

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: P966623

Luminaire Tested: **NAV-SB4C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966623  
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-SB4C-727-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

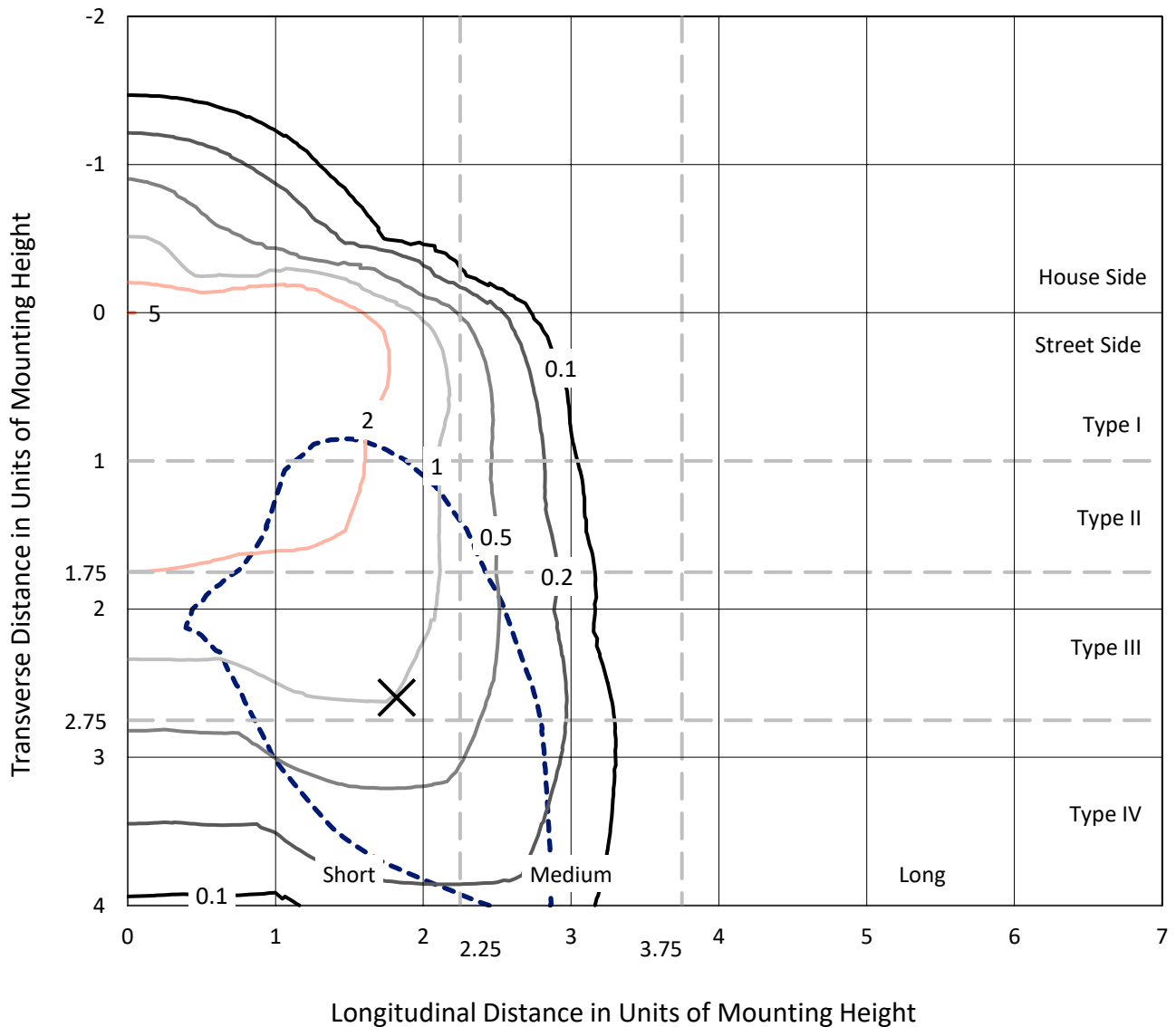
Lumens per Lamp: N/A  
Luminaire Lumens: 21606 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

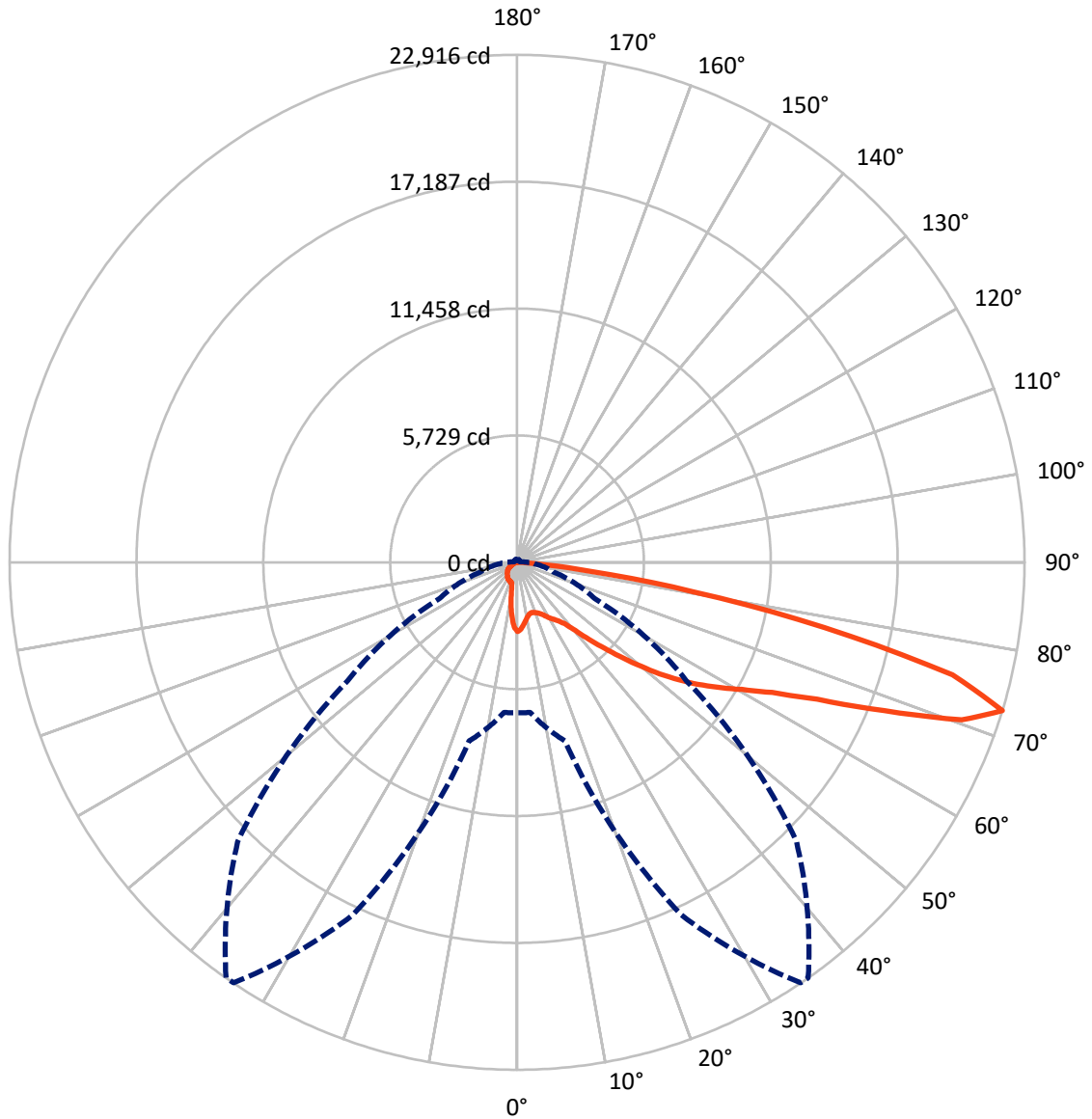
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2431.6	0.0	2431.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	19174.3	0.0	19174.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	21606.0	0.0	21606.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	257.3	1.2
10°-20°	602.0	2.8
20°-30°	977.9	4.5
30°-40°	1631.6	7.6
40°-50°	3087.0	14.3
50°-60°	4905.2	22.7
60°-70°	6068.1	28.1
70°-80°	3772.0	17.5
80°-90°	304.8	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°	21606.0	100.0
0°-180°	21606.0	100.0

**Coefficient of Utilization**



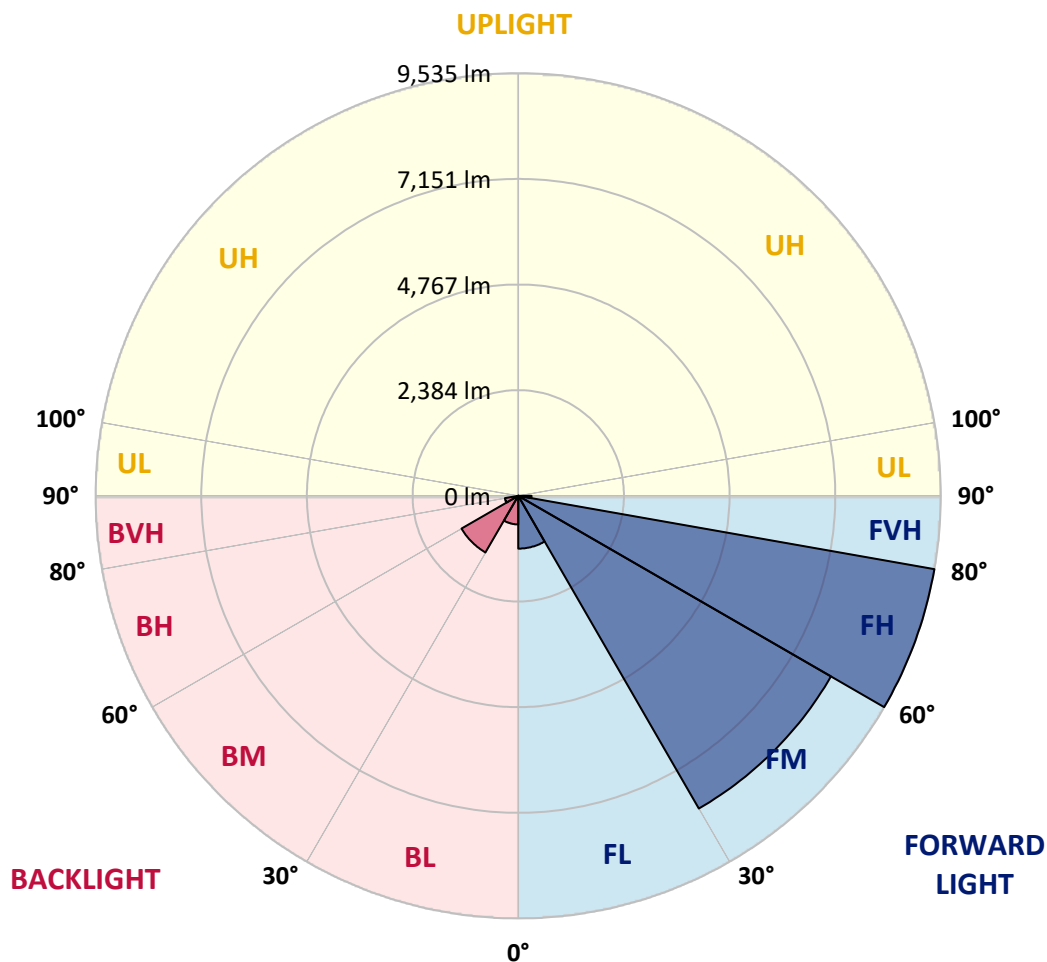
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.0	5.5			
FM	(30°-60°)	8147.6	37.7			
FH	(60°-80°)	9535.0	44.1			G4/12000
FVH	(80°-90°)	300.7	1.4			G3/500
BL	(0°-30°)	646.1	3.0	B2/1000		
BM	(30°-60°)	1476.2	6.8	B2/2500		
BH	(60°-80°)	305.1	1.4	B1/500		G1/500
BVH	(80°-90°)	4.1	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°	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5
