

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: P961826

Luminaire Tested: **NAV-SB2B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961826
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-SB2B-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9697.5 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

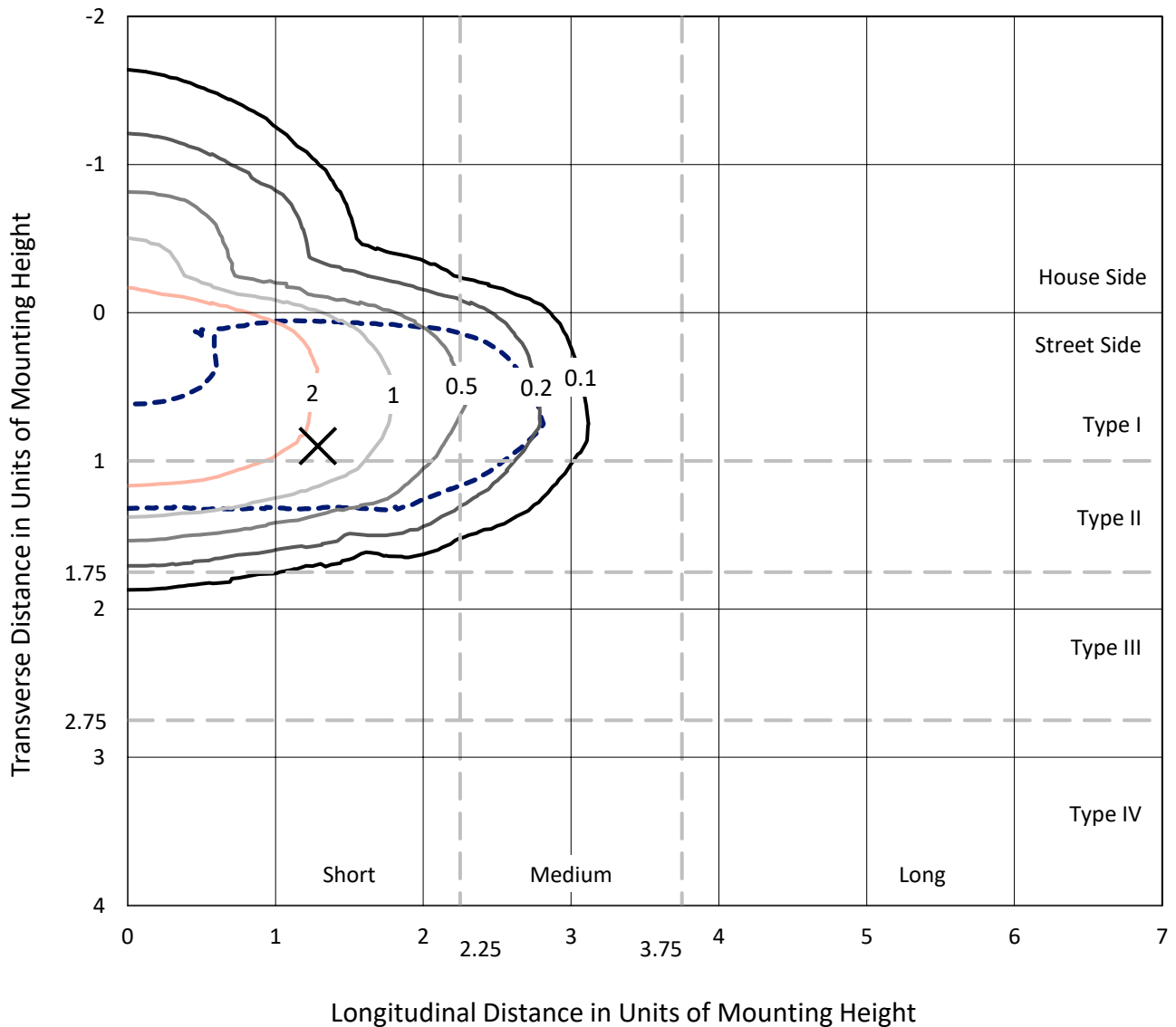
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

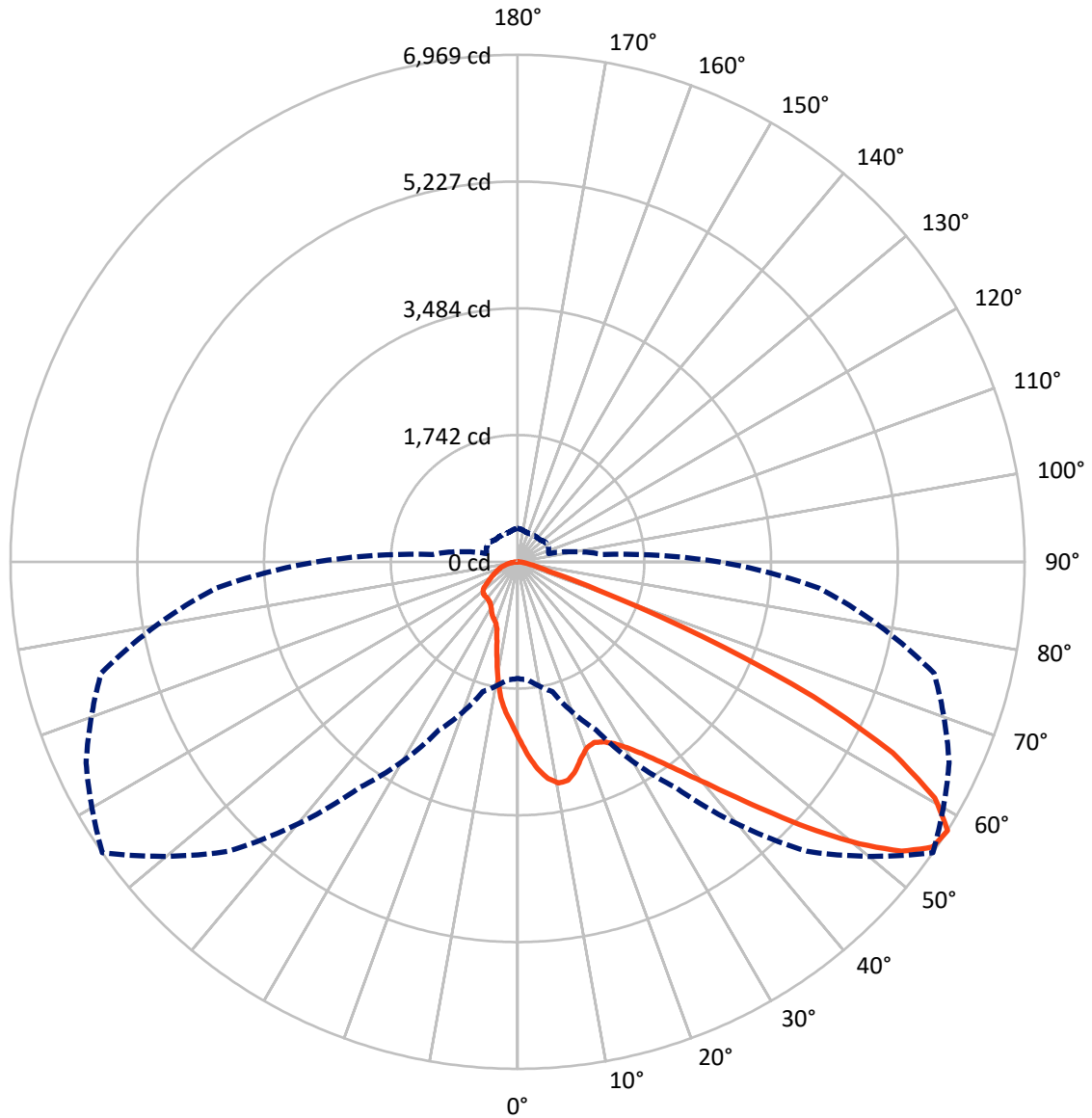
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1754.7	0.0	1754.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7942.8	0.0	7942.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	9697.5	0.0	9697.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	2.3
10°-20°	569.1	5.9
20°-30°	908.2	9.4
30°-40°	1437.8	14.8
40°-50°	2200.7	22.7
50°-60°	2357.2	24.3
60°-70°	1482.9	15.3
70°-80°	438.5	4.5
80°-90°	77.5	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°	9697.5	100.0
0°-180°	9697.5	100.0

Coefficient of Utilization



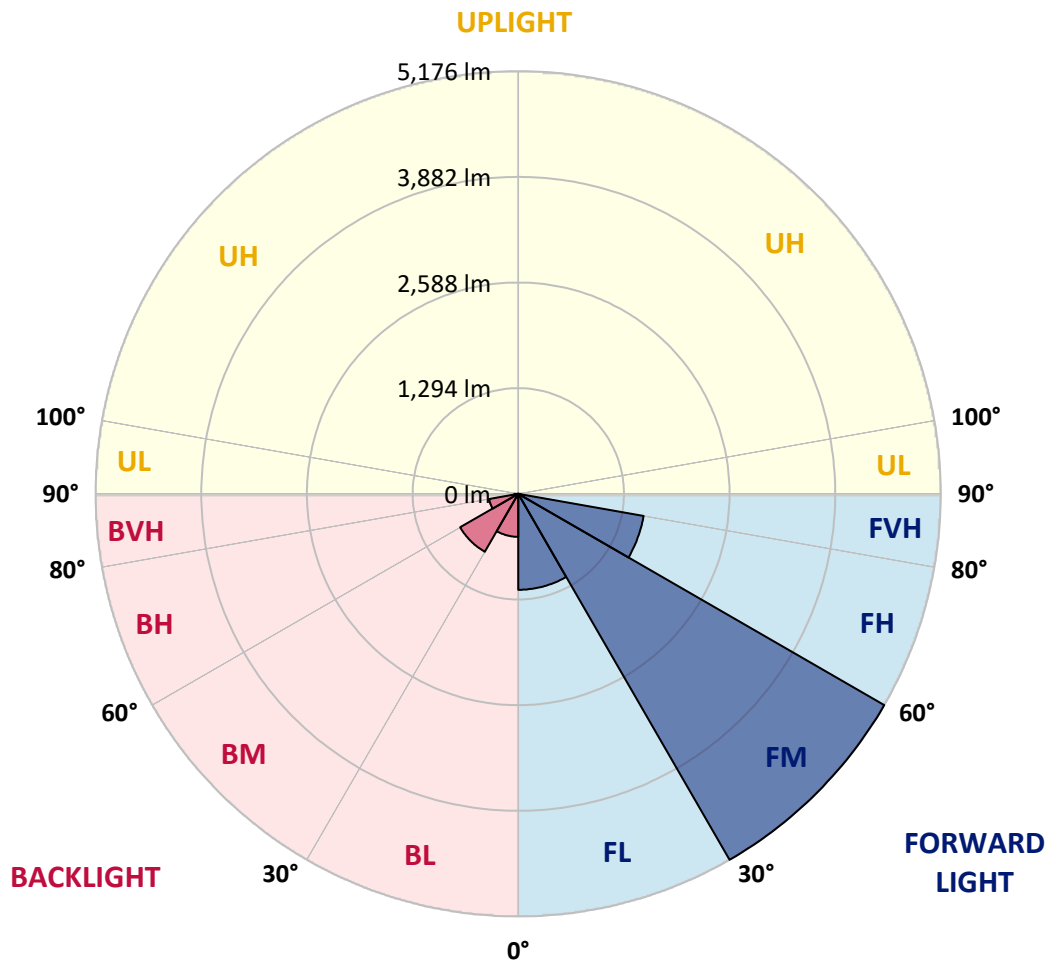
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.3	12.1			
FM (30°-60°)	5175.6	53.4			
FH (60°-80°)	1559.1	16.1			G1/1800
FVH (80°-90°)	32.8	0.3			G1/100
BL (0°-30°)	527.4	5.4	B2/1000		
BM (30°-60°)	820.1	8.5	B1/1000		
BH (60°-80°)	362.4	3.7	B1/500		G1/500
