

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: P885100

Luminaire Tested: **NAV-SB6B-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20622 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

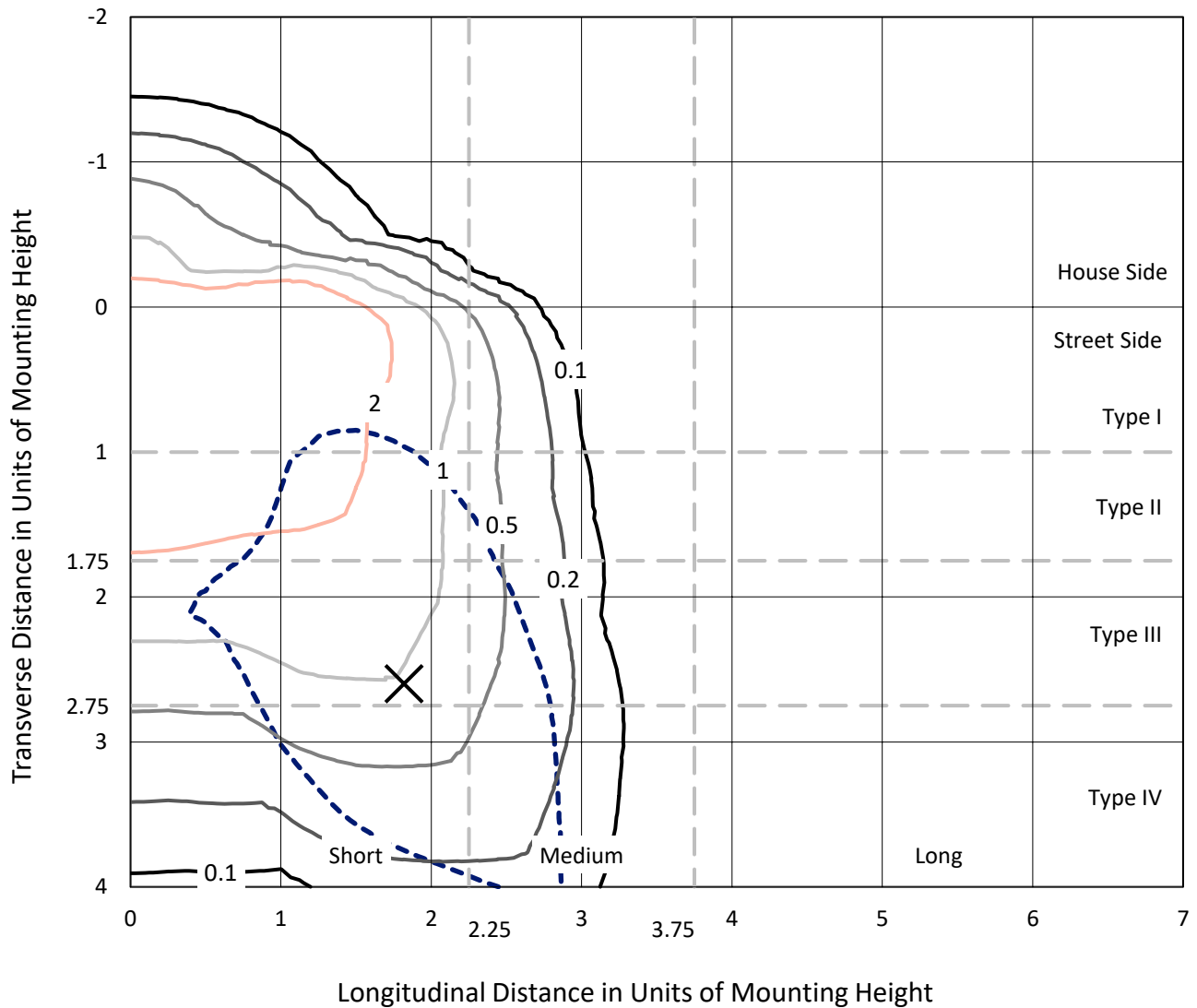
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885100
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Iso-Footcandle Lines of Horizontal Illumination

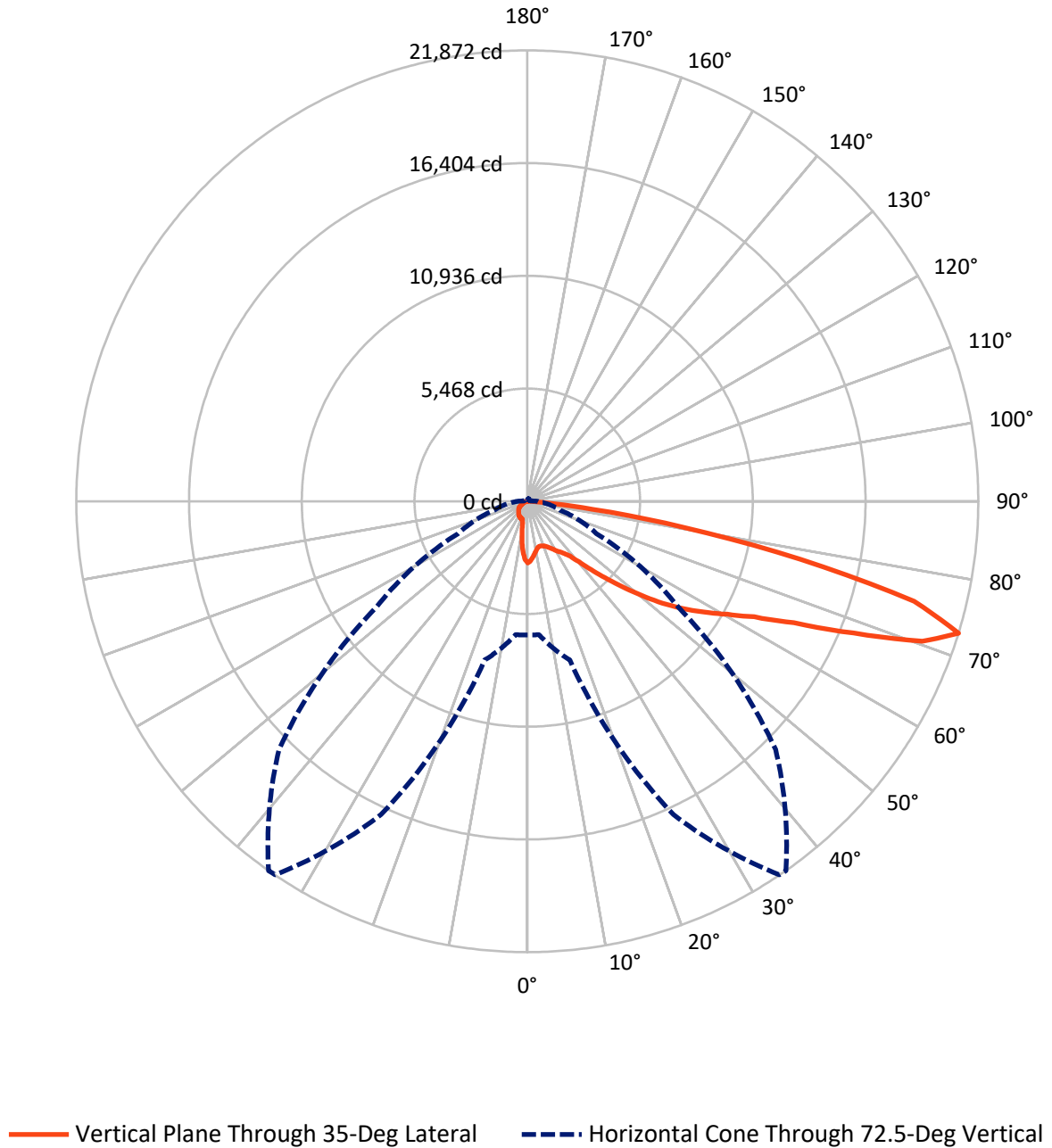
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P885100
CATALOG NUMBER: NAV-SB6B-722-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2320.9	0.0	2320.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18301.1	0.0	18301.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	20622.0	0.0	20622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.2
10°-20°	574.6	2.8
20°-30°	933.4	4.5
30°-40°	1557.3	7.6
40°-50°	2946.4	14.3
50°-60°	4681.8	22.7
60°-70°	5791.8	28.1
70°-80°	3600.2	17.5
80°-90°	291.0	1.4
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°	20622.0	100.0
0°-180°	20622.0	100.0

Coefficient of Utilization



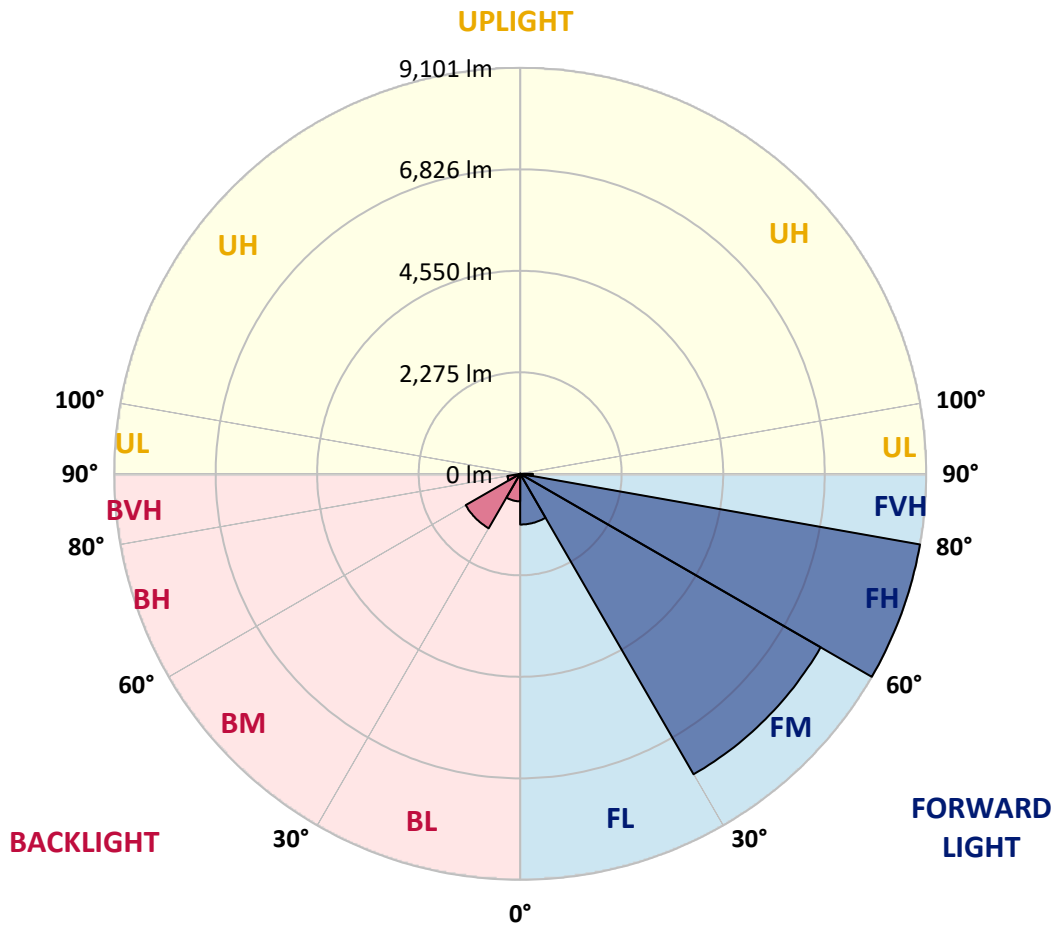
REPORT NUMBER: P885100
 CATALOG NUMBER: NAV-SB6B-722-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.8	5.5			
FM (30°-60°)	7776.6	37.7			
FH (60°-80°)	9100.7	44.1			G4/12000
FVH (80°-90°)	287.0	1.4			G3/500
BL (0°-30°)	616.7	3.0	B2/1000		
BM (30°-60°)	1409.0	6.8	B2/2500		
