

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: P962356

Luminaire Tested: **NAV-SB2C-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12604.4 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

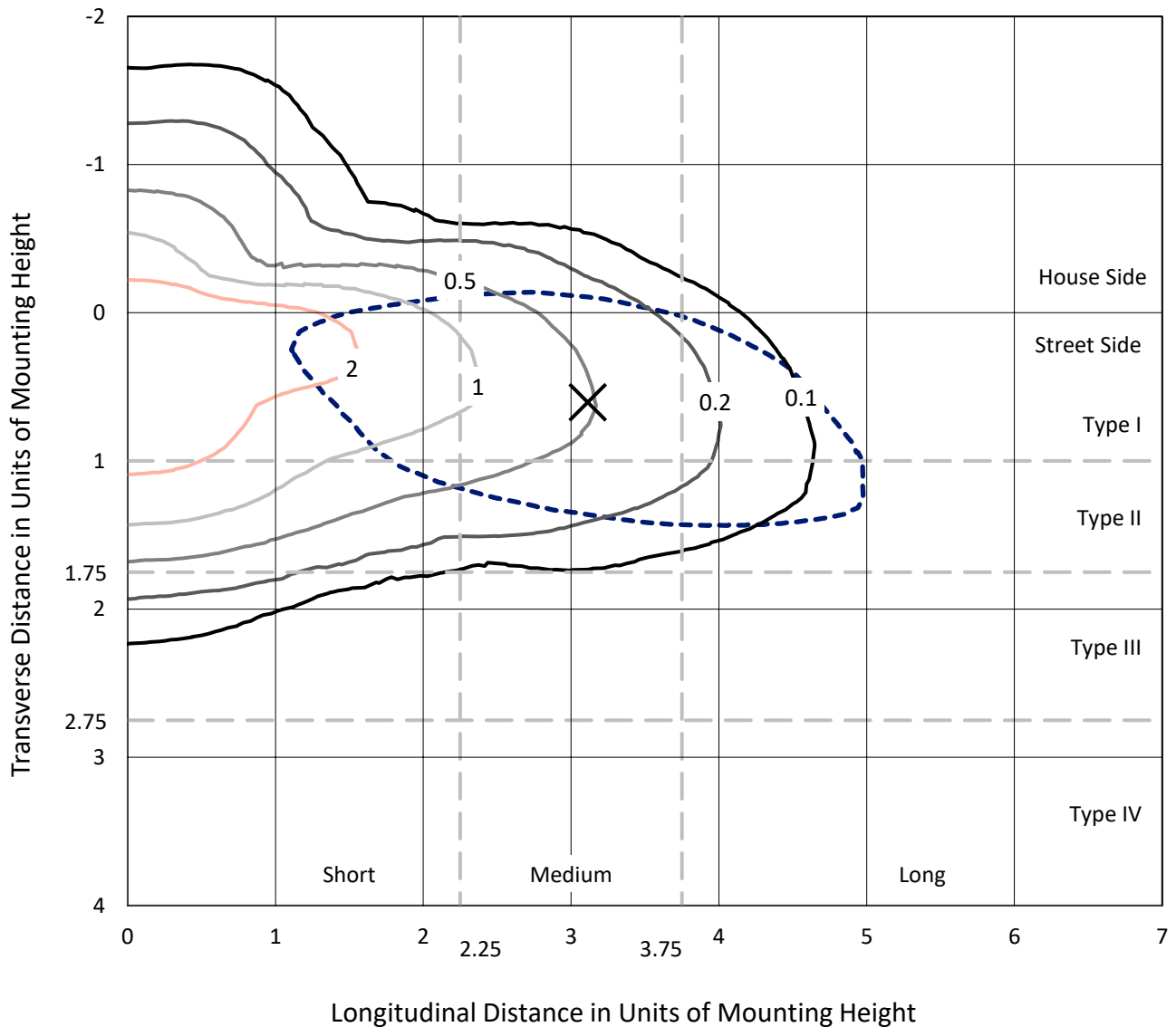
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

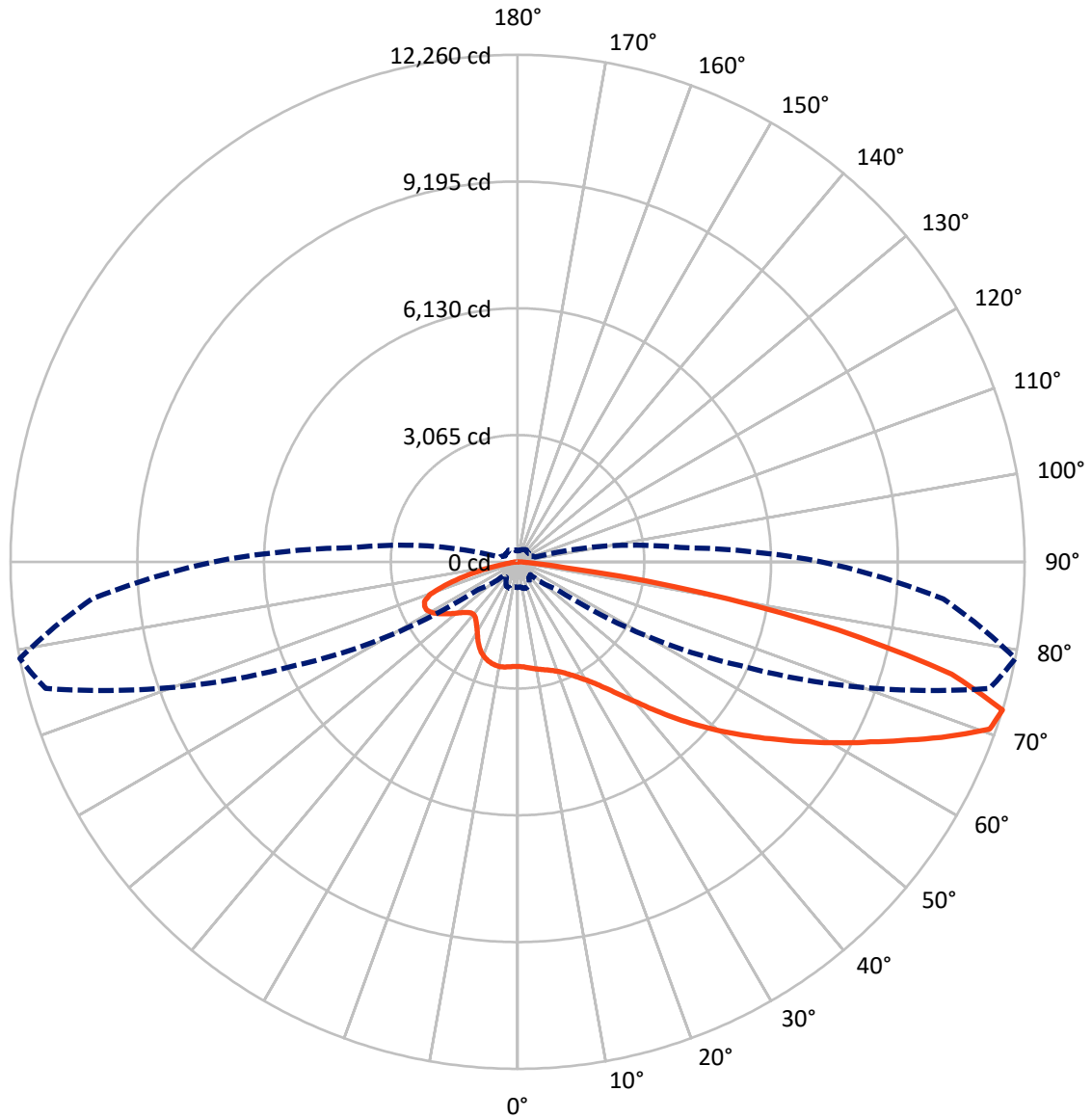
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2773.7	0.0	2773.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9830.8	0.0	9830.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	12604.4	0.0	12604.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.8
10°-20°	600.5	4.8
20°-30°	968.9	7.7
30°-40°	1454.2	11.5
40°-50°	2062.9	16.4
50°-60°	2605.1	20.7
60°-70°	2645.9	21.0
70°-80°	1803.3	14.3
80°-90°	234.0	1.9
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°	12604.4	100.0
0°-180°	12604.4	100.0

Coefficient of Utilization

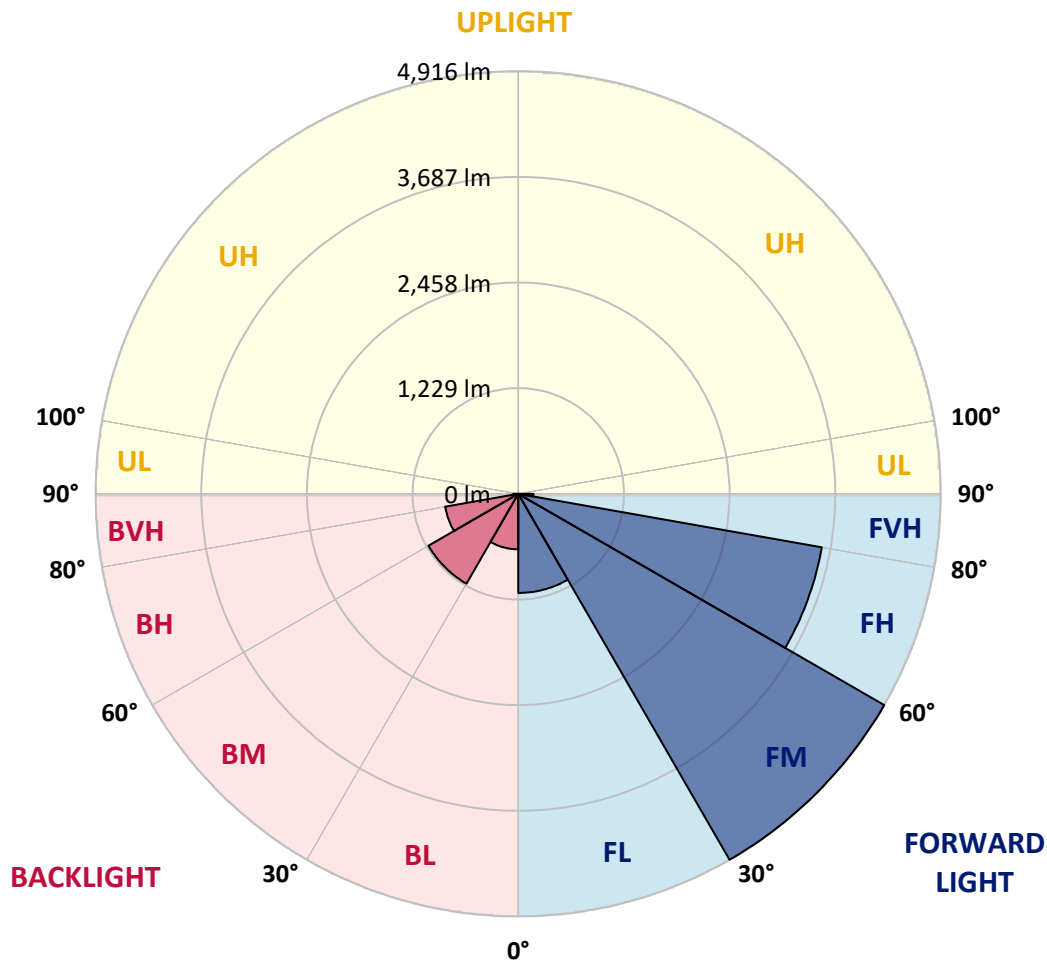


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1153.0	9.1			
FM (30°-60°)	4916.0	39.0			
FH (60°-80°)	3585.5	28.4			G2/5000
FVH (80°-90°)	176.2	1.4			G2/225
BL (0°-30°)	646.1	5.1	B2/1000		
BM (30°-60°)	1206.3	9.6	B2/2500		
BH (60°-80°)	863.6	6.9	B2/1000		G2/1000
BVH (80°-90°)	57.7	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2
2.5°	2531.5	2519.6	2526.9	2524.3	2527.5	2531.5	2532.9	2534.9	2541.6	2540.9	2540.3
