

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: P885110

Luminaire Tested: **NAV-SB6B-727-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885110  
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-727-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

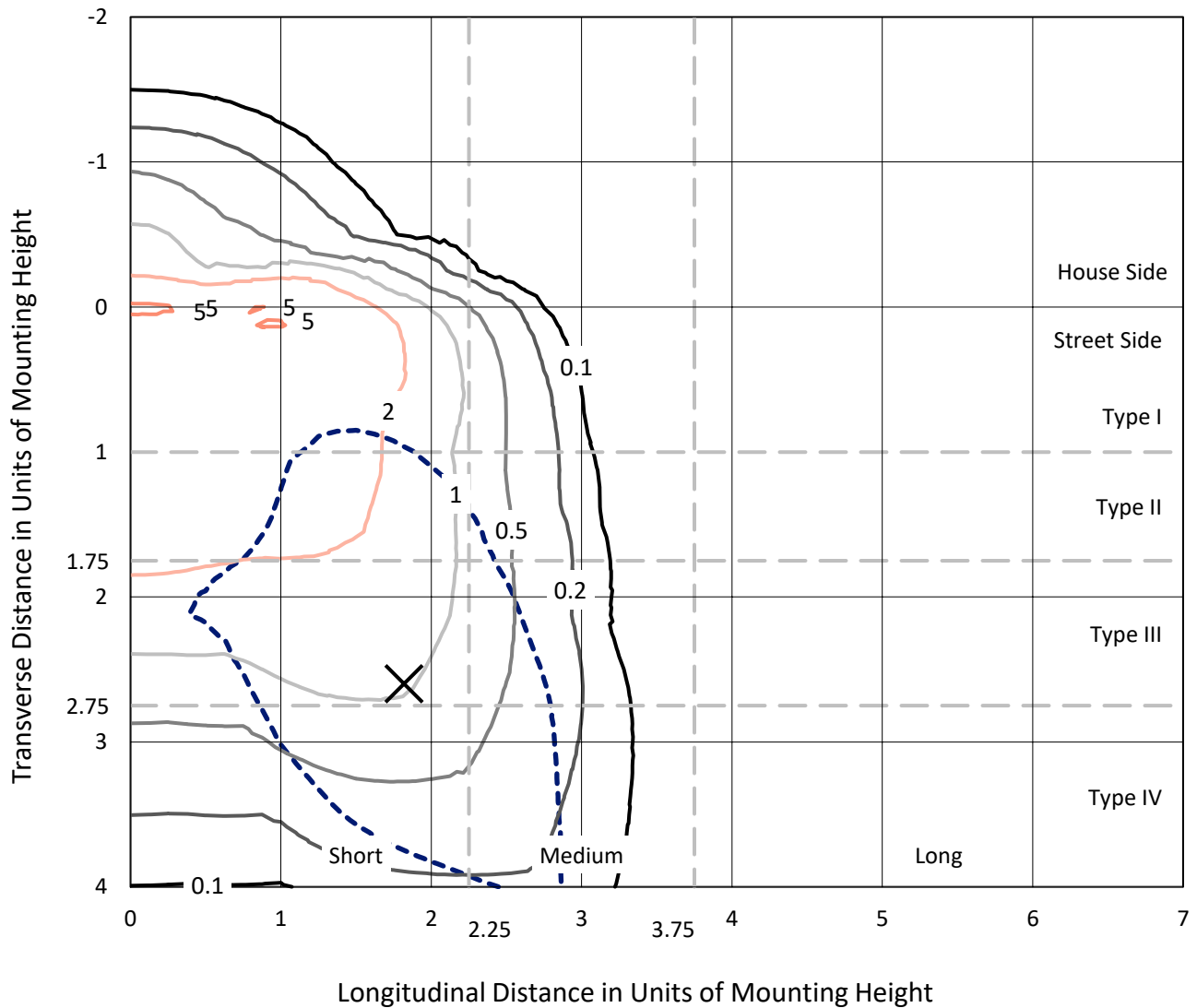
Lumens per Lamp: N/A  
Luminaire Lumens: 23452 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

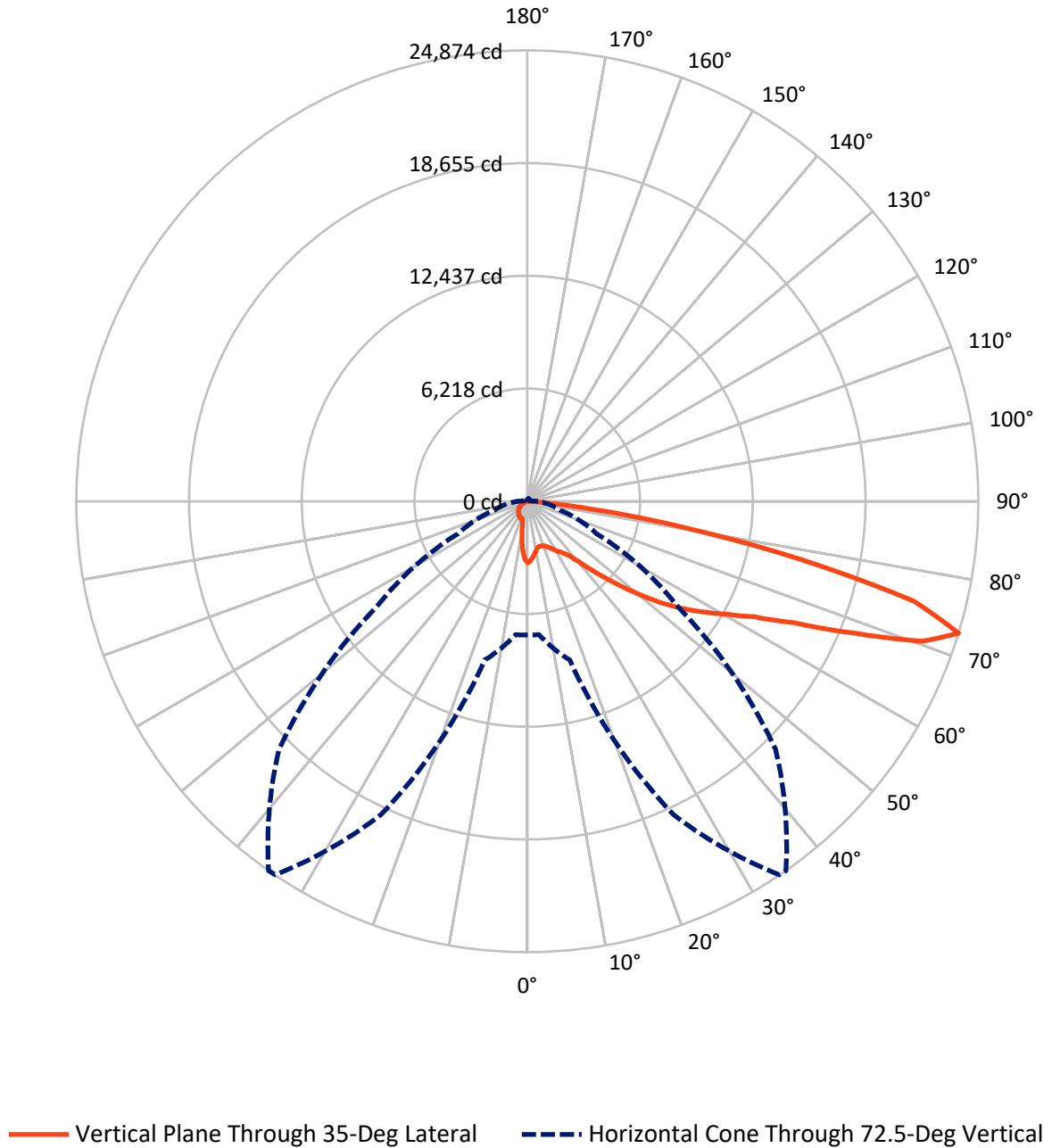
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2639.4	0.0	2639.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	20812.6	0.0	20812.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	23452.0	0.0	23452.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.3	1.2
10°-20°	653.4	2.8
20°-30°	1061.4	4.5
30°-40°	1771.0	7.6
40°-50°	3350.8	14.3
50°-60°	5324.3	22.7
60°-70°	6586.6	28.1
70°-80°	4094.3	17.5
80°-90°	330.9	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°	23452.0	100.0
0°-180°	23452.0	100.0

**Coefficient of Utilization**



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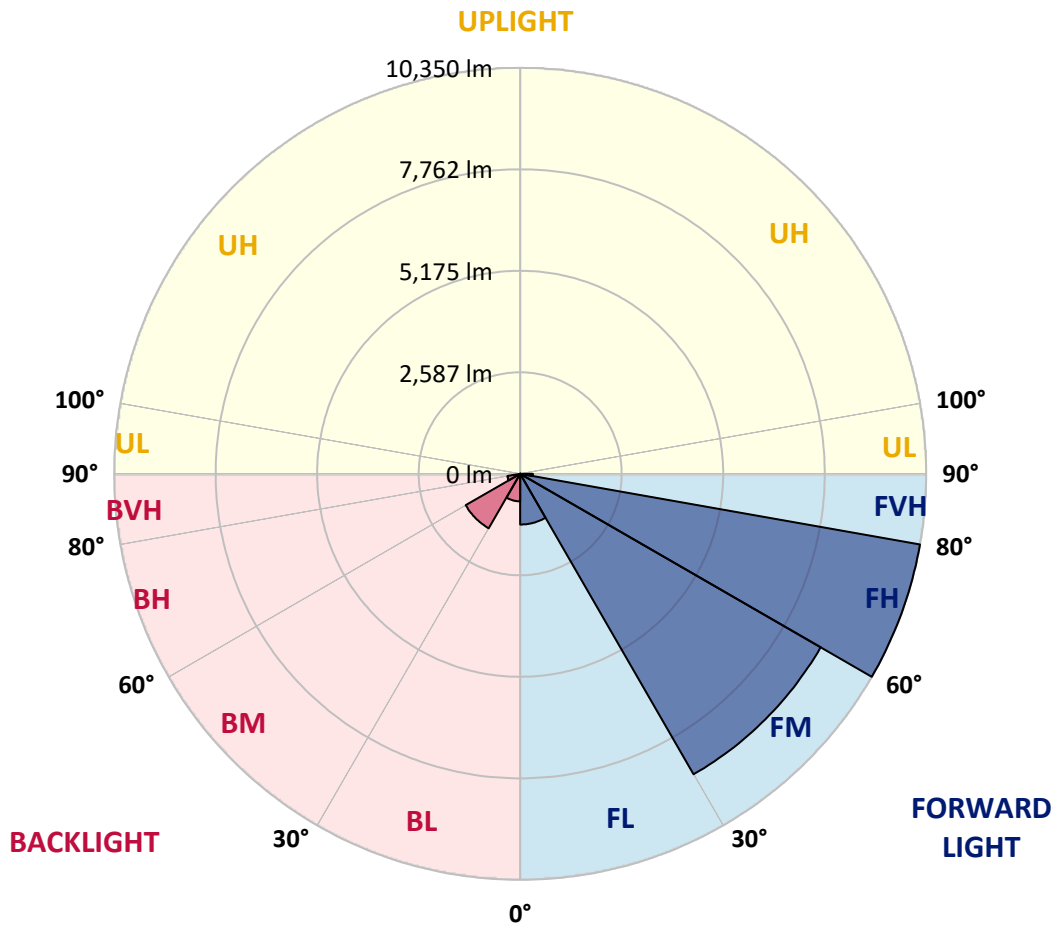
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1292.8	5.5			
FM (30°-60°)	8843.8	37.7			
FH (60°-80°)	10349.7	44.1			G4/12000
FVH (80°-90°)	326.4	1.4			G3/500
BL (0°-30°)	701.3	3.0	B2/1000		
BM (30°-60°)	1602.4	6.8	B2/2500		
