

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: P883401

Luminaire Tested: **NAV-SB3D-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883401
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-SB3D-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA 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: 24040 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

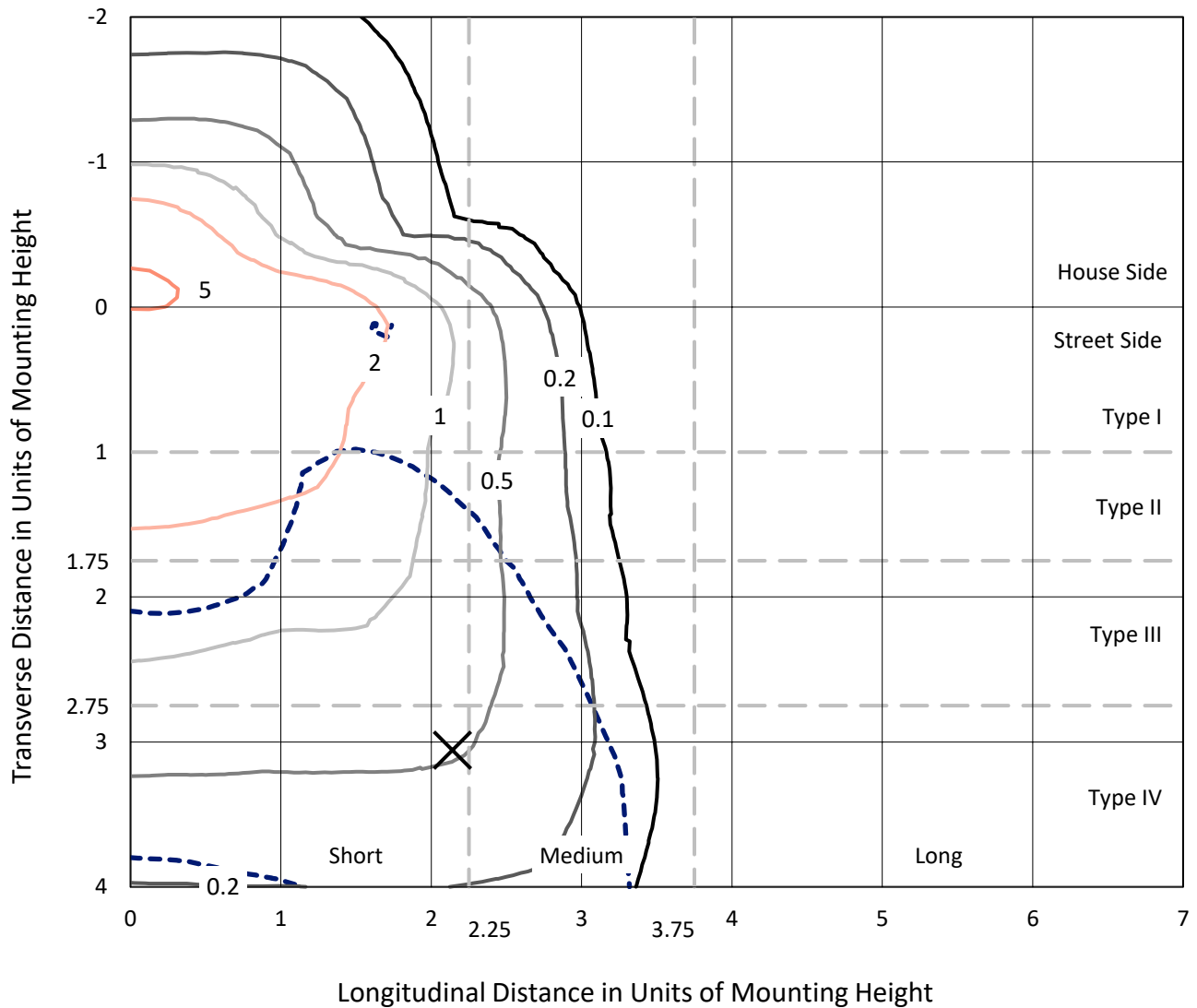
Input Watts (W): 218.1
Input Voltage (V): 120.0
Input Current (Ain): 1.84
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 2.542
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

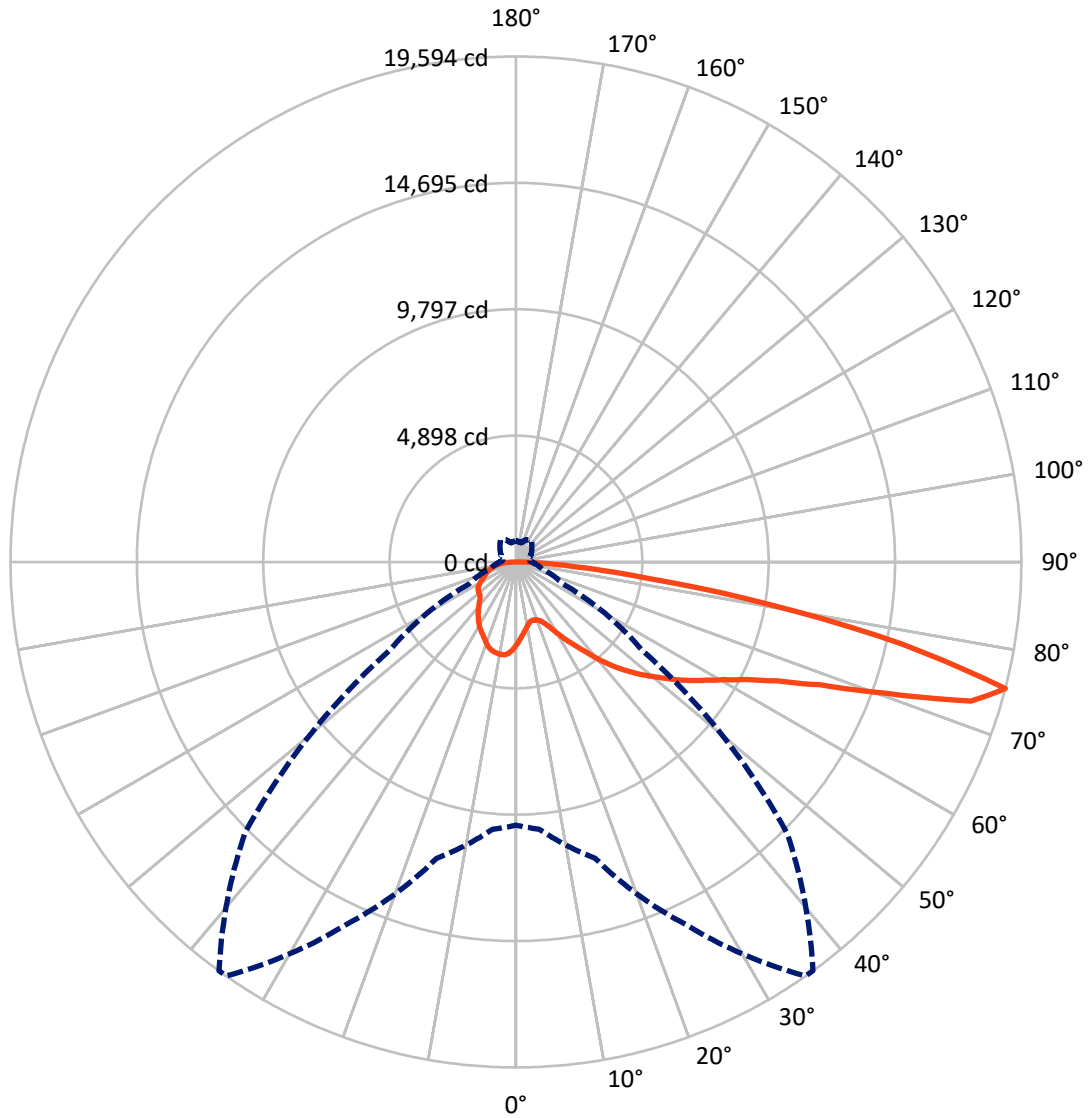
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5720.9	0.0	5720.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18319.1	0.0	18319.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	24040.0	0.0	24040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	1.3
10°-20°	874.9	3.6
20°-30°	1469.1	6.1
30°-40°	2283.2	9.5
40°-50°	3388.9	14.1
50°-60°	4678.6	19.5
60°-70°	5676.2	23.6
70°-80°	4691.0	19.5
80°-90°	674.7	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°	24040.0	100.0
0°-180°	24040.0	100.0



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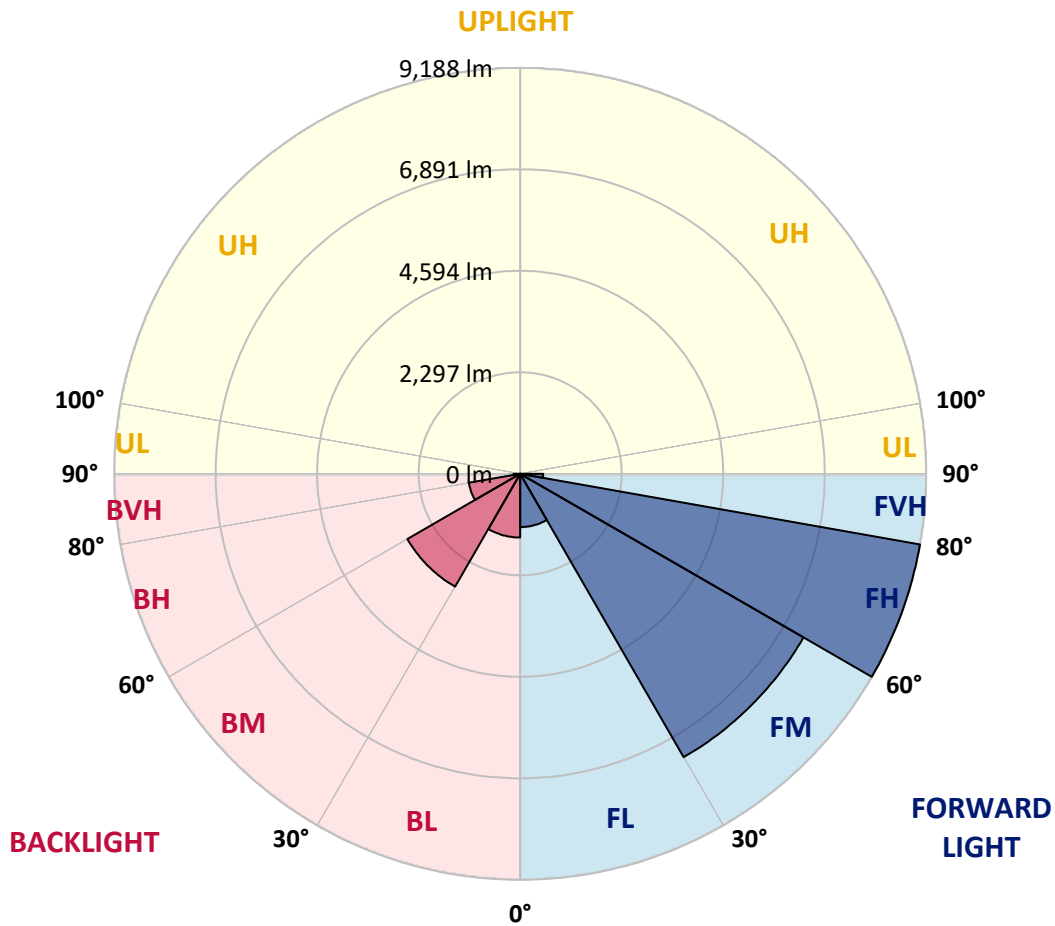
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.6	5.0			
FM (30°-60°)	7403.0	30.8			
FH (60°-80°)	9187.7	38.2			G4/12000
FVH (80°-90°)	522.8	2.2			G4/750
BL (0°-30°)	1441.7	6.0	B3/2500		
BM (30°-60°)	2947.8	12.3	B3/5000		
