

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: P964639

Luminaire Tested: **NAV-SB3C-750-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-750-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18449 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

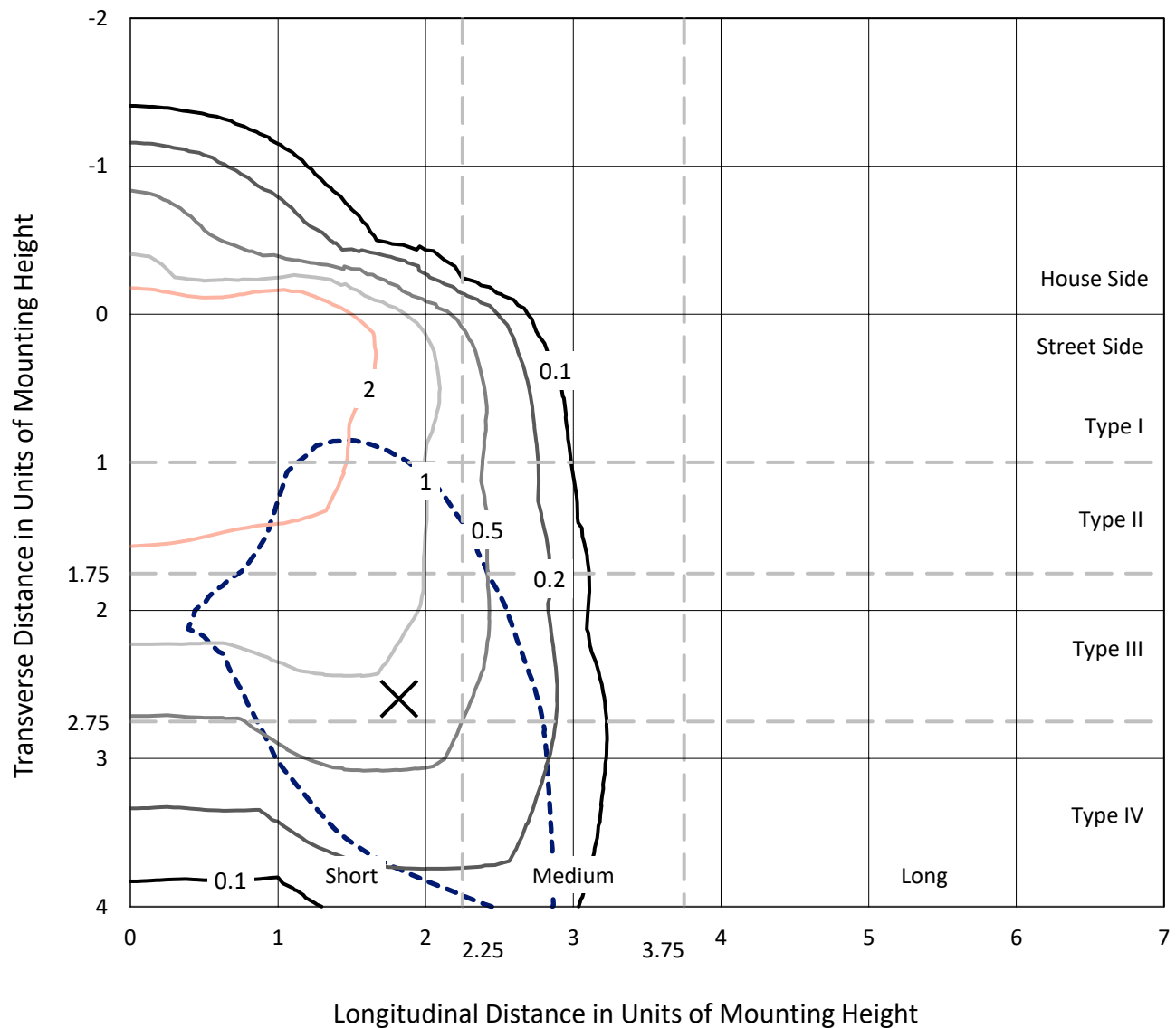
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

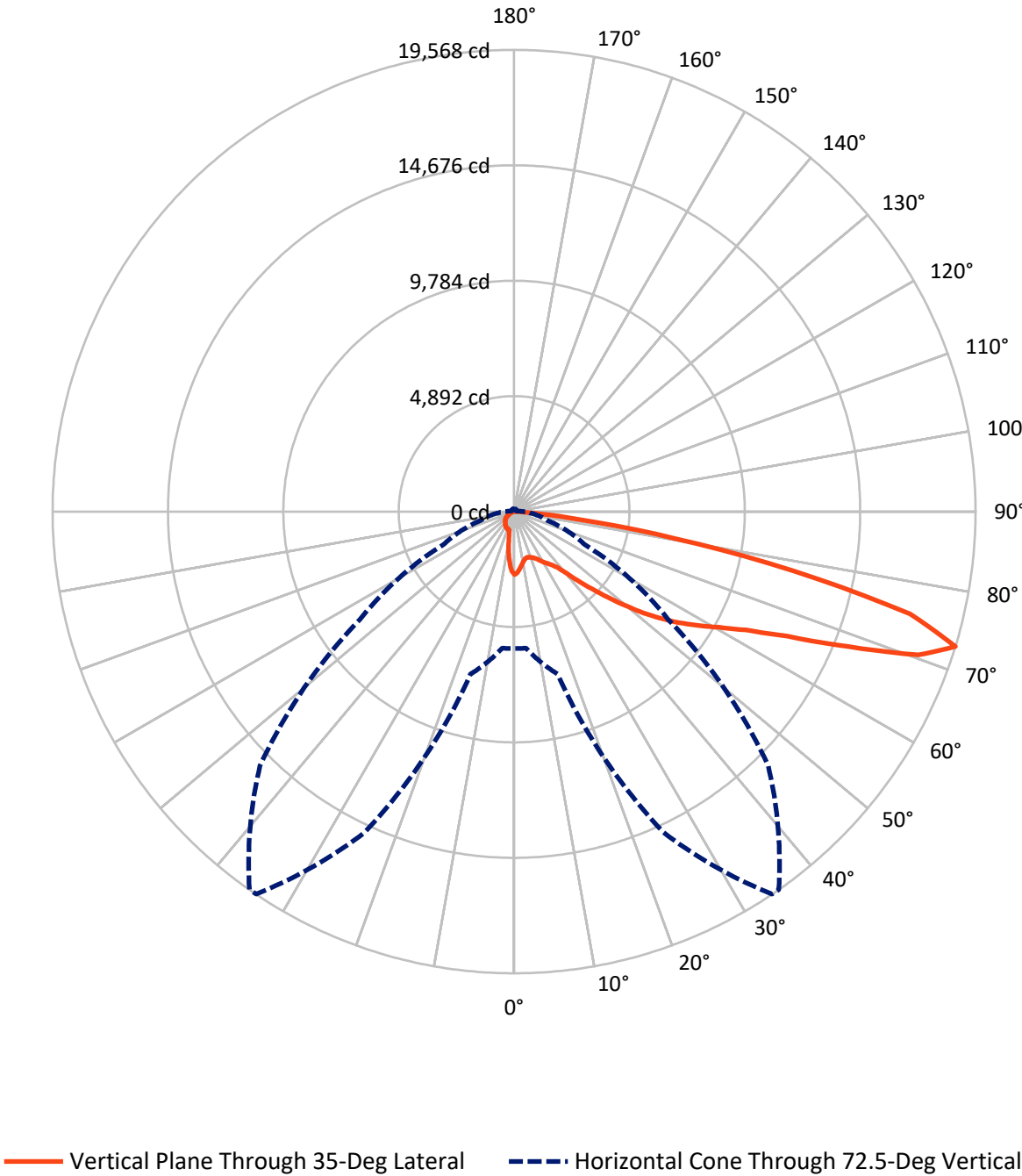
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2076.3	0.0	2076.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16372.6	0.0	16372.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	18449.0	0.0	18449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	1.2
10°-20°	514.0	2.8
20°-30°	835.0	4.5
30°-40°	1393.2	7.6
40°-50°	2636.0	14.3
50°-60°	4188.5	22.7
60°-70°	5181.5	28.1
70°-80°	3220.8	17.5
80°-90°	260.3	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°	18449.0	100.0
0°-180°	18449.0	100.0

Coefficient of Utilization



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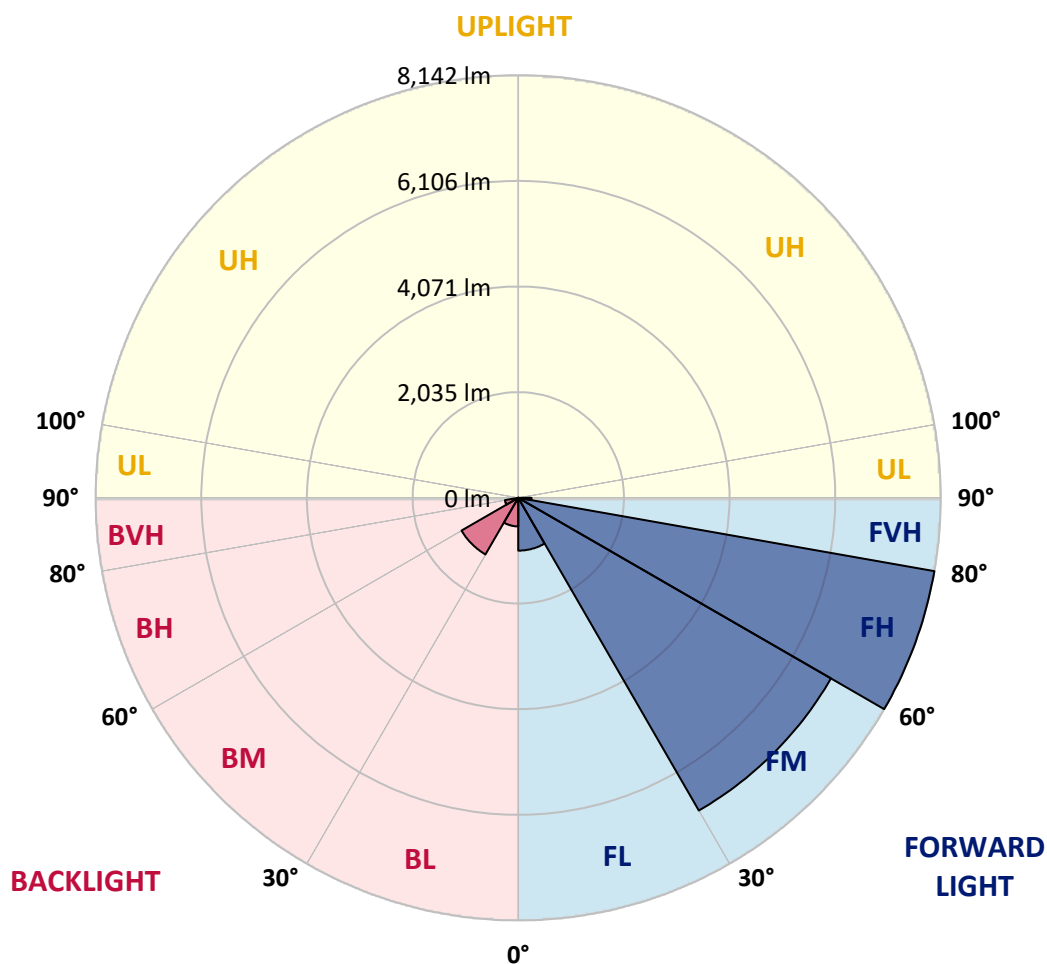
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1017.0	5.5			
FM	(30°-60°)	6957.1	37.7			
FH	(60°-80°)	8141.8	44.1			G4/12000
FVH	(80°-90°)	256.7	1.4			G3/500
BL	(0°-30°)	551.7	3.0	B2/1000		
BM	(30°-60°)	1260.5	6.8	B2/2500		
BH	(60°-80°)	260.5	1.4	B1/500		G1/500
BVH	(80°-90°)	3.5	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°	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9