2.5°	2992.1	3017.4	3022.2	3030.1	3030.1	3039.6	3055.4	3077.6	3114.1	3133.0	3145.7
5°	2757.8	2776.8	2800.5	2819.6	2856.0	2860.7	2922.5	2982.6	3066.5	3129.8	3174.2
7.5°	2521.9	2544.0	2575.7	2621.6	2669.2	2683.4	2776.8	2878.1	3011.1	3129.8	3204.3
10°	2355.7	2357.3	2385.8	2431.7	2507.7	2525.1	2639.1	2783.2	2949.3	3110.9	3232.7
12.5°	2262.3	2273.3	2286.1	2320.9	2393.7	2404.8	2526.6	2696.1	2887.6	3099.8	3266.0
15°	2262.3	2270.2	2278.2	2295.5	2354.1	2363.6	2471.3	2640.7	2856.0	3104.5	3319.9
17.5°	2286.1	2298.7	2292.4	2312.9	2374.7	2381.1	2476.0	2624.8	2854.4	3134.6	3402.2
20°	2343.0	2352.6	2339.9	2352.6	2414.3	2426.9	2525.1	2655.0	2881.3	3186.8	3505.1
22.5°	2433.2	2438.1	2407.9	2417.5	2480.8	2496.6	2610.6	2740.4	2946.2	3270.8	3642.7
25°	2547.2	2556.8	2510.8	2521.9	2582.1	2601.0	2732.4	2868.7	3049.1	3386.3	3818.5
27.5°	2678.6	2683.4	2643.8	2642.2	2719.8	2746.7	2879.7	3026.9	3186.8	3531.9	4040.1
30°	2829.1	2843.4	2805.3	2799.0	2897.2	2919.3	3050.7	3221.7	3389.5	3750.5	4355.2
32.5°	2947.8	2958.9	2936.7	2952.5	3052.2	3069.7	3258.1	3497.1	3707.7	4060.7	4784.2
35°	3118.8	3125.1	3074.5	3103.0	3217.0	3261.2	3541.5	3883.4	4108.2	4450.1	5344.7
37.5°	3737.8	3737.8	3522.4	3381.6	3490.8	3530.4	3929.3	4369.5	4602.1	4972.6	6050.7
40°	4594.3	4580.0	4264.9	3976.8	3962.5	4040.1	4481.8	4982.1	5240.1	5599.6	6845.5