BH (60°-80°)	331.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.5	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°	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0
2.5°	3247.8	3275.3	3280.4	3289.0	3289.0	3299.3	3316.5	3340.6	3380.1	3400.7	3414.4
5°	2993.4	3014.1	3039.8	3060.5	3100.0	3105.1	3172.2	3237.5	3328.5	3397.3	3445.4
7.5°	2737.4	2761.5	2795.8	2845.7	2897.2	2912.7	3014.1	3124.0	3268.4	3397.3	3478.0
10°	2557.0	2558.7	2589.6	2639.5	2721.9	2740.8	2864.6	3020.9	3201.4	3376.6	3509.0
12.5°	2455.6	2467.6	2481.4	2519.2	2598.2	2610.2	2742.6	2926.4	3134.3	3364.6	3545.0
15°	2455.6	2464.2	2472.8	2491.7	2555.3	2565.6	2682.4	2866.3	3100.0	3369.8	3603.5
17.5°	2481.4	2495.1	2488.2	2510.6	2577.6	2584.5	2687.6	2849.1	3098.3	3402.4	3692.8
20°	2543.2	2553.5	2539.8	2553.5	2620.5	2634.3	2740.8	2881.7	3127.5	3459.1	3804.5
22.5°	2641.2	2646.3	2613.7	2624.0	2692.7	2709.9	2833.6	2974.5	3197.9	3550.2	3954.0
25°	2764.9	2775.2	2725.4	2737.4	2802.7	2823.3	2965.9	3113.7	3309.6	3675.6	4144.8
27.5°	2907.5	2912.7	2869.7	2868.0	2952.2	2981.4	3125.8	3285.6	3459.1	3833.7	4385.3
30°	3070.8	3086.2	3045.0	3038.1	3144.7	3168.7	3311.3	3496.9	3679.1	4070.9	4727.3
32.5°	3199.6	3211.7	3187.6	3204.8	3313.1	3332.0	3536.5	3795.9	4024.5	4407.7	5193.0
35°	3385.2	3392.1	3337.1	3368.1	3491.8	3539.9	3844.0	4215.2	4459.2	4830.4	5801.3
37.5°	4057.1	4057.1	3823.4	3670.5	3789.1	3832.0	4265.1	4742.8	4995.4	5397.5	6567.7
40°	4986.8	4971.3	4629.4	4316.6	4301.1	4385.3	4864.8	5407.8	5687.9	6078.0	7430.3