2.5°	2554.9	2576.5	2580.6	2587.4	2587.4	2595.5	2609.0	2627.9	2659.1	2675.2	2686.0
5°	2354.8	2371.0	2391.3	2407.5	2438.7	2442.7	2495.5	2546.8	2618.5	2672.5	2710.4
7.5°	2153.4	2172.4	2199.3	2238.6	2279.2	2291.3	2371.0	2457.5	2571.1	2672.5	2736.0
10°	2011.5	2012.8	2037.2	2076.3	2141.2	2156.1	2253.5	2376.5	2518.4	2656.3	2760.4
12.5°	1931.7	1941.1	1952.0	1981.7	2044.0	2053.4	2157.5	2302.1	2465.7	2646.9	2788.8
15°	1931.7	1938.5	1945.2	1960.1	2010.1	2018.2	2110.2	2254.8	2438.7	2650.9	2834.7
17.5°	1952.0	1962.9	1957.4	1975.0	2027.8	2033.1	2114.3	2241.3	2437.3	2676.6	2905.1
20°	2000.7	2008.8	1997.9	2008.8	2061.5	2072.3	2156.1	2267.0	2460.3	2721.2	2992.9
22.5°	2077.8	2081.8	2056.1	2064.2	2118.3	2131.8	2229.2	2340.0	2515.8	2792.8	3110.5
25°	2175.0	2183.1	2144.0	2153.4	2204.8	2221.0	2333.2	2449.4	2603.6	2891.5	3260.5
27.5°	2287.3	2291.3	2257.6	2256.1	2322.4	2345.4	2459.0	2584.6	2721.2	3015.9	3449.8
30°	2415.7	2427.8	2395.4	2390.0	2473.8	2492.7	2604.9	2750.9	2894.2	3202.4	3718.8
32.5°	2517.1	2526.5	2507.6	2521.1	2606.3	2621.1	2782.1	2986.1	3165.9	3467.4	4085.1
35°	2663.1	2668.5	2625.2	2649.5	2746.9	2784.7	3024.0	3316.0	3508.0	3799.9	4563.7
37.5°	3191.6	3191.6	3007.8	2887.4	2980.7	3014.5	3355.2	3731.0	3929.7	4246.1	5166.6
40°	3923.0	3910.8	3641.7	3395.7	3383.5	3449.8	3826.9	4254.2	4474.4	4781.3	5845.2