BH (60°-80°)	1179.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	151.9	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°	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5
2.5°	2954.0	2972.2	2980.0	2976.1	2995.6	2993.0	3020.3	3054.0	3100.8	3146.3	3212.6
5°	2726.5	2746.0	2762.9	2778.5	2816.2	2827.9	2870.8	2935.8	3021.5	3108.6	3217.8
7.5°	2514.7	2531.6	2557.6	2586.2	2649.9	2661.6	2733.0	2834.4	2954.0	3081.3	3232.1
10°	2341.9	2358.8	2386.0	2418.5	2497.8	2512.1	2603.1	2738.2	2894.2	3055.3	3247.7
12.5°	2267.8	2273.0	2288.6	2321.1	2389.9	2399.0	2499.1	2653.8	2835.7	3035.8	3271.1
15°	2263.9	2274.3	2275.6	2292.5	2349.7	2353.6	2445.8	2599.2	2799.3	3031.9	3306.2
17.5°	2302.9	2310.7	2299.0	2309.4	2357.5	2364.0	2436.7	2573.2	2787.6	3048.8	3365.9
20°	2406.8	2413.3	2378.3	2364.0	2399.0	2404.2	2475.7	2590.1	2799.3	3083.9	3447.8
22.5°	2627.8	2631.7	2545.9	2487.4	2490.0	2492.6	2555.0	2659.0	2844.8	3147.6	3551.8
25°	2972.2	2969.6	2833.1	2720.0	2655.1	2640.8	2682.4	2770.7	2921.5	3232.1	3685.6
27.5°	3375.0	3355.5	3219.1	3050.1	2908.5	2887.7	2878.6	2916.3	3030.6	3343.8	3849.4
30°	3829.9	3811.7	3664.8	3443.9	3247.7	3213.9	3128.1	3108.6	3193.1	3495.9	4076.8
32.5°	4328.9	4317.2	4141.8	3874.1	3611.6	3572.6	3428.3	3376.3	3442.6	3725.9	4393.9
35°	4747.4	4737.0	4591.5	4315.9	3994.9	3946.9	3800.0	3741.5	3775.3	4020.9	4808.5
37.5°	5125.6	5120.4	4995.6	4778.6	4447.2	4388.7	4223.7	4204.2	4197.7	4409.5	5311.4
40°	5476.5	5463.5	5333.5	5219.2	4973.5	4920.3	4774.7	4757.8	4708.4	4887.8	5880.7