BH (60°-80°)	291.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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 CATALOG NUMBER: NAV-SB6B-722-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8
2.5°	2855.8	2880.0	2884.6	2892.1	2892.1	2901.2	2916.3	2937.4	2972.2	2990.3	3002.4
5°	2632.2	2650.3	2673.0	2691.1	2725.9	2730.4	2789.4	2846.8	2926.9	2987.3	3029.6
7.5°	2407.1	2428.2	2458.4	2502.3	2547.6	2561.2	2650.3	2747.1	2874.0	2987.3	3058.3
10°	2248.4	2249.9	2277.1	2320.9	2393.5	2410.1	2518.9	2656.4	2815.1	2969.2	3085.5
12.5°	2159.3	2169.8	2181.9	2215.2	2284.7	2295.3	2411.6	2573.3	2756.1	2958.6	3117.3
15°	2159.3	2166.8	2174.4	2191.0	2246.9	2256.0	2358.7	2520.4	2725.9	2963.1	3168.6
17.5°	2181.9	2194.0	2188.0	2207.6	2266.5	2272.6	2363.3	2505.3	2724.4	2991.8	3247.2
20°	2236.3	2245.4	2233.3	2245.4	2304.3	2316.4	2410.1	2534.0	2750.1	3041.7	3345.4
22.5°	2322.5	2327.0	2298.3	2307.3	2367.8	2382.9	2491.7	2615.6	2812.0	3121.8	3476.9
25°	2431.2	2440.3	2396.5	2407.1	2464.5	2482.6	2608.0	2738.0	2910.2	3232.1	3644.6
27.5°	2556.7	2561.2	2523.4	2521.9	2596.0	2621.6	2748.6	2889.1	3041.7	3371.1	3856.2
30°	2700.2	2713.8	2677.5	2671.5	2765.2	2786.3	2911.8	3074.9	3235.1	3579.6	4156.8
32.5°	2813.5	2824.1	2803.0	2818.1	2913.3	2929.9	3109.7	3337.9	3538.8	3875.8	4566.3
35°	2976.7	2982.8	2934.4	2961.6	3070.4	3112.7	3380.2	3706.6	3921.1	4247.5	5101.2
37.5°	3567.5	3567.5	3362.0	3227.6	3331.8	3369.6	3750.4	4170.4	4392.6	4746.1	5775.2