5°	2526.2	2514.2	2524.3	2520.9	2529.6	2538.9	2546.9	2554.2	2564.9	2569.6	2562.9
7.5°	2514.8	2506.8	2516.9	2526.9	2542.9	2556.9	2568.2	2584.8	2600.2	2602.9	2607.6
10°	2448.8	2442.9	2466.3	2492.2	2536.3	2574.2	2598.9	2618.3	2634.9	2637.5	2644.2
12.5°	2380.3	2372.9	2398.9	2434.2	2505.5	2574.2	2626.3	2651.6	2666.2	2674.9	2684.9
15°	2368.9	2362.8	2377.5	2408.2	2467.6	2556.2	2644.9	2691.5	2704.3	2714.2	2718.2
17.5°	2423.5	2412.2	2418.2	2428.8	2463.6	2539.5	2659.6	2736.9	2756.2	2766.9	2766.9
20°	2550.2	2534.2	2524.9	2503.6	2497.5	2542.2	2658.2	2791.6	2816.9	2830.2	2833.6
22.5°	2718.9	2708.3	2688.3	2634.2	2575.5	2574.9	2683.6	2861.6	2909.0	2921.6	2913.6
25°	2922.9	2906.9	2881.6	2808.2	2695.5	2639.6	2726.2	2950.9	3030.3	3033.6	3010.2
27.5°	3157.6	3133.6	3099.0	3002.2	2850.2	2741.0	2791.6	3053.6	3169.6	3168.3	3120.3
30°	3404.9	3381.0	3344.3	3226.9	3035.6	2877.6	2882.3	3164.3	3334.9	3327.7	3245.7
32.5°	3585.7	3567.6	3560.3	3469.6	3248.9	3038.9	2986.2	3287.0	3539.0	3532.4	3417.7
35°	3724.3	3701.0	3709.7	3663.7	3481.6	3219.6	3113.6	3432.9	3787.0	3786.3	3643.7
37.5°	3861.7	3841.0	3848.4	3817.6	3697.0	3448.9	3268.9	3611.7	4094.4	4109.0	3917.0
40°	3987.0	3965.0	3994.3	3965.7	3864.4	3693.0	3445.6	3813.6	4450.3	4478.4	4247.7
42.5°	4062.4	4045.1	4093.6	4094.4	4009.7	3899.0	3639.7	4036.3	4862.4	4925.1	4654.4
45°	4088.3	4082.4	4155.7	4171.0	4138.3	4018.3	3814.3	4279.1	5306.4	5418.5	5117.8
