

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: P883911

Luminaire Tested: **NAV-SB4C-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23904 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

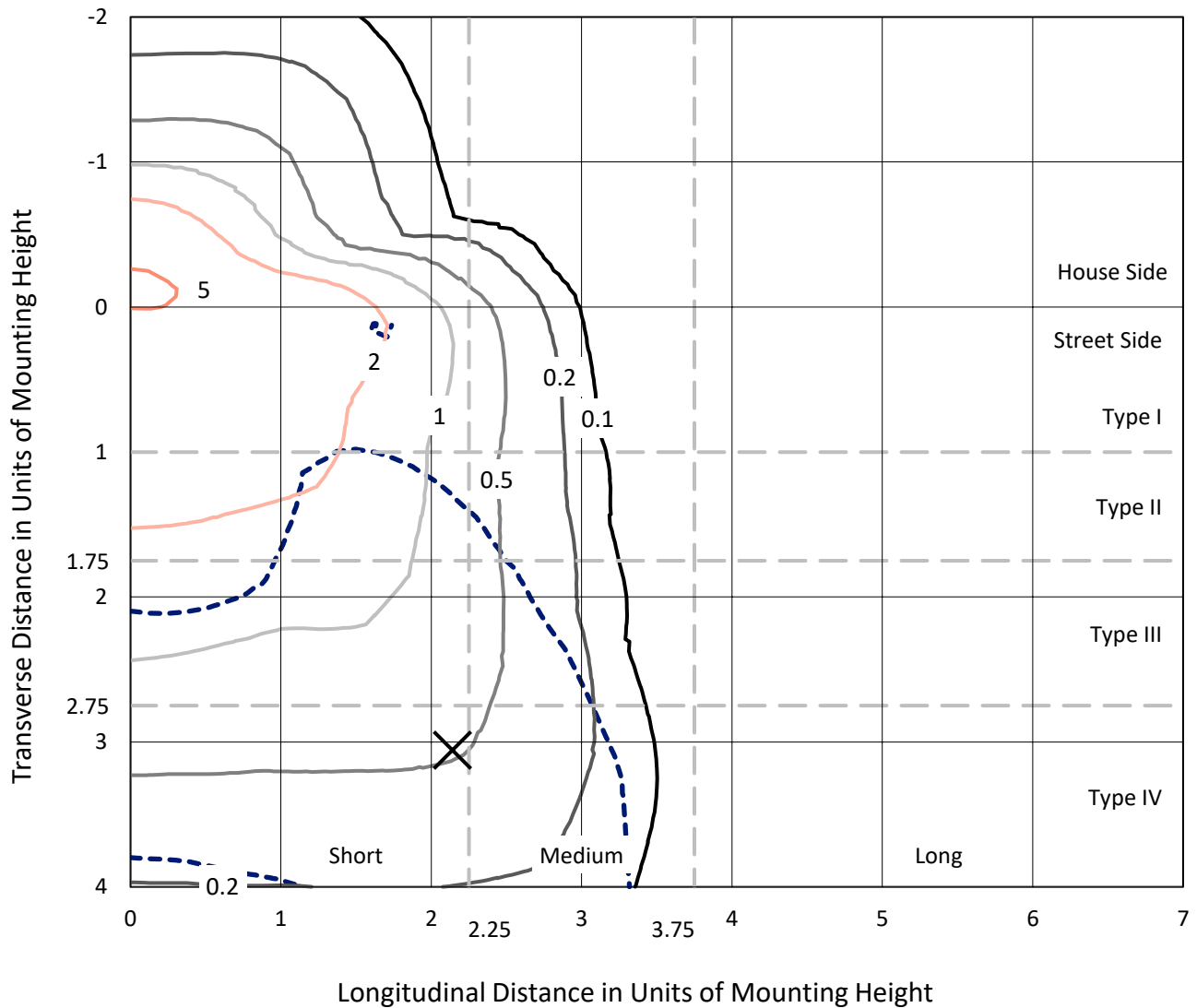
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

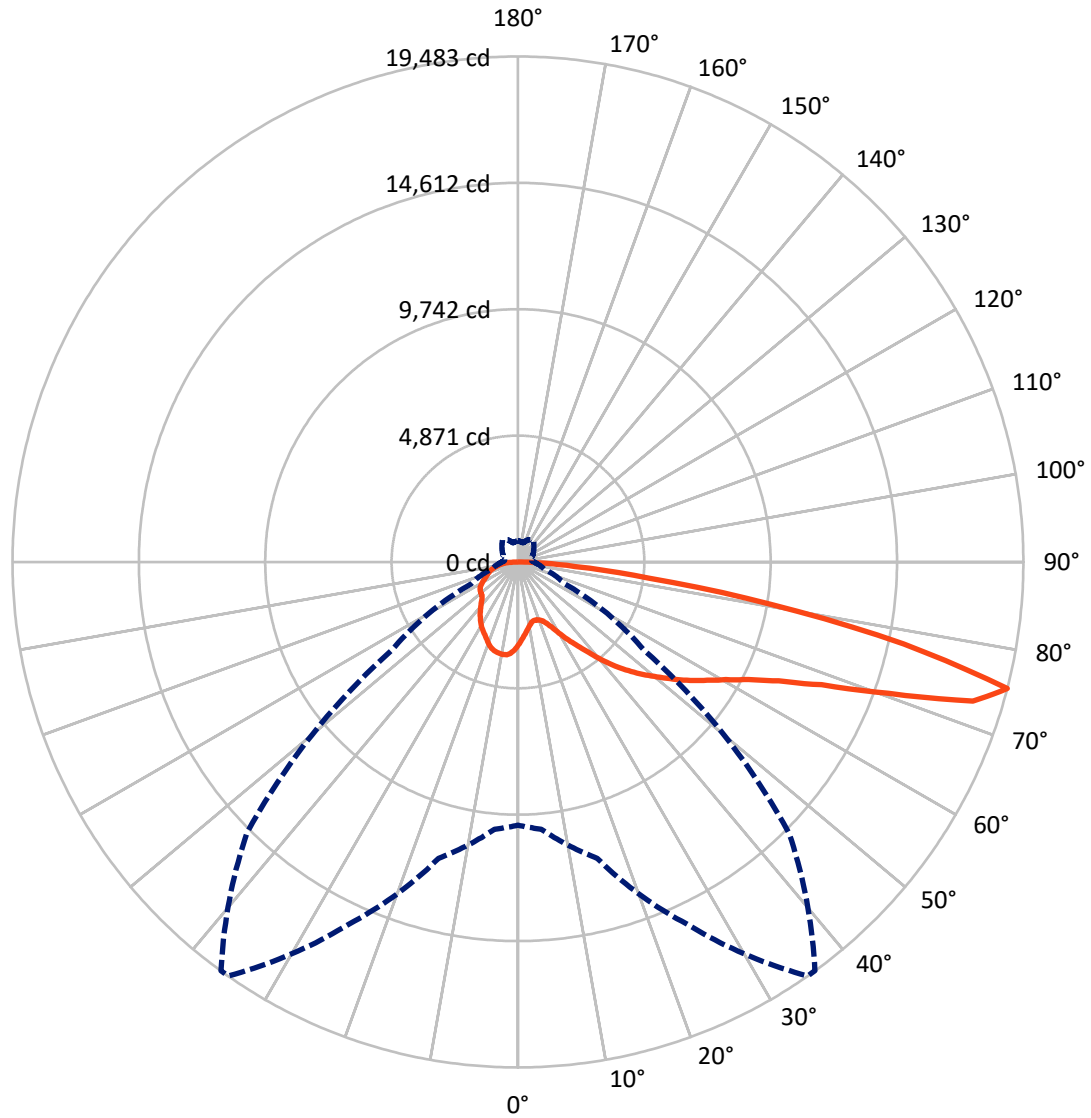
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5688.6	0.0	5688.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18215.4	0.0	18215.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	23904.0	0.0	23904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	1.3
10°-20°	869.9	3.6
20°-30°	1460.8	6.1
30°-40°	2270.3	9.5
40°-50°	3369.8	14.1
50°-60°	4652.1	19.5
60°-70°	5644.1	23.6
70°-80°	4664.4	19.5
80°-90°	670.9	2.8
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°	23904.0	100.0
0°-180°	23904.0	100.0



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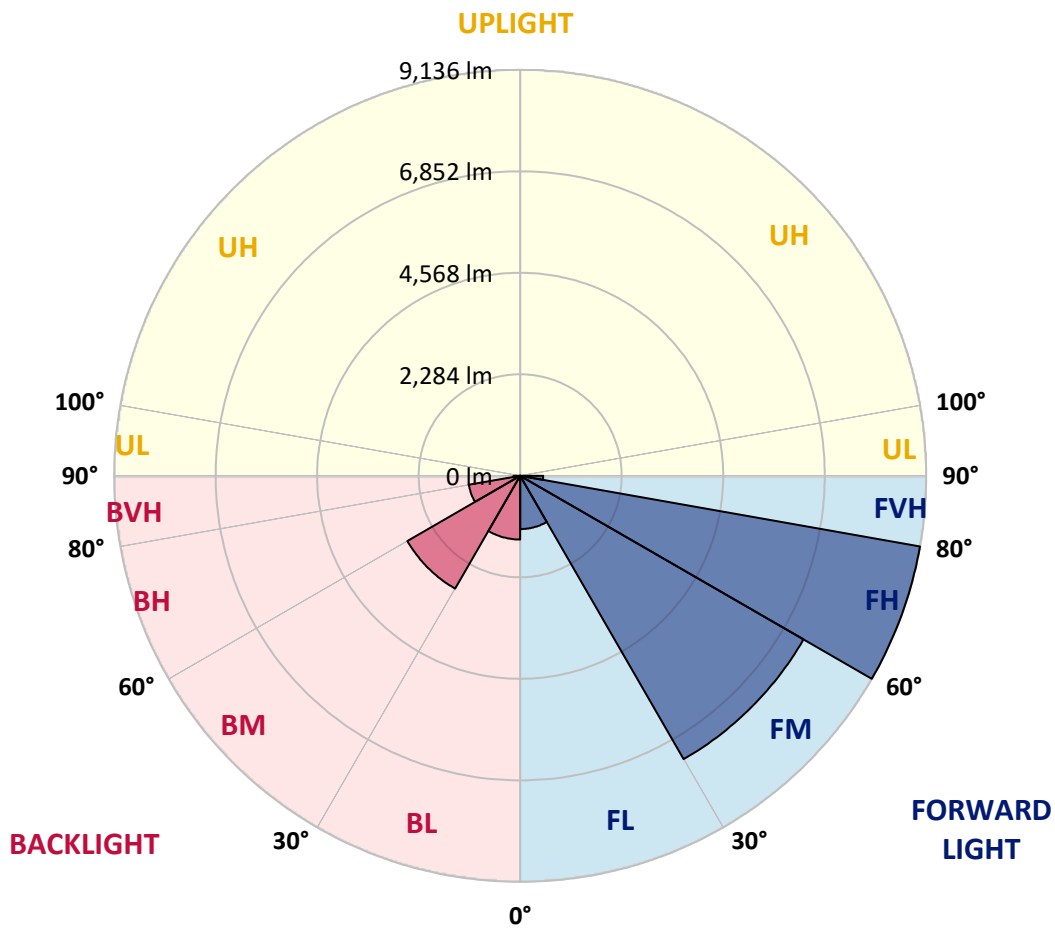
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.7	5.0			
FM (30°-60°)	7361.1	30.8			
FH (60°-80°)	9135.8	38.2			G4/12000
FVH (80°-90°)	519.8	2.2			G4/750
BL (0°-30°)	1433.6	6.0	B3/2500		
BM (30°-60°)	2931.1	12.3	B3/5000		
BH (60°-80°)	1172.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	151.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4
2.5°	2937.3	2955.4	2963.1	2959.2	2978.6	2976.0	3003.2	3036.8	3083.3	3128.5	3194.4