40°	4385.0	4371.4	4070.7	3795.7	3782.1	3856.2	4277.7	4755.2	5001.5	5344.5	6533.7
42.5°	5256.9	5235.7	4826.2	4554.2	4508.9	4534.6	4886.7	5476.0	5726.8	6074.3	7349.7
45°	6030.5	6024.5	5649.7	5284.1	5202.5	5284.1	5646.7	6319.1	6498.9	6864.6	8164.1
47.5°	6678.8	6678.8	6405.3	6166.5	6124.2	6172.6	6675.7	7254.5	7237.8	7706.3	8957.4
50°	7425.2	7419.2	7159.3	7056.5	7100.3	7168.3	7860.4	8239.7	8002.4	8532.8	9666.1
52.5°	7948.0	7984.3	7895.1	7878.5	8102.1	8220.0	9063.2	9203.7	8686.9	9317.0	10196.4
55°	8362.0	8404.4	8507.1	8623.5	9054.1	9208.2	10228.2	10117.9	9259.6	9997.0	10501.7
57.5°	8948.3	8887.9	9046.5	9276.2	9972.8	10158.7	11356.9	10980.7	9720.5	10548.5	10534.9
60°	9660.0	9669.1	9696.3	9986.4	10890.0	11128.7	12469.0	11796.6	10016.6	10887.0	10166.2
62.5°	10515.3	10528.9	10584.8	11030.5	12121.5	12346.6	13653.7	12464.5	10152.6	10791.8	9214.3
65°	10456.3	10513.8	11137.8	12662.4	13993.7	14215.8	15036.3	12932.9	9947.1	9921.4	7502.3
67.5°	9525.5	9619.2	10663.3	14611.7	16816.3	17064.1	16707.5	13025.1	9060.1	7715.3	4894.2
70°	8304.6	8337.9	9593.5	16364.5	20084.6	20335.5	18203.4	12011.2	6875.2	4303.4	2192.5
72.5°	6485.3	6492.9	7966.2	16770.9	21858.6	21872.2	17029.3	8916.6	3697.5	1653.1	761.6
75°	4632.8	4587.5	5335.5	13600.8	19230.9	19385.0	12766.7	4182.5	1412.8	781.2	379.3
77.5°	2484.1	2534.0	3019.0	8065.9	13285.0	13547.9	6965.9	1205.8	719.3	531.9	250.8
80°	767.6	809.9	1237.5	3693.0	7524.9	7683.6	2582.4	536.4	501.7	379.3	164.7
