

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: P885190

Luminaire Tested: **NAV-SB6B-835-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885190
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-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 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: 21835 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

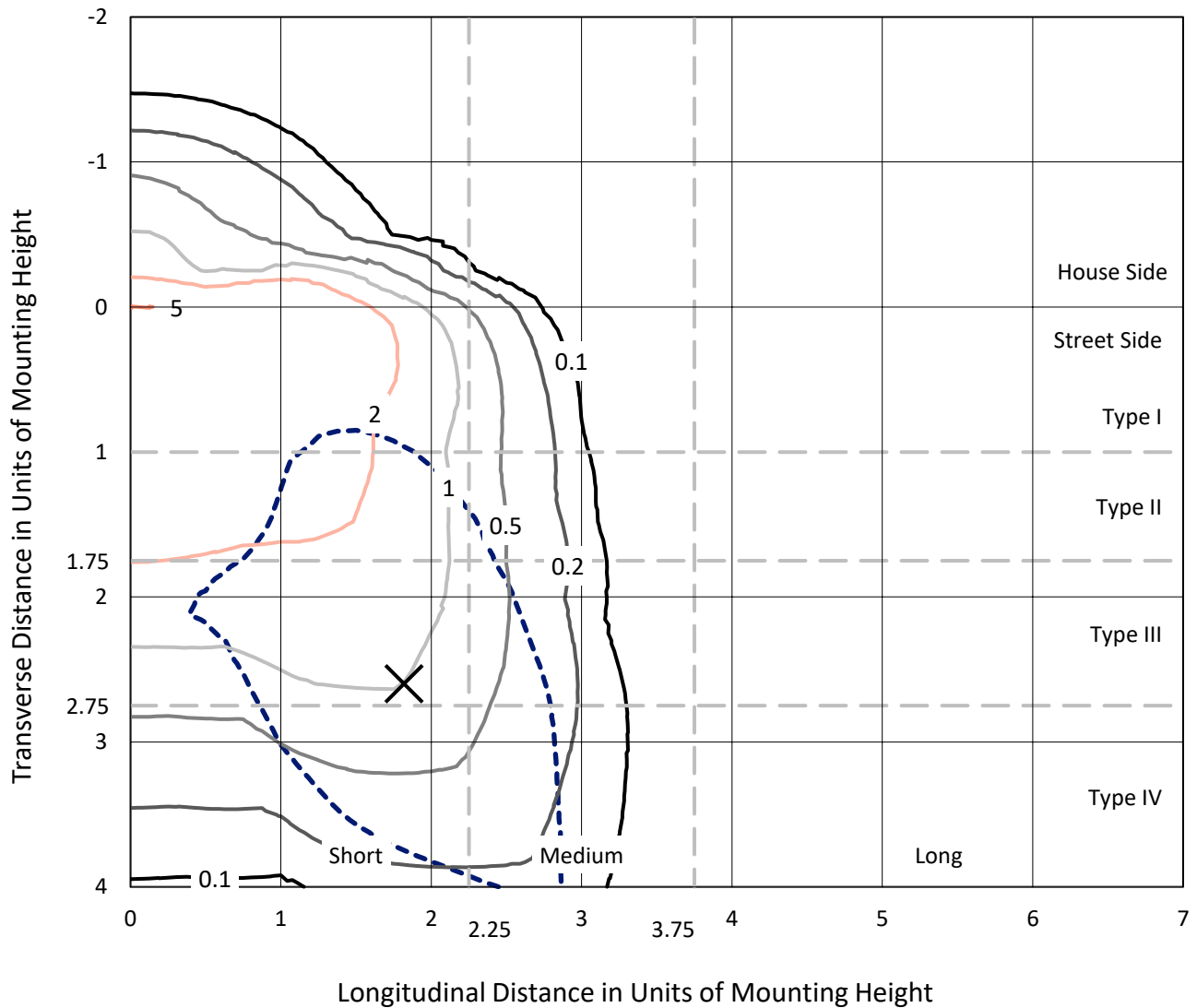
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

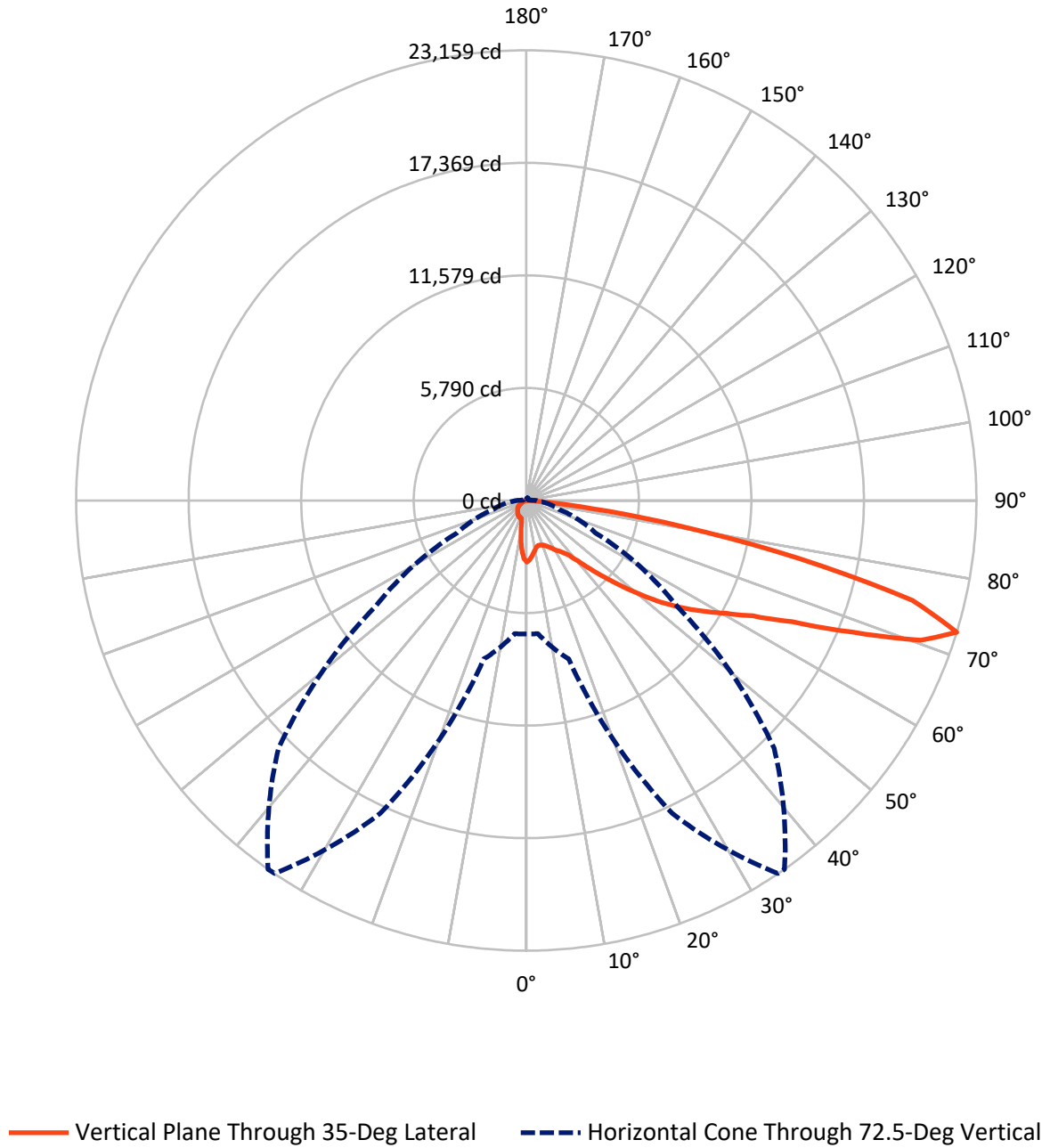
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2457.5	0.0	2457.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19377.6	0.0	19377.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	21835.0	0.0	21835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	1.2
10°-20°	608.3	2.8
20°-30°	988.2	4.5
30°-40°	1648.9	7.6
40°-50°	3119.7	14.3
50°-60°	4957.2	22.7
60°-70°	6132.5	28.1
70°-80°	3812.0	17.5
80°-90°	308.1	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°	21835.0	100.0
0°-180°	21835.0	100.0

Coefficient of Utilization



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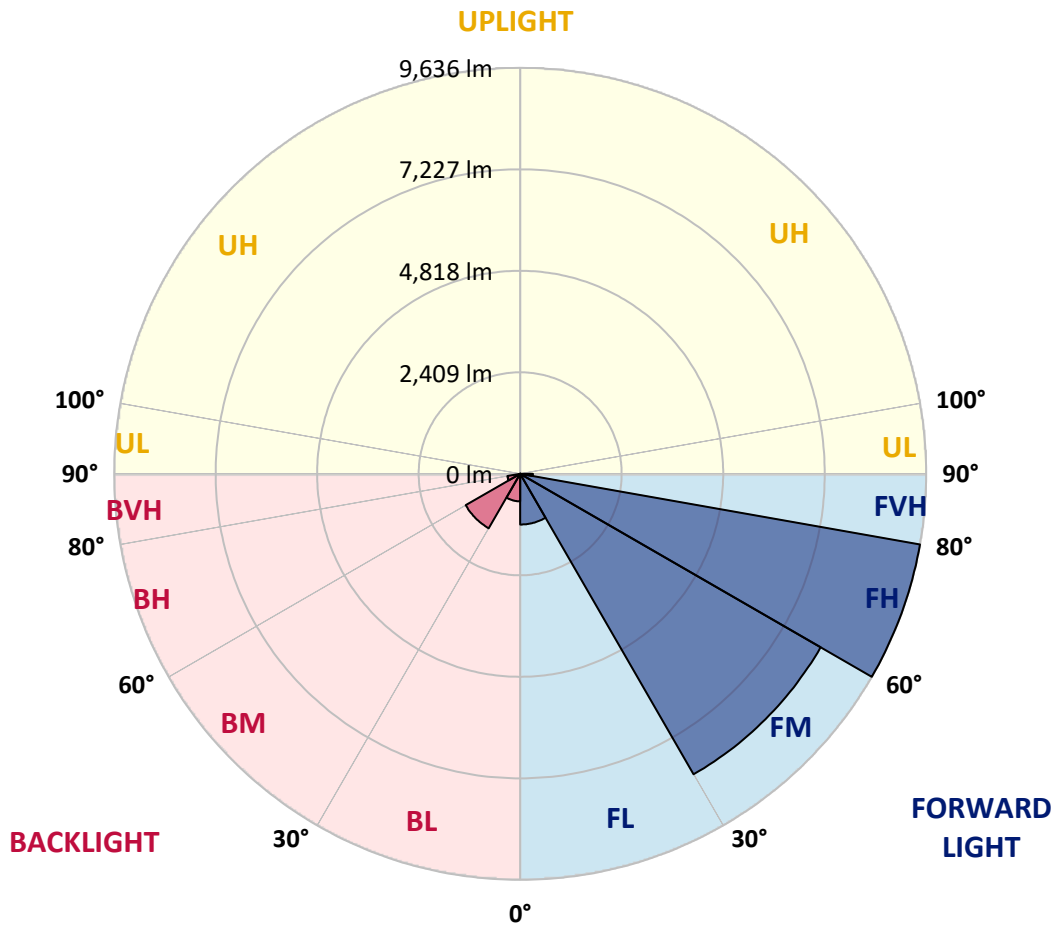
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.7	5.5			
FM (30°-60°)	8234.0	37.7			
FH (60°-80°)	9636.1	44.1			G4/12000
FVH (80°-90°)	303.9	1.4			G3/500
BL (0°-30°)	653.0	3.0	B2/1000		
BM (30°-60°)	1491.9	6.8	B2/2500		
BH (60°-80°)	308.4	1.4	B1/500		G1/500
