

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: P965011

Luminaire Tested: **NAV-SB3D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965011  
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-SB3D-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA 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: 19574.4 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

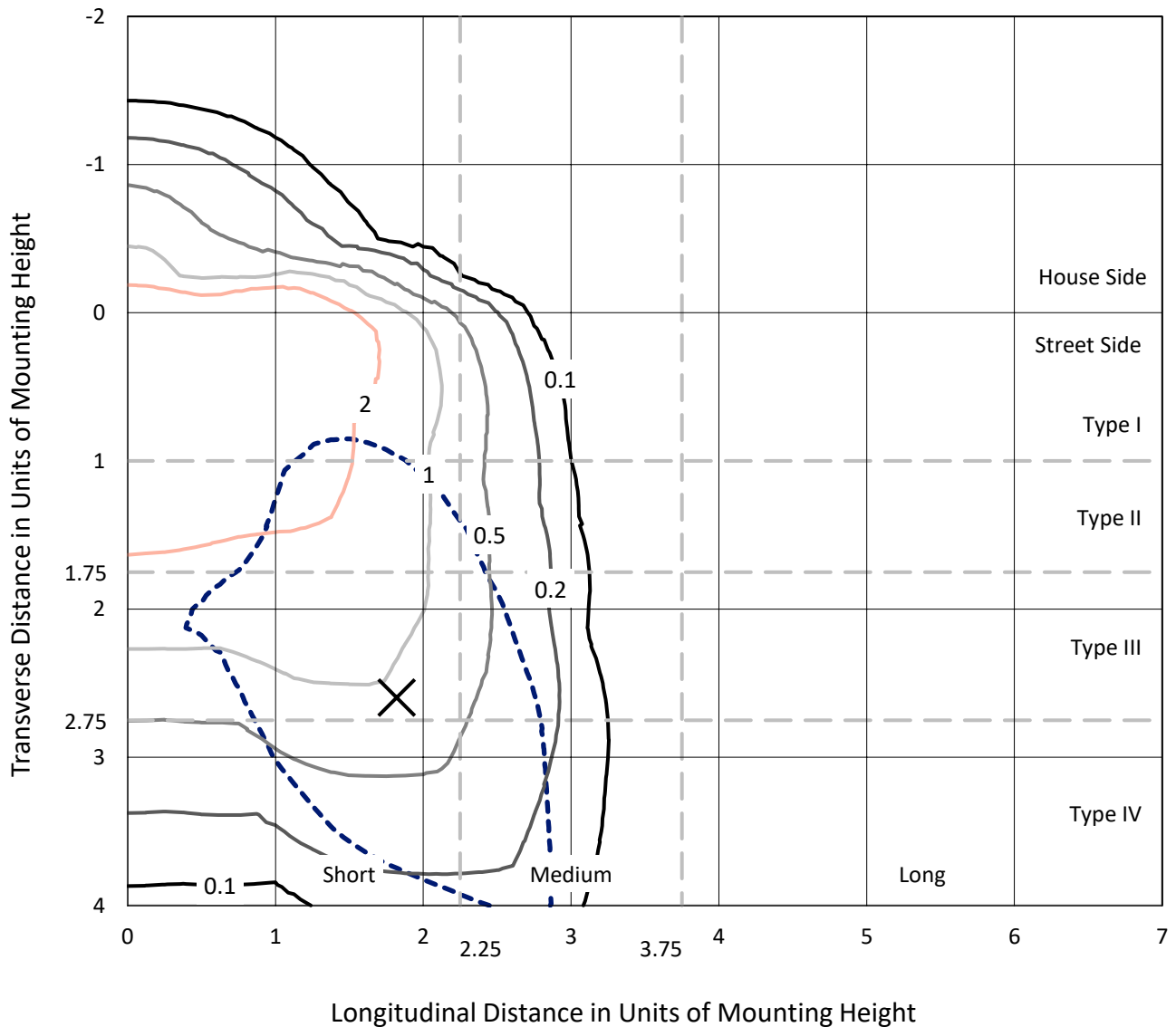
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