5°	2711.1	2730.5	2747.3	2762.8	2800.3	2811.9	2854.6	2919.2	3004.5	3091.0	3199.6
7.5°	2500.5	2517.3	2543.1	2571.6	2634.9	2646.5	2717.6	2818.4	2937.3	3063.9	3213.8
10°	2328.6	2345.4	2372.6	2404.9	2483.7	2497.9	2588.4	2722.7	2877.8	3038.1	3229.3
12.5°	2255.0	2260.1	2275.6	2307.9	2376.4	2385.5	2485.0	2638.8	2819.7	3018.7	3252.6
15°	2251.1	2261.4	2262.7	2279.5	2336.4	2340.2	2432.0	2584.5	2783.5	3014.8	3287.5
17.5°	2289.8	2297.6	2286.0	2296.3	2344.1	2350.6	2422.9	2558.6	2771.9	3031.6	3346.9
20°	2393.2	2399.7	2364.8	2350.6	2385.5	2390.6	2461.7	2575.4	2783.5	3066.5	3428.3
22.5°	2612.9	2616.8	2531.5	2473.3	2475.9	2478.5	2540.5	2643.9	2828.7	3129.8	3531.7
25°	2955.4	2952.8	2817.1	2704.7	2640.0	2625.8	2667.2	2755.1	2905.0	3213.8	3664.8
27.5°	3355.9	3336.6	3200.9	3032.9	2892.0	2871.4	2862.3	2899.8	3013.5	3324.9	3827.6
30°	3808.2	3790.1	3644.1	3424.4	3229.3	3195.7	3110.4	3091.0	3175.0	3476.1	4053.8
32.5°	4304.4	4292.8	4118.4	3852.2	3591.1	3552.4	3408.9	3357.2	3423.1	3704.8	4369.1
35°	4720.5	4710.2	4565.5	4291.5	3972.3	3924.5	3778.5	3720.4	3754.0	3998.2	4781.3
37.5°	5096.6	5091.4	4967.4	4751.6	4422.0	4363.9	4199.8	4180.4	4173.9	4384.6	5281.4
40°	5445.5	5432.6	5303.3	5189.6	4945.4	4892.4	4747.7	4730.9	4681.8	4860.1	5847.4
42.5°	5831.9	5798.3	5610.9	5557.9	5492.0	5448.1	5361.5	5364.1	5255.5	5396.4	6447.0
45°	6147.2	6127.8	5935.3	5904.2	5975.3	5957.2	6032.2	6051.6	5840.9	5958.5	7069.8
47.5°	6485.7	6467.7	6304.8	6282.9	6475.4	6480.6	6745.5	6751.9	6412.1	6542.6	7694.0
