

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: P884940

Luminaire Tested: **NAV-SB6A-727-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884940
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-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 18682 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

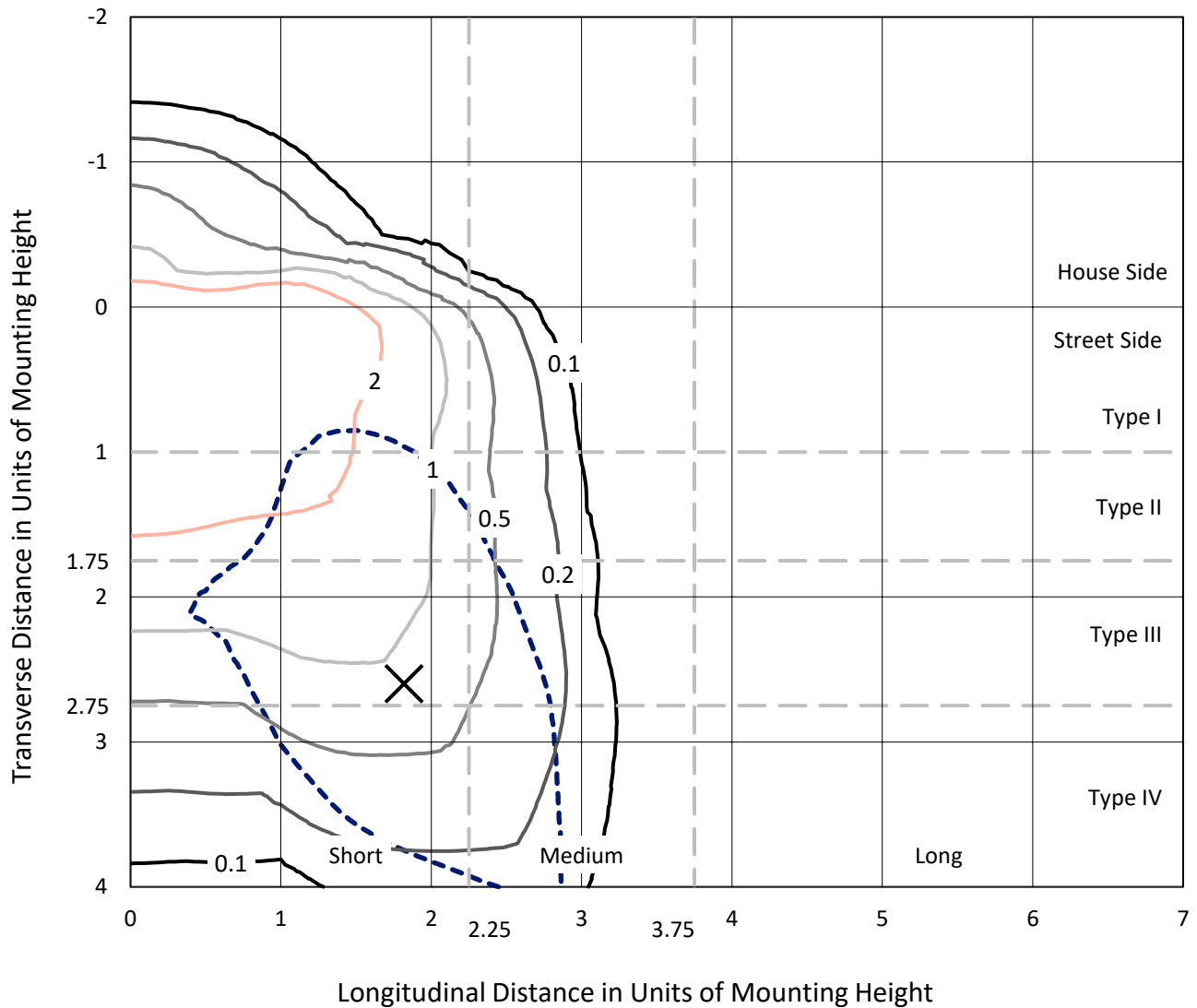
Input Watts (W): 170.9
Input Voltage (V): 120.0
Input Current (Ain): 1.434
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

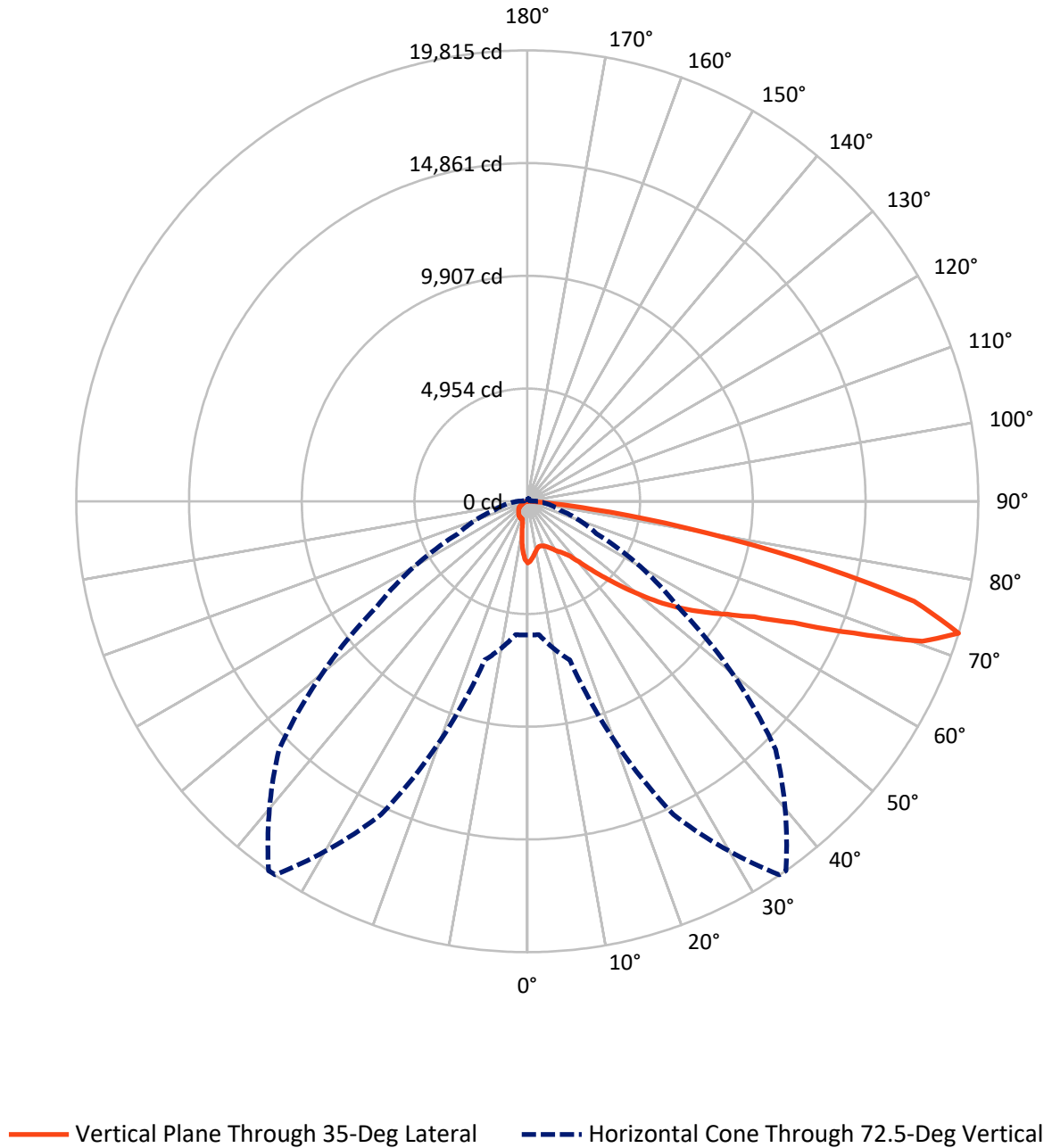
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2102.6	0.0	2102.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16579.4	0.0	16579.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	18682.0	0.0	18682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.2
10°-20°	520.5	2.8
20°-30°	845.5	4.5
30°-40°	1410.8	7.6
40°-50°	2669.2	14.3
50°-60°	4241.4	22.7
60°-70°	5246.9	28.1
70°-80°	3261.5	17.5
80°-90°	263.6	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°	18682.0	100.0
0°-180°	18682.0	100.0

Coefficient of Utilization



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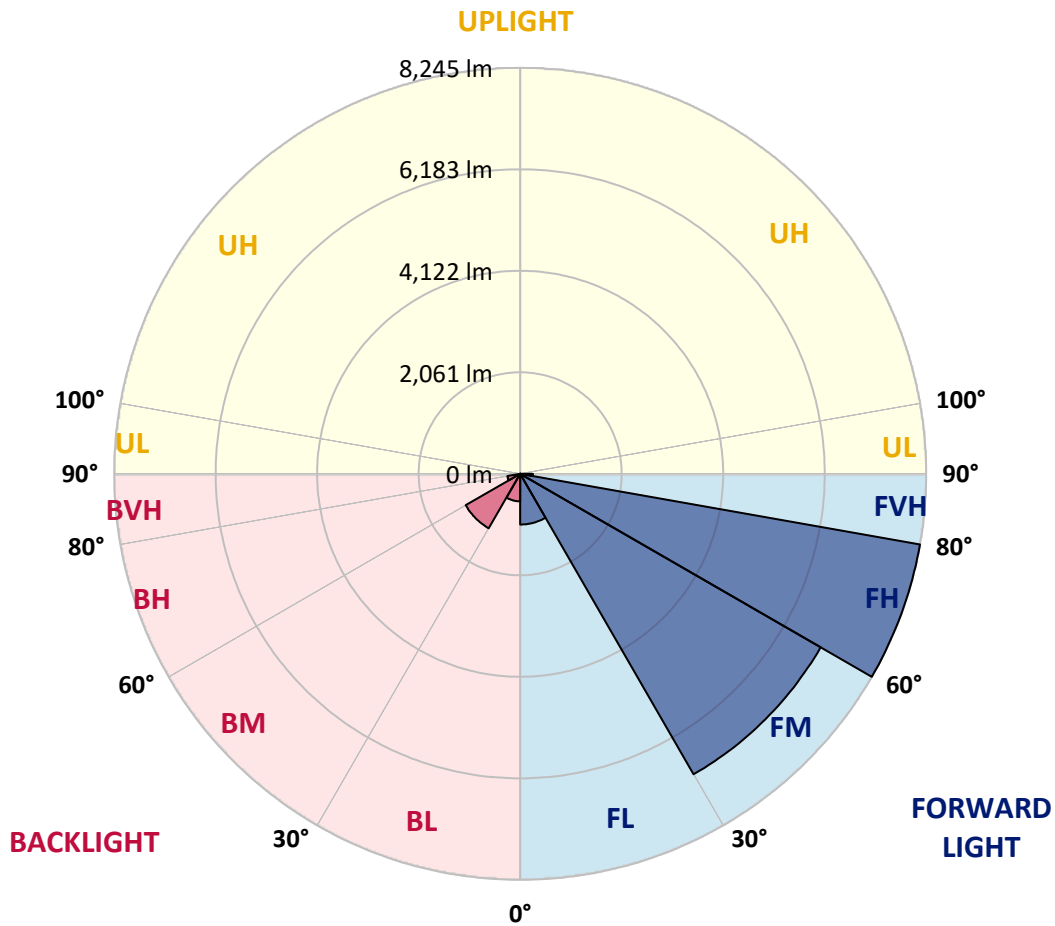
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.9	5.5			
FM (30°-60°)	7045.0	37.7			
FH (60°-80°)	8244.6	44.1			G4/12000
FVH (80°-90°)	260.0	1.4			G3/500
BL (0°-30°)	558.7	3.0	B2/1000		
BM (30°-60°)	1276.5	6.8	B2/2500		