42.5°	5865.1	5831.3	5642.8	5589.5	5523.3	5479.1	5392.0	5394.6	5285.4	5427.1	6483.7
45°	6182.2	6162.7	5969.0	5937.8	6009.3	5991.1	6066.5	6086.0	5874.2	5992.4	7110.1
47.5°	6522.6	6504.5	6340.7	6318.6	6512.3	6517.5	6783.9	6790.4	6448.6	6579.8	7737.8
50°	6942.4	6916.4	6754.0	6781.3	6998.3	7017.8	7505.1	7461.0	6977.5	7176.3	8360.3
52.5°	7219.2	7234.8	7199.7	7243.9	7540.2	7558.4	8214.7	8101.7	7501.2	7765.1	8971.1
55°	7423.3	7454.5	7563.6	7665.0	8112.0	8130.2	8884.0	8711.2	7935.3	8310.9	9545.5
57.5°	7685.8	7641.6	7845.6	8043.2	8655.3	8703.4	9535.1	9298.6	8320.0	8781.3	9939.3
60°	8062.7	8031.5	8190.0	8482.4	9263.5	9340.2	10223.9	9827.5	8602.0	9154.3	10016.0
62.5°	8826.8	8748.8	8773.5	9032.2	10030.2	10131.6	11001.0	10288.9	8742.4	9299.9	9605.3
65°	9969.2	9835.3	9710.5	9889.9	11110.2	11210.3	11878.3	10651.5	8690.4	9017.9	8514.9
67.5°	11407.8	11275.3	11121.9	11290.8	12700.9	12780.2	12960.8	10855.5	8281.0	7931.4	6587.6
70°	12594.3	12545.0	12728.2	13423.5	15241.6	15244.2	14348.8	10686.5	7159.4	5623.3	3811.7
72.5°	12437.1	12407.2	13372.8	15522.3	18443.8	18374.9	15662.7	9407.7	4822.8	2536.8	1428.3
75°	10203.1	10396.7	11892.6	15484.6	19593.9	19584.8	14858.2	5980.7	1994.9	1051.4	738.2
77.5°	5471.3	5778.0	7720.9	11432.5	15296.2	15526.2	10446.1	2092.3	856.4	673.2	510.7
80°	1784.3	2052.1	3077.4	5820.9	9939.3	9896.4	4477.1	821.3	586.1	477.0	353.5
82.5°	757.7	788.9	1375.0	2748.6	5100.9	5021.6	1425.7	471.8	412.0	326.2	218.3
85°	296.3	331.4	606.9	1271.0	2209.3	2161.2	514.6	233.9	263.8	213.1	130.0