42.5°	4702.9	4684.0	4317.7	4074.4	4033.8	4056.7	4371.7	4899.0	5123.4	5434.2	6575.2
45°	5395.1	5389.7	5054.4	4727.3	4654.3	4727.3	5051.7	5653.3	5814.1	6141.3	7303.8
47.5°	5975.0	5975.0	5730.3	5516.8	5478.8	5522.1	5972.3	6490.0	6475.1	6894.3	8013.6
50°	6642.8	6637.4	6404.8	6313.0	6352.1	6413.0	7032.1	7371.4	7159.2	7633.7	8647.5
52.5°	7110.5	7142.9	7063.2	7048.3	7248.4	7353.9	8108.2	8233.8	7771.6	8335.2	9122.0
55°	7480.9	7518.8	7610.6	7714.8	8100.1	8237.9	9150.4	9051.7	8283.8	8943.5	9395.0
57.5°	8005.4	7951.3	8093.3	8298.7	8921.9	9088.2	10160.2	9823.6	8696.2	9437.0	9424.8
60°	8642.1	8650.2	8674.6	8934.1	9742.5	9956.0	11155.1	10553.6	8961.2	9739.8	9094.9
62.5°	9407.2	9419.4	9469.4	9868.2	10844.2	11045.6	12214.9	11151.1	9082.8	9654.6	8243.4
65°	9354.5	9405.9	9964.1	11328.1	12519.0	12717.8	13451.8	11570.1	8898.9	8876.0	6711.7
67.5°	8521.7	8605.6	9539.7	13071.9	15044.2	15265.9	14947.0	11652.6	8105.4	6902.4	4378.5
70°	7429.5	7459.2	8582.6	14640.1	17968.2	18192.6	16285.2	10745.5	6150.7	3849.9	1961.4
72.5°	5801.9	5808.7	7126.7	15003.7	19555.3	19567.5	15234.9	7977.1	3307.9	1478.9	681.3
75°	4144.7	4104.1	4773.2	12167.6	17204.4	17342.4	11421.4	3741.8	1263.9	698.8	339.3
77.5°	2222.4	2267.0	2700.9	7215.9	11885.1	12120.3	6231.8	1078.7	643.5	475.8	224.4
80°	686.7	724.6	1107.1	3303.8	6732.0	6874.0	2310.2	479.9	448.8	339.3	147.4
82.5°	216.3	224.4	516.4	1388.3	2794.1	2859.0	669.1	271.7	306.9	224.4	86.5