47.5°	4060.3	4049.1	4150.3	4207.0	4233.0	4074.4	3959.0	4541.8	5759.8	5923.9	5623.2
50°	3919.0	3897.0	4047.7	4167.0	4259.7	4111.1	4105.0	4845.1	6275.3	6454.5	6131.2
52.5°	3665.0	3648.3	3819.7	4027.0	4201.1	4129.0	4269.0	5176.5	6764.6	6996.6	6651.9
55°	3340.3	3318.3	3506.9	3777.6	4055.0	4123.1	4433.0	5547.1	7342.0	7577.3	7190.0
57.5°	2825.6	2781.5	3020.3	3340.3	3817.0	4115.7	4603.7	5915.9	7928.7	8210.7	7764.0
60°	2074.8	2009.5	2302.1	2681.6	3351.6	4044.3	4815.0	6329.2	8632.8	8886.8	8390.8
62.5°	1208.1	1170.1	1361.4	1715.4	2526.2	3624.3	4933.7	6809.9	9324.8	9591.5	9006.8
65°	938.1	927.4	944.1	971.4	1406.1	2713.6	4567.7	7278.6	10204.9	10391.6	9648.8
67.5°	858.0	850.0	857.4	806.1	713.4	1511.5	3613.6	7397.3	11147.6	11261.0	10210.8
70°	762.7	753.4	777.4	733.4	561.4	687.4	2334.8	6966.6	11897.7	12110.4	10638.3
72.5°	621.4	610.7	666.8	646.7	472.7	441.4	1172.8	5943.2	11819.1	12260.4	10332.2
75°	477.3	471.4	538.0	554.7	385.4	347.4	562.7	4417.8	10400.9	10845.6	8904.8
77.5°	370.7	366.0	400.1	460.7	310.7	269.4	346.0	2802.2	7838.0	7916.0	6136.6
80°	278.0	264.7	296.0	356.7	242.0	196.7	234.7	1634.2	4954.4	4491.0	2670.9
82.5°	174.0	167.4	193.3	238.0	170.7	135.3	152.7	902.7	1985.5	1169.4	515.4
85°	99.3	96.7	105.4	136.0	92.7	78.0	87.3	398.7	362.7	249.4	155.4
87.5°	40.0	38.6	48.0	60.7	34.0	28.7	30.6	96.0	80.1	74.0	51.4