BVH (80°-90°)	44.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9
2.5°	2787.8	2785.8	2796.8	2759.3	2733.7	2699.1	2653.5	2595.3	2532.7	2466.5	2437.9
5°	3039.0	3021.4	3033.0	3004.9	2976.8	2924.7	2857.0	2762.3	2646.4	2514.6	2444.4
7.5°	2999.4	2987.4	3016.9	3042.0	3063.0	3056.5	3006.9	2907.6	2758.3	2566.7	2465.0
10°	2680.1	2666.5	2708.2	2794.9	2922.2	3033.0	3093.1	3031.4	2872.6	2623.9	2485.0
12.5°	2398.3	2391.7	2419.3	2489.5	2630.9	2843.5	3082.1	3139.8	2991.4	2691.5	2512.1
15°	2278.0	2270.0	2287.5	2323.1	2413.4	2611.4	2981.8	3214.0	3108.2	2769.8	2555.2
17.5°	2251.4	2242.4	2249.9	2268.4	2326.6	2477.5	2830.4	3250.6	3230.0	2857.0	2591.3
20°	2300.5	2293.0	2294.1	2293.0	2333.6	2453.4	2725.2	3236.5	3336.3	2937.2	2626.4
22.5°	2419.3	2406.8	2407.3	2380.8	2402.8	2495.6	2697.6	3198.9	3431.0	3007.5	2653.0
25°	2612.8	2590.3	2594.8	2527.1	2521.1	2589.8	2740.7	3169.8	3525.3	3063.5	2658.0
27.5°	2877.6	2852.0	2838.4	2737.7	2689.6	2723.6	2828.4	3179.9	3614.5	3112.2	2645.4
30°	3208.5	3177.4	3149.8	3006.9	2919.7	2907.1	2964.8	3246.1	3719.7	3163.4	2623.9
32.5°	3614.0	3577.9	3527.7	3338.3	3215.4	3149.8	3141.2	3363.8	3843.1	3228.4	2612.8
35°	4096.7	4049.7	3978.4	3733.4	3577.9	3443.6	3373.9	3533.8	4012.1	3326.7	2625.4
37.5°	4594.0	4541.0	4475.8	4183.9	3993.0	3795.0	3657.6	3764.4	4237.1	3460.1	2658.4
40°	5052.7	4993.1	4932.5	4672.8	4467.8	4229.2	4005.0	4056.1	4512.4	3619.5	2714.6