BVH (80°-90°)	4.2	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6
2.5°	3023.8	3049.4	3054.2	3062.2	3062.2	3071.8	3087.8	3110.2	3147.0	3166.2	3179.0
5°	2787.0	2806.2	2830.2	2849.4	2886.2	2891.0	2953.4	3014.2	3099.0	3163.0	3207.8
7.5°	2548.7	2571.1	2603.1	2649.5	2697.4	2711.8	2806.2	2908.6	3043.0	3163.0	3238.2
10°	2380.7	2382.3	2411.1	2457.5	2534.3	2551.9	2667.1	2812.6	2980.6	3143.8	3267.0
12.5°	2286.3	2297.5	2310.3	2345.5	2419.1	2430.3	2553.5	2724.6	2918.2	3132.6	3300.6
15°	2286.3	2294.3	2302.3	2319.9	2379.1	2388.7	2497.5	2668.7	2886.2	3137.4	3355.0
17.5°	2310.3	2323.1	2316.7	2337.5	2399.9	2406.3	2502.3	2652.7	2884.6	3167.8	3438.2
20°	2367.9	2377.5	2364.7	2377.5	2439.9	2452.7	2551.9	2683.1	2911.8	3220.6	3542.2
22.5°	2459.1	2463.9	2433.5	2443.1	2507.1	2523.1	2638.3	2769.4	2977.4	3305.4	3681.4
25°	2574.3	2583.9	2537.5	2548.7	2609.5	2628.7	2761.4	2899.0	3081.4	3422.2	3859.0
27.5°	2707.0	2711.8	2671.9	2670.3	2748.6	2775.8	2910.2	3059.0	3220.6	3569.4	4083.0
30°	2859.0	2873.4	2835.0	2828.6	2927.8	2950.2	3083.0	3255.8	3425.4	3790.2	4401.4
32.5°	2979.0	2990.2	2967.8	2983.8	3084.6	3102.2	3292.6	3534.2	3747.0	4103.8	4834.9
35°	3151.8	3158.2	3107.0	3135.8	3251.0	3295.8	3579.0	3924.6	4151.8	4497.3	5401.3
37.5°	3777.4	3777.4	3559.8	3417.4	3527.8	3567.8	3971.0	4415.8	4650.9	5025.3	6114.9
40°	4642.9	4628.5	4310.2	4019.0	4004.6	4083.0	4529.3	5034.9	5295.7	5658.9	6918.0
