7	1668.3	1669.1
20°	3740.1	2691.8	1732.9	1437.5	1496.4	1557.7	1589.2	1607.0	1619.1	1623.1
22.5°	3680.5	2420.5	1485.1	1382.6	1444.7	1493.9	1531.0	1551.2	1558.5	1563.3
25°	3573.0	2117.0	1313.9	1330.1	1372.9	1435.0	1464.9	1468.9	1466.5	1473.7
27.5°	3432.6	1791.8	1207.4	1259.1	1313.9	1367.2	1383.3	1381.0	1376.2	1384.2
30°	3263.2	1499.6	1139.6	1179.2	1254.3	1302.7	1317.2	1311.6	1301.9	1310.8
32.5°	3083.9	1260.8	1083.9	1123.5	1205.0	1252.7	1267.2	1261.5	1254.3	1261.5
35°	2916.9	1093.7	1032.3	1086.4	1166.2	1213.1	1231.6	1232.5	1232.5	1241.4
37.5°	2763.5	996.0	989.5	1062.9	1139.6	1181.6	1208.3	1209.8	1175.2	1177.6
40°	2621.5	954.8	970.2	1047.7	1113.8	1154.1	1155.8	1065.4	1001.6	1000.0
42.5°	2505.3	946.7	975.8	1046.0	1095.2	1096.9	983.1	912.9	895.1	895.8
45°	2396.3	944.3	988.7	1046.0	1067.8	947.5	870.8	852.3	853.9	860.4
47.5°	2274.5	934.6	991.2	1031.5	988.7	842.7	820.0	811.9	808.7	810.4
50°	2141.2	900.0	960.4	1002.4	853.1	797.4	769.2	766.8	770.8	773.3
52.5°	2000.8	843.5	908.0	950.0	791.0	757.9	726.4	732.1	749.8	755.4
55°	1908.9	777.3	838.6	845.0	747.4	720.8	694.1	707.0	740.2	750.6
57.5°	1884.6	707.0	759.5	752.2	691.7	688.5	672.3	683.6	725.6	741.0
60°	1877.3	644.1	682.0	676.4	637.7	652.9	648.9	654.6	669.1	673.9
62.5°	1820.8	594.0	612.6	604.5	589.2	615.8	625.6	613.4	624.7	630.4
65°	1677.2	553.7	544.8	539.2	545.6	569.8	589.2	565.0	575.4	591.6
67.5°	1439.9	498.8	474.6	481.0	501.2	514.1	539.2	511.7	520.6	548.1
70°	1164.7	429.4	407.5	426.2	445.6	472.1	476.2	457.7	478.6	509.3
72.5°	824.1	359.2	343.8	381.8	388.3	422.9	414.0	405.2	434.2	444.7
75°	571.4	289.8	280.8	310.0	333.3	363.2	356.7	367.3	428.6	433.4
77.5°	361.6	225.2	219.6	238.1	270.4	303.5	314.0	433.4	732.1	761.1
80°	209.8	167.9	161.4	176.0	204.2	234.8	302.7	531.9	482.7	477.0
82.5°	117.1	115.4	107.3	111.4	136.4	169.5	427.7	374.5	304.3	314.0
85°	54.8	67.8	58.1	55.7	76.7	198.5	285.7	213.9	142.1	138.8
87.5°	14.6	12.9	12.9	14.6	32.3	171.1	113.8	91.2	54.1	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)