42.5°	5978.3	5954.2	5488.5	5179.2	5127.7	5156.9	5557.3	6227.5	6512.7	6907.9	8358.3
45°	6858.1	6851.2	6425.1	6009.2	5916.4	6009.2	6421.6	7186.3	7390.8	7806.7	9284.5
47.5°	7595.3	7595.3	7284.3	7012.8	6964.6	7019.6	7591.9	8250.0	8231.1	8763.8	10186.6
50°	8444.2	8437.3	8141.7	8024.9	8074.7	8152.1	8939.1	9370.4	9100.6	9703.8	10992.6
52.5°	9038.7	9080.0	8978.6	8959.7	9214.0	9348.1	10306.9	10466.7	9879.0	10595.6	11595.7
55°	9509.6	9557.7	9674.6	9806.9	10296.6	10471.9	11631.8	11506.4	10530.3	11368.9	11942.8
57.5°	10176.3	10107.6	10288.0	10549.2	11341.4	11552.8	12915.4	12487.6	11054.4	11996.1	11980.6
60°	10985.7	10996.0	11026.9	11356.9	12384.5	12656.0	14180.2	13415.5	11391.2	12381.0	11561.3
62.5°	11958.3	11973.8	12037.3	12544.3	13784.9	14041.0	15527.4	14175.0	11545.9	12272.8	10478.8
65°	11891.3	11956.6	12666.3	14400.1	15914.0	16166.6	17099.7	14707.7	11312.2	11283.0	8531.8
67.5°	10832.7	10939.3	12126.7	16616.9	19124.0	19405.8	19000.3	14812.5	10303.5	8774.1	5565.9
70°	9444.3	9482.1	10910.1	18610.2	22840.9	23126.1	20701.5	13659.5	7818.7	4894.0	2493.4
72.5°	7375.3	7383.9	9059.4	19072.4	24858.3	24873.7	19366.3	10140.2	4204.9	1879.9	866.1
75°	5268.6	5217.0	6067.6	15467.3	21870.0	22045.3	14518.7	4756.5	1606.7	888.4	431.3
77.5°	2825.0	2881.7	3433.3	9172.8	15108.1	15407.1	7921.8	1371.3	818.0	604.9	285.3
80°	872.9	921.1	1407.4	4199.8	8557.6	8738.0	2936.7	610.0	570.5	431.3	187.3
82.5°	274.9	285.3	656.4	1764.8	3551.9	3634.4	850.6	345.4	390.1	285.3	110.0