42.5°	5566.1	5543.7	5110.1	4822.1	4774.1	4801.3	5174.1	5798.1	6063.7	6431.6	7782.0
45°	6385.2	6378.8	5982.1	5594.9	5508.5	5594.9	5978.9	6690.8	6881.2	7268.4	8644.3
47.5°	7071.6	7071.6	6782.0	6529.2	6484.4	6535.6	7068.4	7681.2	7663.6	8159.5	9484.3
50°	7862.0	7855.6	7580.4	7471.6	7518.0	7590.0	8322.7	8724.3	8473.1	9034.7	10234.6
52.5°	8415.5	8453.9	8359.5	8341.9	8578.7	8703.5	9596.3	9745.1	9197.9	9865.1	10796.2
55°	8853.9	8898.7	9007.5	9130.7	9586.7	9749.9	10829.8	10713.0	9804.3	10585.0	11119.4
57.5°	9474.7	9410.7	9578.7	9821.9	10559.4	10756.2	12024.9	11626.6	10292.2	11169.0	11154.6
60°	10228.2	10237.8	10266.6	10573.8	11530.6	11783.3	13202.5	12490.5	10605.8	11527.4	10764.2
62.5°	11133.8	11148.2	11207.4	11679.3	12834.5	13072.9	14456.8	13197.7	10749.8	11426.6	9756.3
65°	11071.4	11132.2	11792.9	13407.3	14816.8	15052.0	15920.7	13693.6	10532.2	10505.0	7943.6
67.5°	10085.8	10185.0	11290.6	15471.1	17805.4	18067.8	17690.2	13791.2	9593.1	8169.1	5182.1
70°	8793.1	8828.3	10157.8	17327.0	21266.0	21531.6	19274.1	12717.7	7279.6	4556.5	2321.5
72.5°	6866.8	6874.8	8434.7	17757.4	23144.3	23158.7	18031.0	9441.1	3915.0	1750.3	806.4
75°	4905.3	4857.3	5649.3	14400.8	20362.1	20525.3	13517.6	4428.6	1495.9	827.2	401.6
77.5°	2630.3	2683.1	3196.6	8540.3	14066.4	14344.8	7375.6	1276.7	761.6	563.2	265.6
80°	812.8	857.6	1310.3	3910.2	7967.6	8135.5	2734.2	568.0	531.2	401.6	174.4
82.5°	256.0	265.6	611.2	1643.1	3307.0	3383.8	792.0	321.6	363.2	265.6	102.4