BH (60°-80°)	263.8	1.4	B1/500		G1/500
BVH (80°-90°)	3.6	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°	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6
2.5°	2587.2	2609.1	2613.2	2620.0	2620.0	2628.3	2641.9	2661.1	2692.6	2709.0	2720.0
5°	2384.6	2401.0	2421.6	2438.0	2469.5	2473.6	2527.0	2579.0	2651.5	2706.3	2744.6
7.5°	2180.6	2199.8	2227.2	2266.9	2307.9	2320.3	2401.0	2488.6	2603.6	2706.3	2770.6
10°	2036.9	2038.3	2062.9	2102.6	2168.3	2183.4	2281.9	2406.5	2550.2	2689.9	2795.3
12.5°	1956.1	1965.7	1976.7	2006.8	2069.7	2079.3	2184.7	2331.2	2496.8	2680.3	2824.0
15°	1956.1	1963.0	1969.8	1984.9	2035.5	2043.7	2136.8	2283.3	2469.5	2684.4	2870.5
17.5°	1976.7	1987.6	1982.1	1999.9	2053.3	2058.8	2140.9	2269.6	2468.1	2710.4	2941.7
20°	2025.9	2034.2	2023.2	2034.2	2087.5	2098.5	2183.4	2295.6	2491.4	2755.6	3030.7
22.5°	2104.0	2108.1	2082.1	2090.3	2145.0	2158.7	2257.3	2369.5	2547.5	2828.1	3149.8
25°	2202.5	2210.7	2171.0	2180.6	2232.6	2249.1	2362.7	2480.4	2636.5	2928.0	3301.7
27.5°	2316.1	2320.3	2286.0	2284.7	2351.7	2375.0	2490.0	2617.3	2755.6	3054.0	3493.4
30°	2446.2	2458.5	2425.7	2420.2	2505.1	2524.2	2637.8	2785.7	2930.8	3242.9	3765.8
32.5°	2548.9	2558.4	2539.3	2553.0	2639.2	2654.3	2817.2	3023.9	3205.9	3511.2	4136.8
35°	2696.7	2702.2	2658.4	2683.0	2781.6	2819.9	3062.2	3357.9	3552.2	3847.9	4621.3
37.5°	3231.9	3231.9	3045.8	2923.9	3018.4	3052.6	3397.6	3778.1	3979.3	4299.7	5231.9