82.5°	241.8	250.8	577.2	1551.8	3123.3	3195.8	748.0	303.7	343.0	250.8	96.7
85°	69.5	71.0	256.9	578.7	772.1	787.2	210.0	117.9	196.4	155.6	49.9
87.5°	7.6	24.2	96.7	96.7	68.0	66.5	22.7	25.7	55.9	19.6	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P885100
 CATALOG NUMBER: NAV-SB6B-722-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8	2988.8
2.5°	2994.9	2996.4	2976.7	2943.5	2907.2	2877.0	2839.2	2809.0	2787.9	2781.8	2792.4
5°	3016.0	3005.4	2949.5	2848.3	2727.4	2623.1	2506.8	2414.6	2354.2	2328.5	2337.6
7.5°	3047.7	3017.5	2895.1	2695.7	2464.5	2259.0	2050.5	1888.8	1786.0	1734.7	1742.2
10°	3074.9	3014.5	2804.5	2475.1	2121.5	1810.2	1529.2	1334.2	1225.4	1174.1	1175.6
12.5°	3100.6	3013.0	2686.6	2213.7	1734.7	1353.9	1092.5	995.8	965.5	955.0	951.9
15°	3149.0	3017.5	2538.5	1914.5	1349.4	1023.0	927.8	926.3	932.3	929.3	927.8
17.5°	3215.5	3022.1	2370.8	1597.2	1041.1	902.1	897.6	911.2	920.2	915.7	914.2
20°	3301.6	3040.2	2192.5	1282.9	894.5	871.9	882.4	894.5	902.1	894.5	893.0
22.5°	3422.5	3071.9	1997.6	1030.5	847.7	853.7	862.8	876.4	884.0	873.4	871.9
25°	3570.6	3121.8	1805.7	896.0	825.0	832.6	846.2	861.3	870.4	859.8	858.3
27.5°	3762.5	3201.9	1628.9	865.8	802.4	806.9	826.5	849.2	861.3	847.7	847.7
30°	4040.5	3333.3	1476.3	879.4	788.8	778.2	805.4	837.1	850.7	838.6	837.1
32.5°	4409.2	3519.2	1382.6	900.6	782.7	744.9	770.6	811.4	834.1	826.5	826.5
35°	4892.7	3801.8	1346.3	924.8	778.2	710.2	728.3	772.1	811.4	819.0	819.0