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°	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2
2.5°	2537.6	2537.6	2528.3	2513.5	2496.9	2486.2	2468.9	2464.2	2446.2	2440.8	2449.5
5°	2568.2	2562.9	2534.2	2492.9	2436.2	2384.3	2326.9	2290.9	2240.2	2222.2	2235.5
7.5°	2606.9	2592.2	2542.9	2452.2	2333.5	2216.9	2095.5	2003.5	1915.5	1884.2	1888.2
10°	2642.2	2621.5	2537.6	2378.9	2173.5	1971.5	1778.2	1642.8	1540.2	1498.1	1507.5
12.5°	2677.6	2639.6	2502.2	2256.8	1946.2	1672.2	1466.2	1360.8	1297.4	1246.8	1263.4
15°	2710.9	2657.5	2447.5	2093.6	1696.8	1418.8	1266.8	1182.7	1132.1	1098.8	1104.7
17.5°	2749.6	2672.9	2365.5	1886.2	1459.5	1243.4	1119.4	1068.8	1058.7	1054.7	1057.4
20°	2803.6	2686.9	2257.6	1654.1	1284.7	1103.4	1039.5	1034.7	1034.1	1032.1	1038.7
22.5°	2861.6	2703.5	2114.9	1443.5	1136.1	1016.1	1004.7	995.4	989.4	988.7	996.1
25°	2930.3	2708.9	1936.1	1270.8	1009.4	974.8	961.4	947.4	943.4	943.4	947.4
27.5°	2996.9	2690.9	1728.2	1120.7	938.1	936.7	919.4	914.7	914.1	916.0	921.4
30°	3063.6	2656.9	1521.5	982.1	896.8	896.8	890.7	894.1	896.8	903.4	908.0
32.5°	3153.6	2620.9	1348.8	879.4	860.7	854.0	860.1	866.7	869.4	878.1	885.4
35°	3285.6	2595.6	1211.4	823.4	823.4	814.8	818.1	816.7	810.8	806.8	816.1
37.5°	3460.3	2594.3	1098.1	797.4	792.0	790.7	791.4	782.7	759.4	731.4	732.1
40°	3670.3	2630.3	1010.8	779.4	775.4	783.4	779.4	756.0	692.1	643.4	642.1
42.5°	3952.3	2732.9	954.8	757.4	769.4	779.4	763.4	682.8	639.4	606.7	605.4