40°	3972.5	3960.2	3687.8	3438.6	3426.3	3493.4	3875.3	4307.9	4531.0	4841.7	5919.0
42.5°	4762.3	4743.2	4372.2	4125.8	4084.7	4108.0	4427.0	4960.8	5188.1	5502.9	6658.2
45°	5463.2	5457.7	5118.2	4787.0	4713.1	4787.0	5115.5	5724.7	5887.6	6218.8	7396.1
47.5°	6050.5	6050.5	5802.7	5586.4	5548.1	5591.9	6047.7	6572.0	6556.9	6981.3	8114.7
50°	6726.7	6721.2	6485.8	6392.7	6432.4	6494.0	7120.9	7464.5	7249.6	7730.1	8756.7
52.5°	7200.3	7233.2	7152.4	7137.3	7339.9	7446.7	8210.6	8337.9	7869.7	8440.5	9237.2
55°	7575.4	7613.7	7706.8	7812.2	8202.3	8342.0	9266.0	9166.0	8388.5	9056.5	9513.7
57.5°	8106.5	8051.8	8195.5	8403.6	9034.6	9203.0	10288.5	9947.7	8806.0	9556.2	9543.8
60°	8751.3	8759.5	8784.1	9046.9	9865.5	10081.8	11296.0	10686.9	9074.3	9862.8	9209.8
62.5°	9526.0	9538.4	9589.0	9992.8	10981.2	11185.1	12369.2	11291.9	9197.5	9776.6	8347.4
65°	9472.7	9524.7	10090.0	11471.2	12677.2	12878.4	13621.7	11716.3	9011.3	8988.1	6796.5
67.5°	8629.4	8714.3	9660.2	13237.1	15234.3	15458.8	15135.7	11799.8	8207.8	6989.5	4433.8
70°	7523.4	7553.5	8691.0	14825.0	18195.2	18422.4	16490.9	10881.2	6228.4	3898.6	1986.2
72.5°	5875.2	5882.1	7216.7	15193.2	19802.2	19814.6	15427.3	8077.8	3349.7	1497.6	689.9
75°	4197.0	4155.9	4833.5	12321.3	17421.8	17561.4	11565.7	3789.1	1279.9	707.7	343.6
77.5°	2250.4	2295.6	2735.0	7307.1	12035.2	12273.4	6310.5	1092.4	651.6	481.8	227.2
80°	695.4	733.7	1121.1	3345.5	6817.0	6960.8	2339.4	486.0	454.5	343.6	149.2
