

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: P884950

Luminaire Tested: **NAV-SB6A-730-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884950
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-SB6A-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 350mA 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: 20293 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

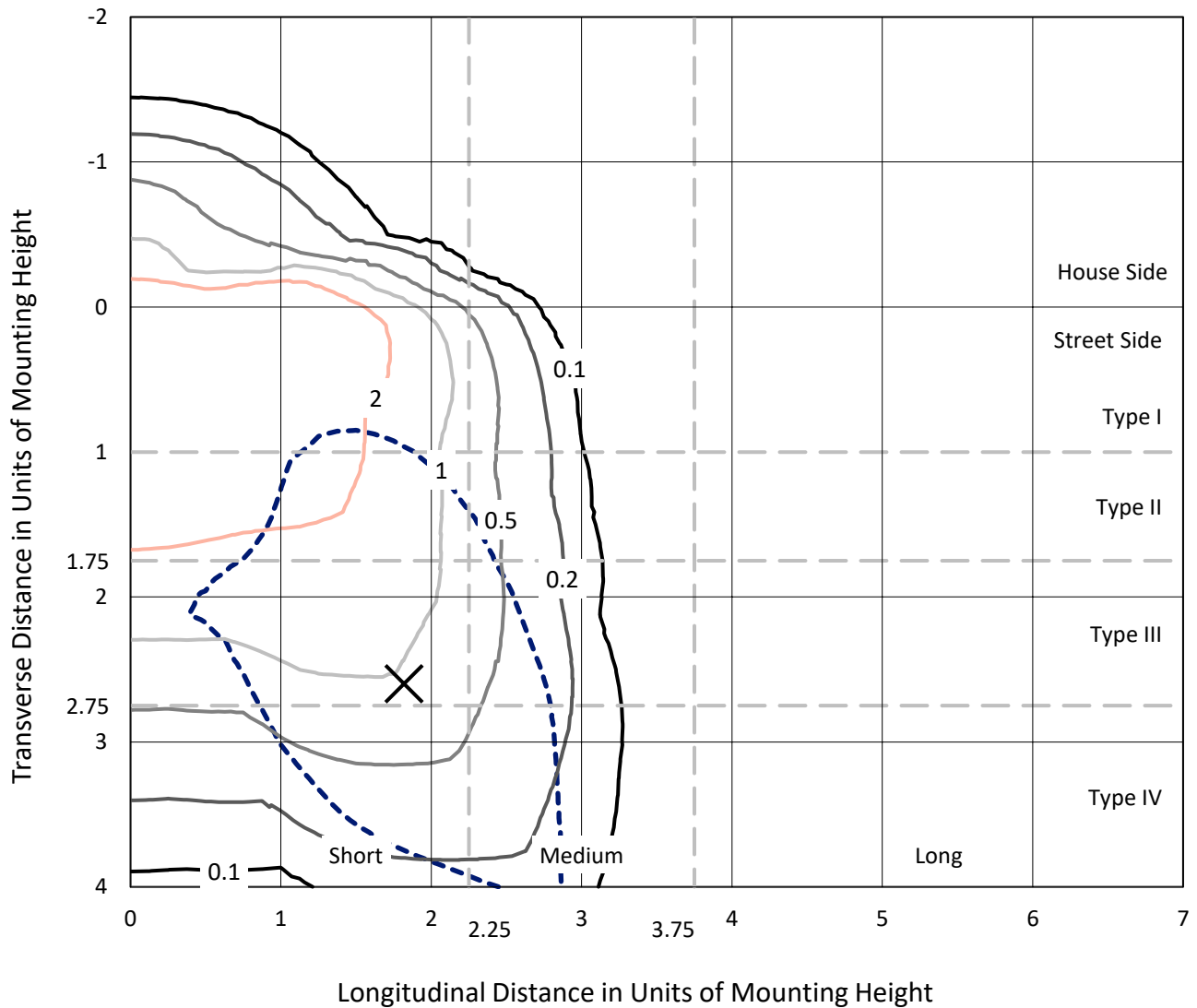
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

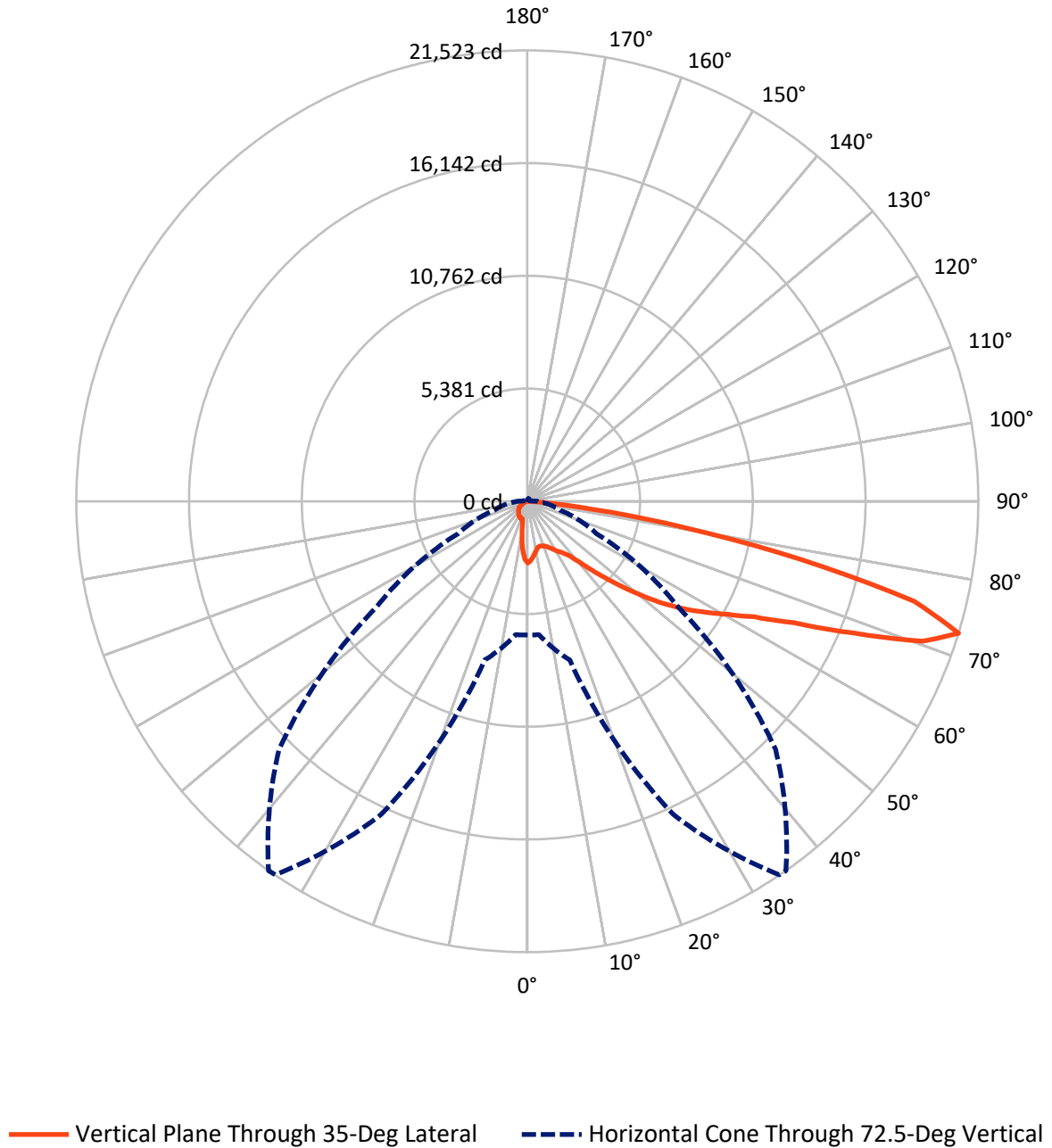
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2283.9	0.0	2283.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18009.1	0.0	18009.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	20293.0	0.0	20293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	1.2
10°-20°	565.4	2.8
20°-30°	918.5	4.5
30°-40°	1532.4	7.6
40°-50°	2899.4	14.3
50°-60°	4607.2	22.7
60°-70°	5699.4	28.1
70°-80°	3542.8	17.5
80°-90°	286.3	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°	20293.0	100.0
0°-180°	20293.0	100.0

Coefficient of Utilization



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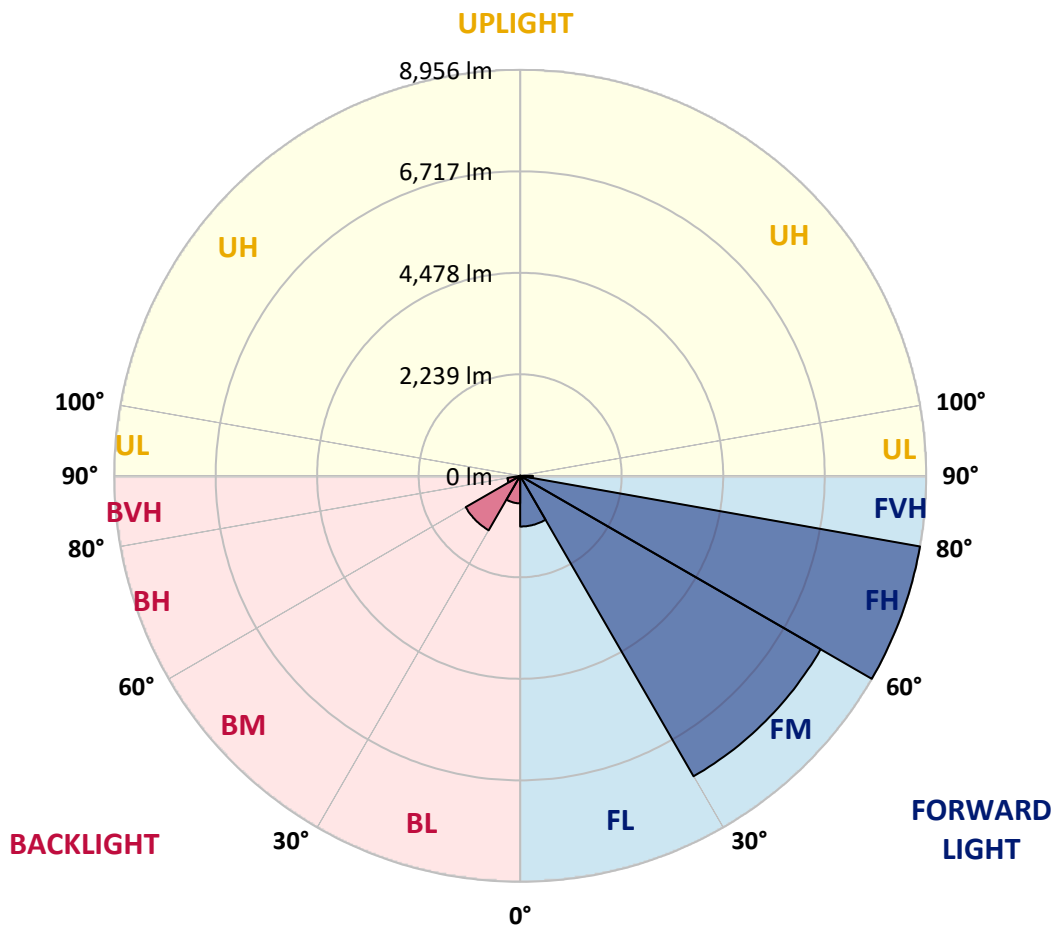
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.7	5.5			
FM (30°-60°)	7652.5	37.7			
FH (60°-80°)	8955.5	44.1			G4/12000
FVH (80°-90°)	282.4	1.4			G3/500
BL (0°-30°)	606.9	3.0	B2/1000		
BM (30°-60°)	1386.5	6.8	B2/2500		
BH (60°-80°)	286.6	1.4	B1/500		G1/500