85°	62.2	63.6	229.8	517.7	690.7	704.3	187.9	105.5	175.7	139.2	44.6
87.5°	6.8	21.6	86.5	86.5	60.8	59.4	20.3	23.0	50.0	17.5	8.1
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°	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9	2673.9
2.5°	2679.2	2680.7	2663.1	2633.3	2600.8	2573.9	2540.1	2513.0	2494.1	2488.7	2498.1
5°	2698.2	2688.8	2638.8	2548.1	2440.0	2346.7	2242.6	2160.2	2106.1	2083.1	2091.2
7.5°	2726.6	2699.5	2590.1	2411.6	2204.8	2021.0	1834.4	1689.7	1597.9	1551.8	1558.6
10°	2750.9	2696.9	2509.0	2214.3	1897.9	1619.5	1368.1	1193.6	1096.3	1050.3	1051.8
12.5°	2774.0	2695.5	2403.5	1980.4	1551.8	1211.2	977.3	890.8	863.8	854.3	851.7
15°	2817.2	2699.5	2271.0	1712.8	1207.1	915.2	830.0	828.6	834.0	831.4	830.0
17.5°	2876.7	2703.6	2121.0	1428.8	931.4	807.0	803.0	815.2	823.3	819.2	817.8
20°	2953.7	2719.8	1961.4	1147.7	800.3	780.0	789.5	800.3	807.0	800.3	798.9
22.5°	3061.9	2748.2	1787.1	921.9	758.4	763.7	771.9	784.0	790.8	781.4	780.0
25°	3194.3	2792.8	1615.4	801.7	738.1	744.9	757.0	770.5	778.6	769.2	767.8
27.5°	3366.0	2864.5	1457.2	774.6	717.8	721.9	739.4	759.7	770.5	758.4	758.4
30°	3614.8	2982.1	1320.7	786.8	705.6	696.2	720.5	748.9	761.1	750.3	748.9
32.5°	3944.6	3148.4	1236.9	805.6	700.3	666.5	689.4	725.9	746.2	739.4	739.4
35°	4377.2	3401.2	1204.5	827.3	696.2	635.4	651.6	690.7	725.9	732.7	732.7
37.5°	4901.7	3752.6	1213.9	836.8	684.0	609.7	617.8	651.6	697.5	719.1	724.6