82.5°	219.0	227.2	522.9	1405.8	2829.5	2895.2	677.6	275.1	310.7	227.2	87.6
85°	63.0	64.3	232.7	524.3	699.5	713.2	190.3	106.8	178.0	141.0	45.2
87.5°	6.8	21.9	87.6	87.6	61.6	60.2	20.5	23.3	50.6	17.8	8.2
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°	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6	2707.6
2.5°	2713.1	2714.5	2696.7	2666.6	2633.7	2606.4	2572.1	2544.8	2525.6	2520.1	2529.7
5°	2732.3	2722.7	2672.1	2580.3	2470.8	2376.4	2271.0	2187.5	2132.7	2109.4	2117.7
7.5°	2761.0	2733.7	2622.8	2442.1	2232.6	2046.5	1857.6	1711.1	1618.0	1571.5	1578.3
10°	2785.7	2730.9	2540.6	2242.2	1921.9	1639.9	1385.3	1208.7	1110.2	1063.6	1065.0
12.5°	2808.9	2729.6	2433.9	2005.4	1571.5	1226.5	989.7	902.1	874.7	865.1	862.4
15°	2852.7	2733.7	2299.7	1734.4	1222.4	926.7	840.5	839.1	844.6	841.9	840.5
17.5°	2913.0	2737.8	2147.8	1446.9	943.2	817.2	813.1	825.4	833.6	829.5	828.2
20°	2991.0	2754.2	1986.2	1162.2	810.4	789.8	799.4	810.4	817.2	810.4	809.0
22.5°	3100.5	2782.9	1809.7	933.6	767.9	773.4	781.6	794.0	800.8	791.2	789.8
25°	3234.7	2828.1	1635.8	811.7	747.4	754.3	766.6	780.3	788.5	778.9	777.5
27.5°	3408.5	2900.7	1475.7	784.4	726.9	731.0	748.8	769.3	780.3	767.9	767.9
30°	3660.4	3019.8	1337.4	796.7	714.6	705.0	729.6	758.4	770.7	759.7	758.4
32.5°	3994.4	3188.1	1252.5	815.9	709.1	674.9	698.1	735.1	755.6	748.8	748.8
35°	4432.4	3444.1	1219.7	837.8	705.0	643.4	659.8	699.5	735.1	741.9	741.9