50°	6903.1	6877.3	6715.8	6742.9	6958.7	6978.1	7462.7	7418.7	6938.0	7135.7	8313.0
52.5°	7178.4	7193.9	7159.0	7202.9	7497.6	7515.7	8168.2	8055.8	7458.8	7721.1	8920.3
55°	7381.3	7412.3	7520.8	7621.6	8066.2	8084.2	8833.7	8661.9	7890.4	8263.9	9491.5
57.5°	7642.3	7598.4	7801.2	7997.7	8606.3	8654.1	9481.2	9246.0	8272.9	8731.7	9883.0
60°	8017.1	7986.0	8143.7	8434.4	9211.1	9287.3	10166.0	9771.9	8553.3	9102.5	9959.3
62.5°	8776.9	8699.4	8723.9	8981.1	9973.5	10074.3	10938.8	10230.7	8692.9	9247.3	9550.9
65°	9912.8	9779.7	9655.6	9833.9	11047.4	11146.9	11811.1	10591.2	8641.2	8966.8	8466.8
67.5°	11343.3	11211.5	11059.0	11227.0	12629.1	12707.9	12887.5	10794.1	8234.1	7886.5	6550.4
70°	12523.1	12474.0	12656.2	13347.5	15155.4	15158.0	14267.6	10626.1	7118.9	5591.5	3790.1
72.5°	12366.7	12337.0	13297.1	15434.5	18339.5	18271.0	15574.1	9354.5	4795.5	2522.5	1420.2
75°	10145.4	10337.9	11825.3	15397.0	19483.1	19474.0	14774.2	5946.9	1983.6	1045.4	734.0
77.5°	5440.3	5745.3	7677.2	11367.8	15209.7	15438.4	10387.0	2080.5	851.6	669.4	507.9
80°	1774.2	2040.4	3060.0	5787.9	9883.0	9840.4	4451.8	816.7	582.8	474.3	351.5
82.5°	753.4	784.4	1367.2	2733.1	5072.0	4993.2	1417.6	469.1	409.6	324.4	217.1
85°	294.6	329.5	603.5	1263.8	2196.8	2149.0	511.7	232.6	262.3	211.9	129.2
87.5°	96.9	117.6	215.8	432.9	683.6	659.0	125.3	80.1	113.7	96.9	46.5
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°	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4	3185.4