85°	73.6	75.2	272.0	612.8	817.6	833.6	222.4	124.8	208.0	164.8	52.8
87.5°	8.0	25.6	102.4	102.4	72.0	70.4	24.0	27.2	59.2	20.8	9.6
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°	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6	3164.6
2.5°	3171.0	3172.6	3151.8	3116.6	3078.2	3046.2	3006.2	2974.2	2951.8	2945.4	2956.6
5°	3193.4	3182.2	3123.0	3015.8	2887.8	2777.4	2654.3	2556.7	2492.7	2465.5	2475.1
7.5°	3227.0	3195.0	3065.4	2854.2	2609.5	2391.9	2171.1	1999.9	1891.1	1836.7	1844.7
10°	3255.8	3191.8	2969.4	2620.7	2246.3	1916.7	1619.1	1412.7	1297.5	1243.1	1244.7
12.5°	3283.0	3190.2	2844.6	2343.9	1836.7	1433.5	1156.7	1054.3	1022.3	1011.1	1007.9
15°	3334.2	3195.0	2687.9	2027.1	1428.7	1083.1	982.3	980.7	987.1	983.9	982.3
17.5°	3404.6	3199.8	2510.3	1691.1	1102.3	955.1	950.3	964.7	974.3	969.5	967.9
20°	3495.8	3219.0	2321.5	1358.3	947.1	923.1	934.3	947.1	955.1	947.1	945.5
22.5°	3623.8	3252.6	2115.1	1091.1	897.5	903.9	913.5	927.9	935.9	924.7	923.1
25°	3780.6	3305.4	1911.9	948.7	873.6	881.6	896.0	911.9	921.5	910.3	908.7
27.5°	3983.8	3390.2	1724.7	916.7	849.6	854.4	875.2	899.1	911.9	897.5	897.5
30°	4278.2	3529.4	1563.1	931.1	835.2	824.0	852.8	886.4	900.7	888.0	886.4
32.5°	4668.5	3726.2	1463.9	953.5	828.8	788.8	816.0	859.2	883.2	875.2	875.2
35°	5180.5	4025.4	1425.5	979.1	824.0	752.0	771.2	817.6	859.2	867.2	867.2
37.5°	5801.3	4441.4	1436.7	990.3	809.6	721.6	731.2	771.2	825.6	851.2	857.6