37.5°	4963.6	3800.0	1229.3	847.3	692.7	617.4	625.6	659.8	706.3	728.2	733.7
40°	5567.2	4214.8	1284.0	837.8	679.0	595.5	596.8	622.8	663.9	696.8	707.7
42.5°	6190.1	4699.4	1385.3	802.2	666.6	576.3	572.2	590.0	617.4	640.6	650.2
45°	6782.8	5197.6	1485.2	752.9	651.6	557.1	547.6	554.4	559.9	569.5	574.9
47.5°	7300.2	5548.1	1456.5	707.7	631.1	535.2	518.8	516.1	499.6	498.3	496.9
50°	7657.5	5624.7	1293.6	662.5	600.9	510.6	484.6	468.2	439.4	425.7	427.1
52.5°	7771.1	5322.2	1056.8	617.4	551.7	477.7	440.8	414.8	379.2	366.9	365.5
55°	7620.6	4729.5	844.6	562.6	483.2	433.9	392.9	358.6	329.9	314.8	314.8
57.5°	7252.3	3975.2	668.0	498.3	410.7	384.7	343.6	309.4	284.7	269.7	266.9
60°	6641.8	3156.6	528.4	421.6	350.4	331.3	288.8	266.9	245.0	227.2	223.1
62.5°	5715.1	2253.2	414.8	334.0	292.9	271.0	246.4	230.0	204.0	179.3	175.2
65°	4459.8	1378.5	320.3	245.0	235.4	224.5	209.4	194.4	162.9	138.3	134.2
67.5°	2813.1	653.0	228.6	184.8	186.2	180.7	173.8	161.5	138.3	116.4	113.6
70°	1238.8	316.2	150.6	141.0	138.3	138.3	143.7	139.6	117.7	97.2	93.1
72.5°	421.6	169.7	112.2	106.8	99.9	98.6	120.5	116.4	94.5	75.3	71.2
75°	220.4	113.6	82.1	76.7	60.2	72.6	95.8	90.3	67.1	49.3	45.2
77.5°	143.7	80.8	56.1	49.3	34.2	47.9	71.2	63.0	39.7	24.6	21.9
80°	90.3	53.4	32.9	23.3	16.4	26.0	38.3	27.4	15.1	5.5	4.1
82.5°	47.9	27.4	12.3	8.2	6.8	8.2	9.6	6.8	2.7	0.0	0.0
85°	19.2	9.6	4.1	2.7	1.4	0.0	2.7	1.4	0.0	0.0	0.0
87.5°	6.8	1.4	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)