BVH (80°-90°)	3.9	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°	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1
2.5°	2810.3	2834.1	2838.5	2846.0	2846.0	2854.9	2869.8	2890.6	2924.8	2942.6	2954.5
5°	2590.2	2608.1	2630.4	2648.2	2682.4	2686.9	2744.9	2801.4	2880.2	2939.6	2981.3
7.5°	2368.7	2389.5	2419.2	2462.3	2507.0	2520.3	2608.1	2703.2	2828.1	2939.6	3009.5
10°	2212.5	2214.0	2240.8	2283.9	2355.3	2371.6	2478.7	2614.0	2770.1	2921.8	3036.3
12.5°	2124.8	2135.2	2147.1	2179.8	2248.2	2258.6	2373.1	2532.2	2712.1	2911.4	3067.5
15°	2124.8	2132.2	2139.7	2156.0	2211.1	2220.0	2321.1	2480.2	2682.4	2915.9	3118.1
17.5°	2147.1	2159.0	2153.1	2172.4	2230.4	2236.3	2325.5	2465.3	2680.9	2944.1	3195.4
20°	2200.6	2209.6	2197.7	2209.6	2267.6	2279.5	2371.6	2493.6	2706.2	2993.2	3292.1
22.5°	2285.4	2289.9	2261.6	2270.5	2330.0	2344.9	2451.9	2573.9	2767.2	3072.0	3421.4
25°	2392.5	2401.4	2358.3	2368.7	2425.2	2443.0	2566.4	2694.3	2863.8	3180.5	3586.5
27.5°	2515.9	2520.3	2483.2	2481.7	2554.5	2579.8	2704.7	2843.0	2993.2	3317.3	3794.6
30°	2657.1	2670.5	2634.8	2628.9	2721.1	2741.9	2865.3	3025.9	3183.5	3522.5	4090.5
32.5°	2768.7	2779.1	2758.2	2773.1	2866.8	2883.1	3060.1	3284.6	3482.4	3814.0	4493.5
35°	2929.2	2935.2	2887.6	2914.4	3021.4	3063.1	3326.2	3647.4	3858.6	4179.7	5019.9
37.5°	3510.6	3510.6	3308.4	3176.1	3278.7	3315.8	3690.5	4103.9	4322.5	4670.4	5683.0