42.5°	5323.4	5279.4	5256.3	5116.0	4957.5	4715.4	4437.1	4402.1	4821.7	3803.0	2778.8
45°	5311.4	5293.4	5364.6	5422.8	5385.1	5250.8	4943.5	4784.6	5132.0	3961.9	2837.9
47.5°	5027.7	5039.7	5198.7	5525.6	5669.4	5739.6	5520.0	5160.1	5401.6	4080.7	2864.6
50°	4255.7	4265.7	4633.7	5338.5	5742.6	6138.1	6092.0	5526.5	5610.7	4153.4	2858.5
52.5°	3644.6	3651.0	3809.0	4784.1	5501.0	6338.7	6607.4	5871.9	5763.7	4173.5	2824.9
55°	2745.3	2767.8	2944.7	3753.3	4872.3	6179.7	6921.2	6227.9	5860.4	4175.4	2789.8
57.5°	1603.7	1628.3	1846.8	2547.7	3787.0	5625.8	6968.8	6543.7	5926.0	4159.4	2768.7
60°	785.6	796.1	891.3	1339.1	2335.2	4558.5	6585.8	6696.6	5962.6	4150.9	2767.8
62.5°	529.4	527.9	531.9	660.7	1150.6	2928.7	5787.7	6428.9	5943.2	4118.3	2757.8
65°	455.2	449.7	434.6	463.7	596.0	1339.5	4471.8	5629.8	5794.2	4036.7	2689.1
67.5°	393.5	394.0	394.5	385.5	425.6	618.1	2732.6	4434.7	5259.8	3649.6	2424.3
70°	325.8	330.4	332.4	332.4	347.0	405.6	1166.6	3039.5	4148.9	2861.5	1952.6
72.5°	296.7	287.2	288.2	283.2	283.2	308.8	469.8	1723.0	2613.9	1609.8	1191.7
75°	242.1	248.2	249.2	245.7	234.1	235.6	278.7	722.9	1118.5	667.8	589.1
77.5°	209.1	209.1	211.0	208.6	199.6	176.5	186.0	280.2	380.5	273.7	294.3
80°	167.9	167.5	176.0	181.0	167.0	130.4	118.8	154.9	168.9	120.3	152.9
82.5°	81.7	86.7	120.8	137.9	126.8	94.2	72.7	96.2	90.2	53.1	68.7