42.5°	5507.7	5485.6	5056.5	4771.6	4724.0	4751.0	5119.9	5737.2	6000.0	6364.2	7700.3
45°	6318.3	6312.0	5919.3	5536.2	5450.7	5536.2	5916.2	6620.7	6809.1	7192.1	8553.6
47.5°	6997.5	6997.5	6710.9	6460.8	6416.4	6467.1	6994.3	7600.6	7583.2	8073.9	9384.8
50°	7779.5	7773.2	7500.8	7393.2	7439.1	7510.4	8235.5	8632.8	8384.3	8939.9	10127.3
52.5°	8327.3	8365.2	8271.9	8254.4	8488.7	8612.3	9495.6	9642.9	9101.4	9761.6	10683.0
55°	8761.1	8805.4	8913.0	9035.0	9486.1	9647.6	10716.2	10600.7	9701.4	10474.0	11002.8
57.5°	9375.3	9311.9	9478.2	9718.8	10448.6	10643.4	11898.8	11504.6	10184.3	11051.9	11037.6
60°	10121.0	10130.5	10159.0	10462.9	11409.6	11659.8	13064.0	12359.4	10494.6	11406.4	10651.3
62.5°	11017.0	11031.3	11089.8	11556.9	12699.9	12935.7	14305.2	13059.2	10637.0	11306.7	9654.0
65°	10955.3	11015.4	11669.2	13266.6	14661.4	14894.1	15753.7	13550.0	10421.8	10394.8	7860.2
67.5°	9980.0	10078.2	11172.2	15308.9	17618.6	17878.3	17504.6	13646.5	9492.4	8083.5	5127.8
70°	8700.9	8735.7	10051.3	17145.3	21042.9	21305.8	19072.0	12584.3	7203.3	4508.8	2297.1
72.5°	6794.8	6802.7	8346.3	17571.2	22901.6	22915.8	17841.9	9342.1	3873.9	1731.9	797.9
75°	4853.9	4806.4	5590.0	14249.8	20148.5	20310.0	13375.8	4382.1	1480.2	818.5	397.4
77.5°	2602.7	2655.0	3163.0	8450.7	13918.9	14194.3	7298.2	1263.3	753.6	557.3	262.8
80°	804.2	848.6	1296.6	3869.2	7884.0	8050.2	2705.6	562.0	525.6	397.4	172.6
82.5°	253.3	262.8	604.8	1625.9	3272.3	3348.4	783.6	318.2	359.4	262.8	101.3