40°	4315.1	4301.7	4005.8	3735.2	3721.8	3794.6	4209.5	4679.4	4921.7	5259.3	6429.5
42.5°	5173.0	5152.2	4749.2	4481.6	4437.0	4462.3	4808.7	5388.6	5635.4	5977.4	7232.4
45°	5934.3	5928.4	5559.6	5199.8	5119.5	5199.8	5556.6	6218.3	6395.3	6755.1	8033.9
47.5°	6572.2	6572.2	6303.1	6068.1	6026.5	6074.1	6569.2	7138.7	7122.4	7583.3	8814.5
50°	7306.7	7300.8	7045.0	6943.9	6987.1	7054.0	7735.0	8108.2	7874.8	8396.7	9511.9
52.5°	7821.2	7856.9	7769.2	7752.8	7972.9	8088.9	8918.6	9056.9	8548.3	9168.4	10033.8
55°	8228.6	8270.3	8371.4	8485.9	8909.6	9061.3	10065.0	9956.4	9111.9	9837.5	10334.1
57.5°	8805.6	8746.1	8902.2	9128.2	9813.7	9996.6	11175.7	10805.5	9565.4	10380.2	10366.8
60°	9505.9	9514.8	9541.6	9827.1	10716.3	10951.2	12270.1	11608.4	9856.8	10713.3	10004.0
62.5°	10347.5	10360.9	10415.9	10854.5	11928.1	12149.7	13435.8	12265.6	9990.6	10619.6	9067.3
65°	10289.5	10346.0	10960.1	12460.4	13770.4	13989.0	14796.4	12726.6	9788.4	9763.1	7382.6
67.5°	9373.6	9465.8	10493.2	14378.6	16548.0	16791.8	16440.9	12817.3	8915.6	7592.2	4816.1
70°	8172.1	8204.8	9440.5	16103.4	19764.2	20011.0	17913.0	11819.6	6765.5	4234.8	2157.5
72.5°	6381.9	6389.3	7839.1	16503.4	21509.8	21523.2	16757.6	8774.3	3638.5	1626.7	749.4
75°	4558.9	4514.3	5250.3	13383.8	18924.1	19075.8	12563.0	4115.8	1390.3	768.7	373.2
77.5°	2444.5	2493.6	2970.9	7937.2	13073.0	13331.8	6854.7	1186.6	707.8	523.4	246.8
80°	755.4	797.0	1217.8	3634.0	7404.9	7561.0	2541.2	527.9	493.7	373.2	162.1