85°	47.7	45.1	54.1	76.7	72.7	52.2	35.1	50.1	47.2	27.1	27.6
87.5°	15.1	14.0	11.1	26.0	21.0	14.6	9.5	14.6	13.0	6.0	6.0
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°	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9	2429.9
2.5°	2402.3	2343.1	2284.5	2230.9	2198.3	2177.2	2156.2	2132.6	2123.6	2110.1
5°	2378.2	2263.9	2162.1	2074.5	1994.8	1932.1	1868.9	1817.7	1794.7	1810.3
7.5°	2364.2	2198.7	2041.9	1881.0	1726.0	1602.2	1494.4	1418.7	1384.7	1393.2
10°	2351.7	2125.1	1886.0	1631.8	1409.2	1255.8	1145.5	1087.8	1066.3	1070.8
12.5°	2340.2	2042.4	1697.9	1363.6	1127.0	1025.7	994.1	994.7	998.7	1001.6
15°	2338.1	1942.6	1487.9	1128.9	974.6	968.0	1002.1	1023.7	1035.2	1038.7
17.5°	2335.2	1823.3	1273.9	969.0	937.5	981.5	1013.2	1027.2	1036.2	1036.7
20°	2323.1	1671.9	1076.4	892.9	929.5	967.5	987.1	998.1	1005.6	1008.2
22.5°	2286.1	1503.5	922.4	858.7	897.4	927.9	951.0	963.5	968.0	971.1
25°	2219.3	1315.0	816.1	826.2	852.7	891.3	909.9	912.4	910.9	915.4
27.5°	2132.1	1112.9	750.0	782.1	816.1	849.2	859.3	857.7	854.7	859.8
30°	2026.8	931.4	707.9	732.5	779.0	809.1	818.2	814.7	808.6	814.2
32.5°	1915.5	783.1	673.2	697.8	748.5	778.1	787.1	783.5	779.0	783.5
35°	1811.8	679.3	641.1	674.8	724.4	753.5	765.1	765.5	765.5	771.0
37.5°	1716.5	618.6	614.6	660.2	707.9	733.9	750.5	751.4	729.9	731.4