2.5°	3212.5	3233.2	3257.7	3293.9	3324.9	3350.8	3377.9	3394.7	3401.2	3420.6	3419.3
5°	3235.8	3281.0	3341.7	3401.2	3459.3	3494.2	3525.2	3540.7	3555.0	3565.3	3567.9
7.5°	3274.5	3332.7	3428.3	3505.8	3555.0	3583.4	3604.1	3598.9	3604.1	3606.6	3610.5
10°	3308.1	3389.5	3503.3	3576.9	3614.4	3615.7	3610.5	3592.4	3583.4	3584.7	3587.3
12.5°	3348.2	3438.6	3561.4	3623.4	3633.8	3605.3	3583.4	3552.4	3540.7	3535.6	3533.0
15°	3402.5	3505.8	3624.7	3648.0	3622.1	3586.0	3548.5	3498.1	3472.2	3451.6	3458.0
17.5°	3468.4	3582.1	3673.8	3657.0	3601.5	3542.0	3481.3	3405.1	3352.1	3330.1	3331.4
20°	3560.1	3662.2	3711.3	3637.7	3553.7	3463.2	3359.8	3266.8	3217.7	3195.7	3193.1
22.5°	3671.3	3769.5	3747.5	3604.1	3485.2	3340.4	3211.2	3142.7	3118.2	3102.7	3105.3
25°	3804.4	3888.3	3773.3	3555.0	3372.7	3177.6	3078.1	3056.1	3044.5	3032.9	3032.9
27.5°	3977.5	4022.7	3792.7	3482.6	3197.0	3004.5	2968.3	2972.2	2968.3	2948.9	2952.8
30°	4206.2	4197.2	3810.8	3365.0	2995.4	2848.1	2850.7	2867.5	2870.1	2857.1	2863.6
32.5°	4507.3	4415.6	3819.9	3212.5	2802.9	2711.1	2713.7	2731.8	2744.7	2722.7	2733.1
35°	4871.7	4670.2	3805.6	3021.3	2654.3	2580.6	2561.2	2566.4	2570.3	2549.6	2563.8
37.5°	5296.9	4955.7	3742.3	2809.3	2531.5	2452.7	2411.3	2376.4	2355.8	2336.4	2349.3
40°	5763.4	5267.2	3626.0	2602.6	2394.5	2317.0	2255.0	2189.1	2119.3	2093.4	2105.1
42.5°	6251.9	5587.6	3485.2	2404.9	2236.9	2173.5	2107.6	2012.0	1907.3	1854.4	1860.8