37.5°	5479.0	4194.6	1356.9	935.3	764.6	681.5	690.5	728.3	779.7	803.9	809.9
40°	6145.4	4652.5	1417.3	924.8	749.5	657.3	658.8	687.5	732.9	769.1	781.2
42.5°	6832.9	5187.4	1529.2	885.5	735.9	636.1	631.6	651.3	681.5	707.2	717.7
45°	7487.2	5737.4	1639.5	831.1	719.3	615.0	604.4	612.0	618.0	628.6	634.6
47.5°	8058.3	6124.2	1607.7	781.2	696.6	590.8	572.7	569.7	551.5	550.0	548.5
50°	8452.7	6208.8	1427.9	731.3	663.3	563.6	534.9	516.8	485.0	469.9	471.4
52.5°	8578.1	5874.9	1166.5	681.5	608.9	527.3	486.6	457.8	418.6	405.0	403.4
55°	8411.9	5220.6	932.3	621.0	533.4	479.0	433.7	395.9	364.2	347.5	347.5
57.5°	8005.4	4388.0	737.4	550.0	453.3	424.6	379.3	341.5	314.3	297.7	294.7
60°	7331.5	3484.4	583.3	465.4	386.8	365.7	318.8	294.7	270.5	250.8	246.3
62.5°	6308.6	2487.2	457.8	368.7	323.4	299.2	272.0	253.9	225.1	197.9	193.4
65°	4922.9	1521.6	353.6	270.5	259.9	247.8	231.2	214.6	179.8	152.6	148.1
67.5°	3105.2	720.8	252.3	204.0	205.5	199.5	191.9	178.3	152.6	128.4	125.4
70°	1367.5	349.0	166.2	155.6	152.6	152.6	158.7	154.1	129.9	107.3	102.8
72.5°	465.4	187.4	123.9	117.9	110.3	108.8	133.0	128.4	104.3	83.1	78.6
75°	243.3	125.4	90.7	84.6	66.5	80.1	105.8	99.7	74.0	54.4	49.9
77.5°	158.7	89.2	62.0	54.4	37.8	52.9	78.6	69.5	43.8	27.2	24.2
80°	99.7	58.9	36.3	25.7	18.1	28.7	42.3	30.2	16.6	6.0	4.5
82.5°	52.9	30.2	13.6	9.1	7.6	9.1	10.6	7.6	3.0	0.0	0.0
85°	21.2	10.6	4.5	3.0	1.5	0.0	3.0	1.5	0.0	0.0	0.0
87.5°	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)