40°	1628.3	593.1	602.6	650.7	691.8	716.9	717.9	661.7	622.2	621.2
42.5°	1556.1	588.0	606.1	649.7	680.3	681.3	610.6	567.0	556.0	556.5
45°	1488.4	586.5	614.1	649.7	663.3	588.6	540.9	529.4	530.4	534.4
47.5°	1412.8	580.6	615.6	640.7	614.1	523.4	509.3	504.3	502.4	503.3
50°	1330.0	558.9	596.6	622.6	529.9	495.3	477.8	476.2	478.8	480.2
52.5°	1242.8	523.9	564.0	590.1	491.3	470.8	451.2	454.7	465.8	469.2
55°	1185.6	482.8	520.9	524.9	464.2	447.7	431.1	439.1	459.7	466.3
57.5°	1170.6	439.1	471.7	467.2	429.7	427.6	417.6	424.7	450.7	460.2
60°	1166.0	400.1	423.6	420.1	396.1	405.6	403.0	406.6	415.6	418.6
62.5°	1131.0	369.0	380.5	375.5	365.9	382.5	388.5	381.0	388.1	391.5
65°	1041.7	343.9	338.4	334.9	338.9	353.9	365.9	351.0	357.4	367.5
67.5°	894.3	309.9	294.8	298.8	311.3	319.4	334.9	317.9	323.4	340.4
70°	723.4	266.7	253.2	264.7	276.8	293.3	295.8	284.2	297.2	316.3
72.5°	511.9	223.0	213.6	237.1	241.2	262.7	257.2	251.6	269.7	276.2
75°	355.0	180.0	174.5	192.5	207.0	225.6	221.6	228.1	266.2	269.2
77.5°	224.6	139.9	136.3	147.9	167.9	188.5	195.1	269.2	454.7	472.7
80°	130.4	104.2	100.2	109.3	126.8	145.9	188.0	330.4	299.8	296.3
82.5°	72.7	71.6	66.6	69.2	84.8	105.3	265.7	232.6	189.0	195.1
85°	34.1	42.1	36.1	34.5	47.7	123.3	177.4	132.8	88.3	86.2
87.5°	9.0	8.0	8.0	9.0	20.1	106.3	70.7	56.7	33.6	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)