40°	5497.8	4162.2	1268.0	827.3	670.5	588.0	589.4	615.1	655.6	688.1	698.8
42.5°	6112.9	4640.8	1368.1	792.1	658.4	569.1	565.1	582.6	609.7	632.6	642.1
45°	6698.2	5132.8	1466.7	743.5	643.5	550.2	540.7	547.5	552.9	562.3	567.7
47.5°	7209.2	5478.8	1438.3	698.8	623.2	528.6	512.3	509.6	493.4	492.1	490.7
50°	7562.0	5554.6	1277.5	654.3	593.5	504.2	478.6	462.3	433.9	420.5	421.8
52.5°	7674.2	5255.8	1043.6	609.7	544.8	471.8	435.3	409.6	374.4	362.2	360.9
55°	7525.6	4670.5	834.0	555.6	477.1	428.6	388.0	354.1	325.7	310.9	310.9
57.5°	7161.9	3925.6	659.7	492.1	405.6	379.9	339.3	305.6	281.2	266.3	263.6
60°	6559.0	3117.2	521.8	416.4	346.0	327.2	285.3	263.6	242.0	224.4	220.4
62.5°	5643.8	2225.1	409.6	329.8	289.3	267.6	243.3	227.1	201.4	177.1	173.0
65°	4404.2	1361.3	316.3	242.0	232.5	221.7	206.8	192.0	160.8	136.5	132.4
67.5°	2778.0	644.8	225.7	182.4	183.9	178.5	171.7	159.5	136.5	114.9	112.2
70°	1223.3	312.3	148.7	139.2	136.5	136.5	142.0	137.9	116.2	95.9	91.9
72.5°	416.4	167.6	110.8	105.5	98.7	97.4	119.0	114.9	93.3	74.3	70.3
75°	217.6	112.2	81.1	75.7	59.4	71.6	94.6	89.2	66.2	48.7	44.6
77.5°	142.0	79.7	55.5	48.7	33.8	47.4	70.3	62.2	39.2	24.3	21.6
80°	89.2	52.7	32.5	23.0	16.2	25.7	37.8	27.1	14.9	5.4	4.1
82.5°	47.4	27.1	12.2	8.1	6.8	8.1	9.4	6.8	2.7	0.0	0.0
85°	19.0	9.4	4.1	2.7	1.3	0.0	2.7	1.3	0.0	0.0	0.0
87.5°	6.8	1.3	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)