82.5°	237.9	246.8	568.0	1527.1	3073.5	3144.8	736.0	298.9	337.5	246.8	95.2
85°	68.4	69.9	252.8	569.5	759.8	774.7	206.7	116.0	193.3	153.2	49.1
87.5°	7.4	23.8	95.2	95.2	66.9	65.4	22.3	25.3	55.0	19.3	8.9
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°	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1	2941.1
2.5°	2947.1	2948.6	2929.2	2896.5	2860.8	2831.1	2793.9	2764.2	2743.4	2737.4	2747.8
5°	2967.9	2957.5	2902.5	2802.9	2683.9	2581.3	2466.8	2376.1	2316.6	2291.4	2300.3
7.5°	2999.1	2969.4	2848.9	2652.7	2425.2	2223.0	2017.8	1858.7	1757.5	1707.0	1714.4
10°	3025.9	2966.4	2759.7	2435.6	2087.6	1781.3	1504.8	1313.0	1205.9	1155.3	1156.8
12.5°	3051.2	2964.9	2643.8	2178.3	1707.0	1332.3	1075.0	979.9	950.1	939.7	936.8
15°	3098.8	2969.4	2498.0	1883.9	1327.8	1006.6	913.0	911.5	917.4	914.5	913.0
17.5°	3164.2	2973.8	2333.0	1571.7	1024.5	887.7	883.2	896.6	905.5	901.1	899.6
20°	3248.9	2991.7	2157.5	1262.4	880.3	858.0	868.4	880.3	887.7	880.3	878.8
22.5°	3367.9	3022.9	1965.7	1014.1	834.2	840.1	849.0	862.4	869.9	859.4	858.0
25°	3513.6	3072.0	1776.9	881.7	811.9	819.3	832.7	847.5	856.5	846.1	844.6
27.5°	3702.4	3150.8	1602.9	852.0	789.6	794.0	813.3	835.7	847.5	834.2	834.2
30°	3976.0	3280.2	1452.7	865.4	776.2	765.8	792.5	823.8	837.1	825.2	823.8
32.5°	4338.8	3463.0	1360.5	886.2	770.2	733.1	758.3	798.5	820.8	813.3	813.3
35°	4814.7	3741.1	1324.8	910.0	765.8	698.9	716.7	759.8	798.5	805.9	805.9