85°	79.0	80.8	292.1	658.1	878.1	895.3	238.9	134.0	223.4	177.0	56.7
87.5°	8.6	27.5	110.0	110.0	77.3	75.6	25.8	29.2	63.6	22.3	10.3
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°	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0	3399.0
2.5°	3405.9	3407.6	3385.2	3347.4	3306.2	3271.8	3228.9	3194.5	3170.4	3163.6	3175.6
5°	3429.9	3417.9	3354.3	3239.2	3101.7	2983.1	2850.8	2746.0	2677.3	2648.0	2658.4
7.5°	3466.0	3431.6	3292.4	3065.6	2802.7	2569.0	2331.9	2148.0	2031.1	1972.7	1981.3
10°	3496.9	3428.2	3189.3	2814.7	2412.6	2058.6	1739.0	1517.3	1393.6	1335.2	1336.9
12.5°	3526.1	3426.5	3055.3	2517.4	1972.7	1539.7	1242.4	1132.4	1098.1	1086.0	1082.6
15°	3581.1	3431.6	2886.9	2177.2	1534.5	1163.4	1055.1	1053.4	1060.2	1056.8	1055.1
17.5°	3656.7	3436.8	2696.2	1816.3	1184.0	1025.9	1020.7	1036.2	1046.5	1041.3	1039.6
20°	3754.7	3457.4	2493.4	1458.9	1017.3	991.5	1003.5	1017.3	1025.9	1017.3	1015.6
22.5°	3892.2	3493.5	2271.7	1171.9	964.0	970.9	981.2	996.7	1005.3	993.2	991.5
25°	4060.6	3550.2	2053.5	1019.0	938.2	946.8	962.3	979.5	989.8	977.8	976.0
27.5°	4278.8	3641.3	1852.4	984.6	912.5	917.6	940.0	965.7	979.5	964.0	964.0
30°	4595.0	3790.8	1678.9	1000.1	897.0	885.0	915.9	952.0	967.5	953.7	952.0
32.5°	5014.3	4002.1	1572.3	1024.2	890.1	847.2	876.4	922.8	948.6	940.0	940.0
35°	5564.2	4323.5	1531.1	1051.7	885.0	807.6	828.3	878.1	922.8	931.4	931.4
37.5°	6230.9	4770.3	1543.1	1063.7	869.5	775.0	785.3	828.3	886.7	914.2	921.1