85°	72.8	74.4	269.2	606.3	808.9	824.8	220.1	123.5	205.8	163.1	52.3
87.5°	7.9	25.3	101.3	101.3	71.2	69.7	23.8	27.0	58.5	20.6	9.5
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°	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5	3131.5
2.5°	3137.7	3139.4	3118.8	3083.9	3045.9	3014.3	2974.7	2943.1	2920.8	2914.6	2925.7
5°	3160.0	3148.8	3090.3	2984.2	2857.6	2748.3	2626.5	2529.8	2466.6	2439.6	2449.1
7.5°	3193.2	3161.5	3033.3	2824.3	2582.1	2366.8	2148.3	1978.9	1871.2	1817.4	1825.3
10°	3221.7	3158.3	2938.3	2593.1	2222.7	1896.6	1602.2	1397.9	1283.9	1230.1	1231.6
12.5°	3248.5	3156.8	2814.9	2319.3	1817.4	1418.5	1144.6	1043.2	1011.6	1000.5	997.3
15°	3299.3	3161.5	2659.7	2005.8	1413.8	1071.7	972.0	970.5	976.8	973.6	972.0
17.5°	3368.9	3166.2	2483.9	1673.4	1090.8	945.2	940.3	954.6	964.1	959.4	957.8
20°	3459.2	3185.3	2297.1	1344.1	937.3	913.5	924.6	937.3	945.2	937.3	935.6
22.5°	3585.8	3218.5	2092.9	1079.7	888.2	894.5	903.9	918.2	926.1	915.0	913.5
25°	3740.9	3270.8	1891.8	938.8	864.4	872.3	886.5	902.4	911.8	900.8	899.2
27.5°	3941.9	3354.6	1706.6	907.1	840.6	845.4	866.0	889.7	902.4	888.2	888.2
30°	4233.2	3492.4	1546.7	921.4	826.4	815.3	843.8	877.1	891.3	878.6	877.1
32.5°	4619.6	3687.1	1448.5	943.5	820.1	780.4	807.4	850.1	873.9	866.0	866.0
35°	5126.1	3983.2	1410.6	968.8	815.3	744.0	763.1	808.9	850.1	858.0	858.0
37.5°	5740.4	4394.8	1421.7	980.0	801.0	714.0	723.4	763.1	816.9	842.2	848.6