37.5°	5391.6	4127.7	1335.3	920.4	752.4	670.6	679.5	716.7	767.3	791.0	797.0
40°	6047.3	4578.2	1394.7	910.0	737.5	646.8	648.3	676.6	721.2	756.8	768.7
42.5°	6723.9	5104.6	1504.8	871.3	724.1	626.0	621.5	640.9	670.6	695.9	706.3
45°	7367.7	5645.9	1613.3	817.8	707.8	605.2	594.8	602.2	608.2	618.6	624.5
47.5°	7929.8	6026.5	1582.1	768.7	685.5	581.4	563.5	560.6	542.7	541.2	539.8
50°	8317.9	6109.8	1405.1	719.7	652.8	554.6	526.4	508.5	477.3	462.4	463.9
52.5°	8441.3	5781.2	1147.9	670.6	599.2	518.9	478.8	450.5	411.9	398.5	397.0
55°	8277.7	5137.3	917.4	611.1	524.9	471.4	426.7	389.6	358.3	342.0	342.0
57.5°	7877.7	4318.0	725.6	541.2	446.1	417.8	373.2	336.0	309.3	292.9	290.0
60°	7214.6	3428.8	574.0	458.0	380.7	359.8	313.7	290.0	266.2	246.8	242.4
62.5°	6207.9	2447.5	450.5	362.8	318.2	294.4	267.6	249.8	221.6	194.8	190.3
65°	4844.4	1497.3	347.9	266.2	255.8	243.9	227.5	211.1	176.9	150.2	145.7
67.5°	3055.6	709.3	248.3	200.7	202.2	196.3	188.8	175.5	150.2	126.4	123.4
70°	1345.7	343.5	163.6	153.2	150.2	150.2	156.1	151.7	127.9	105.6	101.1
72.5°	458.0	184.4	121.9	116.0	108.5	107.1	130.8	126.4	102.6	81.8	77.3
75°	239.4	123.4	89.2	83.3	65.4	78.8	104.1	98.1	72.9	53.5	49.1
77.5°	156.1	87.7	61.0	53.5	37.2	52.0	77.3	68.4	43.1	26.8	23.8
80°	98.1	58.0	35.7	25.3	17.8	28.3	41.6	29.7	16.4	5.9	4.5
82.5°	52.0	29.7	13.4	8.9	7.4	8.9	10.4	7.4	3.0	0.0	0.0
85°	20.8	10.4	4.5	3.0	1.5	0.0	3.0	1.5	0.0	0.0	0.0
87.5°	7.4	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)