40°	6988.7	5290.9	1611.9	1051.7	852.3	747.5	749.2	781.9	833.4	874.7	888.4
42.5°	7770.6	5899.2	1739.0	1007.0	836.9	723.4	718.3	740.6	775.0	804.2	816.2
45°	8514.6	6524.7	1864.5	945.1	818.0	699.4	687.4	695.9	702.8	714.9	721.7
47.5°	9164.2	6964.6	1828.4	888.4	792.2	671.9	651.3	647.8	627.2	625.5	623.8
50°	9612.7	7060.9	1623.9	831.7	754.4	641.0	608.3	587.7	551.6	534.4	536.1
52.5°	9755.3	6681.1	1326.6	775.0	692.5	599.7	553.3	520.7	476.0	460.5	458.8
55°	9566.3	5937.0	1060.2	706.3	606.6	544.7	493.2	450.2	414.1	395.2	395.2
57.5°	9104.0	4990.2	838.6	625.5	515.5	482.9	431.3	388.4	357.4	338.5	335.1
60°	8337.6	3962.6	663.3	529.3	439.9	415.9	362.6	335.1	307.6	285.3	280.1
62.5°	7174.3	2828.5	520.7	419.3	367.7	340.2	309.3	288.7	256.0	225.1	220.0
65°	5598.5	1730.4	402.1	307.6	295.6	281.8	262.9	244.0	204.5	173.6	168.4
67.5°	3531.3	819.7	287.0	232.0	233.7	226.8	218.2	202.8	173.6	146.1	142.6
70°	1555.1	396.9	189.0	177.0	173.6	173.6	180.4	175.3	147.8	122.0	116.9
72.5°	529.3	213.1	140.9	134.0	125.4	123.7	151.2	146.1	118.6	94.5	89.4
75°	276.7	142.6	103.1	96.2	75.6	91.1	120.3	113.4	84.2	61.9	56.7
77.5°	180.4	101.4	70.5	61.9	43.0	60.1	89.4	79.0	49.8	30.9	27.5
80°	113.4	67.0	41.2	29.2	20.6	32.6	48.1	34.4	18.9	6.9	5.2
82.5°	60.1	34.4	15.5	10.3	8.6	10.3	12.0	8.6	3.4	0.0	0.0
85°	24.1	12.0	5.2	3.4	1.7	0.0	3.4	1.7	0.0	0.0	0.0
87.5°	8.6	1.7	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)