40°	6438.5	4874.5	1485.0	968.8	785.3	688.7	690.2	720.4	767.8	805.9	818.5
42.5°	7158.9	5434.9	1602.2	927.7	771.0	666.5	661.7	682.3	714.0	740.9	751.9
45°	7844.4	6011.1	1717.7	870.7	753.6	644.3	633.2	641.1	647.5	658.6	664.9
47.5°	8442.8	6416.4	1684.5	818.5	729.8	619.0	600.0	596.9	577.8	576.3	574.7
50°	8856.0	6505.1	1496.1	766.2	694.9	590.5	560.5	541.4	508.2	492.3	493.9
52.5°	8987.4	6155.2	1222.2	714.0	638.0	552.5	509.7	479.7	438.5	424.2	422.7
55°	8813.3	5469.7	976.8	650.7	558.8	501.8	454.4	414.8	381.5	364.1	364.1
57.5°	8387.4	4597.4	772.5	576.3	475.0	444.8	397.4	357.8	329.3	311.9	308.7
60°	7681.4	3650.7	611.1	487.6	405.3	383.1	334.0	308.7	283.4	262.8	258.1
62.5°	6609.6	2605.9	479.7	386.3	338.8	313.4	285.0	266.0	235.9	207.4	202.6
65°	5157.8	1594.2	370.4	283.4	272.3	259.6	242.2	224.8	188.4	159.9	155.2
67.5°	3253.4	755.1	264.3	213.7	215.4	209.0	201.1	186.9	159.9	134.6	131.4
70°	1432.7	365.7	174.1	163.1	159.9	159.9	166.3	161.4	136.1	112.4	107.6
72.5°	487.6	196.3	129.9	123.5	115.5	114.0	139.3	134.6	109.3	87.0	82.3
75°	254.9	131.4	95.0	88.7	69.7	83.9	110.8	104.4	77.6	57.0	52.3
77.5°	166.3	93.4	64.9	57.0	39.6	55.5	82.3	72.8	45.9	28.5	25.3
80°	104.4	61.7	38.0	27.0	19.0	30.0	44.3	31.7	17.4	6.4	4.7
82.5°	55.5	31.7	14.2	9.5	7.9	9.5	11.1	7.9	3.2	0.0	0.0
85°	22.1	11.1	4.7	3.2	1.5	0.0	3.2	1.5	0.0	0.0	0.0
87.5°	7.9	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)