45°	4284.4	2899.6	926.1	734.1	758.1	770.1	692.7	657.4	622.7	583.4	580.8
47.5°	4660.4	3109.6	919.4	712.1	732.8	740.0	662.8	646.7	607.4	564.7	561.4
50°	5069.8	3358.3	937.5	686.0	696.1	670.8	652.7	638.1	597.4	555.3	550.7
52.5°	5493.2	3632.3	973.4	650.8	659.4	631.4	648.7	636.0	591.4	534.7	530.7
55°	5909.2	3908.3	1008.1	609.4	622.1	596.0	637.3	628.0	564.1	500.0	496.7
57.5°	6331.8	4183.0	1042.1	572.7	586.1	562.0	619.4	606.7	533.4	468.0	466.7
60°	6771.3	4449.7	1058.1	537.4	546.7	530.7	592.0	570.0	498.7	435.4	433.4
62.5°	7182.6	4671.7	1032.1	502.0	508.1	501.3	556.1	526.7	464.0	398.7	398.0
65°	7595.4	4803.8	952.1	467.4	468.7	465.4	505.4	480.0	423.3	366.7	362.7
67.5°	7969.4	4877.8	824.7	430.0	426.7	425.4	458.1	429.4	384.1	334.7	330.7
70°	8048.7	4689.8	630.1	386.0	386.0	382.7	406.0	376.7	340.7	300.7	299.4
72.5°	7351.3	3945.0	447.4	336.0	341.3	334.7	354.0	329.3	296.7	270.0	262.0
75°	5927.9	2893.0	325.3	284.6	294.1	282.7	300.7	283.3	255.3	254.7	229.4
77.5°	4073.0	1788.8	236.1	234.7	241.4	226.7	247.3	238.0	212.7	201.3	188.7
80°	1738.2	713.4	172.0	181.3	181.3	168.0	192.0	194.6	172.7	167.4	167.4
82.5°	346.0	202.6	120.6	124.6	117.4	113.4	136.0	150.7	208.0	231.3	232.1
85°	104.0	74.7	72.7	68.0	60.0	60.7	80.1	151.4	186.7	106.7	92.0
87.5°	28.7	18.7	19.4	15.4	12.7	16.7	27.4	114.7	62.6	26.6	22.7
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)