87.5°	97.5	118.3	217.0	435.4	687.5	662.8	126.1	80.6	114.4	97.5	46.8
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°	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5
2.5°	3230.8	3251.6	3276.3	3312.7	3343.8	3369.8	3397.1	3414.0	3420.5	3440.0	3438.7
5°	3254.2	3299.7	3360.7	3420.5	3479.0	3514.1	3545.3	3560.9	3575.2	3585.6	3588.2
7.5°	3293.2	3351.6	3447.8	3525.8	3575.2	3603.8	3624.6	3619.4	3624.6	3627.2	3631.1
10°	3327.0	3408.8	3523.2	3597.3	3635.0	3636.3	3631.1	3612.9	3603.8	3605.1	3607.7
12.5°	3367.2	3458.2	3581.7	3644.1	3654.5	3625.9	3603.8	3572.6	3560.9	3555.7	3553.1
15°	3421.8	3525.8	3645.4	3668.7	3642.8	3606.4	3568.7	3518.0	3492.0	3471.2	3477.7
17.5°	3488.1	3602.5	3694.7	3677.8	3622.0	3562.2	3501.1	3424.4	3371.1	3349.0	3350.3
20°	3580.4	3683.0	3732.4	3658.3	3573.9	3482.9	3378.9	3285.4	3236.0	3213.9	3211.3
22.5°	3692.1	3790.9	3768.8	3624.6	3505.0	3359.4	3229.5	3160.6	3135.9	3120.3	3122.9
25°	3826.0	3910.5	3794.8	3575.2	3391.9	3195.7	3095.6	3073.5	3061.8	3050.1	3050.1
27.5°	4000.1	4045.6	3814.3	3502.4	3215.2	3021.5	2985.2	2989.1	2985.2	2965.7	2969.6
30°	4230.2	4221.1	3832.5	3384.1	3012.5	2864.3	2866.9	2883.8	2886.4	2873.4	2879.9
32.5°	4533.0	4440.7	3841.6	3230.8	2818.8	2726.5	2729.1	2747.3	2760.3	2738.2	2748.6
35°	4899.5	4696.7	3827.3	3038.4	2669.4	2595.3	2575.8	2581.0	2584.9	2564.1	2578.4
37.5°	5327.0	4983.9	3763.6	2825.3	2545.9	2466.6	2425.0	2389.9	2369.2	2349.7	2362.7
40°	5796.2	5297.1	3646.7	2617.4	2408.1	2330.2	2267.8	2201.5	2131.3	2105.3	2117.0