45°	6758.4	5915.9	3346.9	2209.7	2075.3	2048.2	1972.0	1856.9	1743.2	1676.0	1670.9
47.5°	7254.6	6226.0	3144.0	2013.3	1924.1	1953.9	1894.4	1788.5	1661.8	1555.9	1544.2
50°	7728.9	6516.8	2811.9	1814.3	1801.4	1925.4	1868.6	1716.1	1571.4	1435.7	1424.0
52.5°	8199.3	6751.9	2386.8	1633.4	1735.5	1917.7	1835.0	1667.0	1490.0	1347.8	1332.3
55°	8598.6	6873.4	1977.1	1478.3	1639.9	1851.8	1794.9	1608.8	1374.9	1223.8	1210.8
57.5°	8826.0	6775.2	1636.0	1325.8	1508.0	1743.2	1726.4	1484.8	1238.0	1121.7	1106.2
60°	8727.8	6377.2	1356.9	1192.7	1382.7	1625.6	1607.5	1362.0	1133.3	1023.5	1007.9
62.5°	8186.3	5618.7	1135.9	1076.4	1269.0	1505.5	1488.7	1267.7	1053.2	947.2	930.4
65°	7095.7	4570.7	964.0	979.5	1154.0	1360.7	1385.3	1188.9	989.9	886.5	869.7
67.5°	5411.9	3310.7	829.6	895.5	1041.5	1218.6	1289.7	1132.0	936.9	838.7	823.2
70°	3084.6	1880.2	715.9	814.1	942.0	1086.8	1216.0	1086.8	880.0	798.6	788.3
72.5°	1169.5	863.2	619.0	732.7	846.4	975.6	1134.6	1015.7	814.1	753.4	743.0
75°	624.2	525.9	520.8	637.1	736.6	867.1	1032.5	945.9	765.0	796.0	821.9
77.5°	425.1	372.2	435.5	545.3	616.4	746.9	924.0	840.0	662.9	660.3	608.6
80°	294.6	263.6	354.1	439.4	476.8	628.0	806.4	721.1	540.2	504.0	482.0
82.5°	177.0	171.9	264.9	328.2	337.3	484.6	668.1	604.8	441.9	385.1	387.7
85°	96.9	102.1	169.3	192.5	196.4	338.6	523.4	467.8	339.9	285.6	288.2
87.5°	27.1	34.9	62.0	76.2	94.3	175.7	311.4	277.8	170.6	118.9	118.9
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)