40°	6506.8	4926.1	1500.7	979.1	793.6	696.0	697.6	728.0	776.0	814.4	827.2
42.5°	7234.8	5492.5	1619.1	937.5	779.2	673.6	668.8	689.6	721.6	748.8	760.0
45°	7927.6	6074.9	1735.9	880.0	761.6	651.2	640.0	648.0	654.4	665.6	672.0
47.5°	8532.3	6484.4	1702.3	827.2	737.6	625.6	606.4	603.2	584.0	582.4	580.8
50°	8949.9	6574.0	1511.9	774.4	702.4	596.8	566.4	547.2	513.6	497.6	499.2
52.5°	9082.7	6220.5	1235.1	721.6	644.8	558.4	515.2	484.8	443.2	428.8	427.2
55°	8906.7	5527.7	987.1	657.6	564.8	507.2	459.2	419.2	385.6	368.0	368.0
57.5°	8476.3	4646.1	780.8	582.4	480.0	449.6	401.6	361.6	332.8	315.2	312.0
60°	7762.8	3689.4	617.6	492.8	409.6	387.2	337.6	312.0	286.4	265.6	260.8
62.5°	6679.6	2633.5	484.8	390.4	342.4	316.8	288.0	268.8	238.4	209.6	204.8
65°	5212.5	1611.1	374.4	286.4	275.2	262.4	244.8	227.2	190.4	161.6	156.8
67.5°	3287.8	763.2	267.2	216.0	217.6	211.2	203.2	188.8	161.6	136.0	132.8
70°	1447.9	369.6	176.0	164.8	161.6	161.6	168.0	163.2	137.6	113.6	108.8
72.5°	492.8	198.4	131.2	124.8	116.8	115.2	140.8	136.0	110.4	88.0	83.2
75°	257.6	132.8	96.0	89.6	70.4	84.8	112.0	105.6	78.4	57.6	52.8
77.5°	168.0	94.4	65.6	57.6	40.0	56.0	83.2	73.6	46.4	28.8	25.6
80°	105.6	62.4	38.4	27.2	19.2	30.4	44.8	32.0	17.6	6.4	4.8
82.5°	56.0	32.0	14.4	9.6	8.0	9.6	11.2	8.0	3.2	0.0	0.0
85°	22.4	11.2	4.8	3.2	1.6	0.0	3.2	1.6	0.0	0.0	0.0
87.5°	8.0	1.6	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)