42.5°	6287.4	5619.4	3505.0	2418.5	2249.6	2185.9	2119.6	2023.5	1918.2	1864.9	1871.4
45°	6796.9	5949.5	3365.9	2222.3	2087.1	2059.9	1983.2	1867.5	1753.1	1685.6	1680.4
47.5°	7295.9	6261.4	3161.9	2024.8	1935.1	1965.0	1905.2	1798.6	1671.3	1564.7	1553.0
50°	7772.9	6553.8	2827.9	1824.6	1811.6	1936.4	1879.2	1725.9	1580.3	1443.8	1432.1
52.5°	8245.9	6790.4	2400.3	1642.7	1745.4	1928.6	1845.4	1676.5	1498.4	1355.5	1339.9
55°	8647.5	6912.5	1988.4	1486.7	1649.2	1862.3	1805.1	1618.0	1382.8	1230.7	1217.7
57.5°	8876.2	6813.8	1645.3	1333.4	1516.6	1753.1	1736.3	1493.2	1245.0	1128.0	1112.5
60°	8777.4	6413.5	1364.6	1199.5	1390.6	1634.9	1616.7	1369.8	1139.7	1029.3	1013.7
62.5°	8232.9	5650.6	1142.3	1082.6	1276.2	1514.0	1497.1	1274.9	1059.2	952.6	935.7
65°	7136.1	4596.7	969.5	985.1	1160.5	1368.5	1393.2	1195.6	995.5	891.5	874.6
67.5°	5442.7	3329.6	834.3	900.6	1047.5	1225.5	1297.0	1138.4	942.2	843.4	827.8
70°	3102.1	1890.9	720.0	818.7	947.4	1093.0	1222.9	1093.0	885.0	803.1	792.8
72.5°	1176.1	868.1	622.5	736.9	851.2	981.2	1141.0	1021.5	818.7	757.7	747.3
75°	627.7	528.9	523.7	640.7	740.8	872.0	1038.4	951.3	769.4	800.5	826.5
77.5°	427.6	374.3	438.0	548.4	619.9	751.2	929.2	844.7	666.7	664.1	612.1
80°	296.3	265.1	356.1	441.9	479.5	631.6	810.9	725.2	543.2	506.8	484.7
82.5°	178.0	172.8	266.4	330.1	339.2	487.3	671.9	608.2	444.5	387.3	389.9
85°	97.5	102.7	170.2	193.6	197.5	340.5	526.3	470.5	341.8	287.2	289.8
87.5°	27.3	35.1	62.4	76.7	94.9	176.7	313.2	279.4	171.5	119.6	119.6
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)