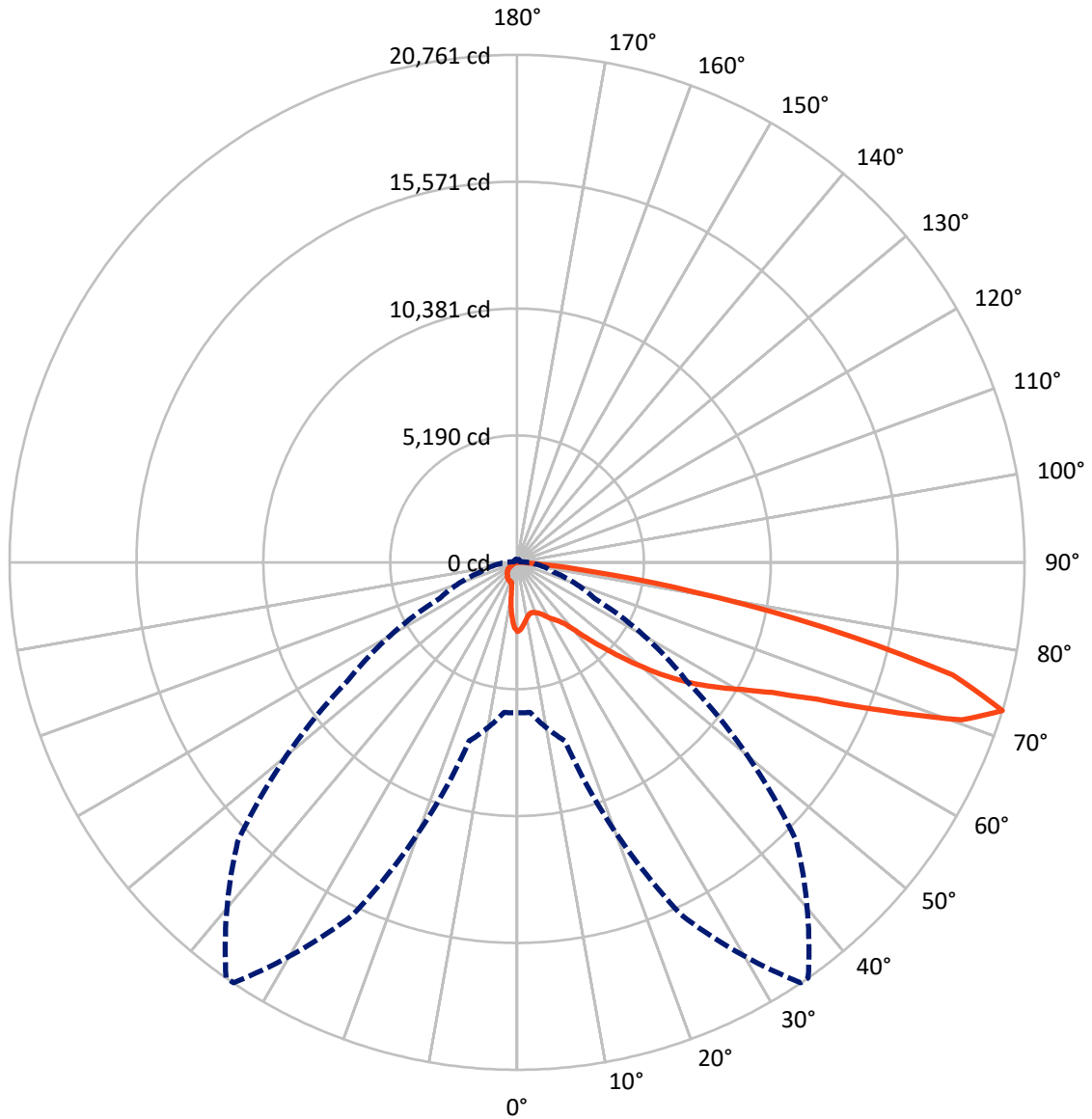
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	2203.0	0.0	2203.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	17371.4	0.0	17371.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	19574.4	0.0	19574.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.1	1.2
10°-20°	545.4	2.8
20°-30°	885.9	4.5
30°-40°	1478.2	7.6
40°-50°	2796.7	14.3
50°-60°	4444.0	22.7
60°-70°	5497.6	28.1
70°-80°	3417.3	17.5
80°-90°	276.2	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°	19574.4	100.0
0°-180°	19574.4	100.0

**Coefficient of Utilization**



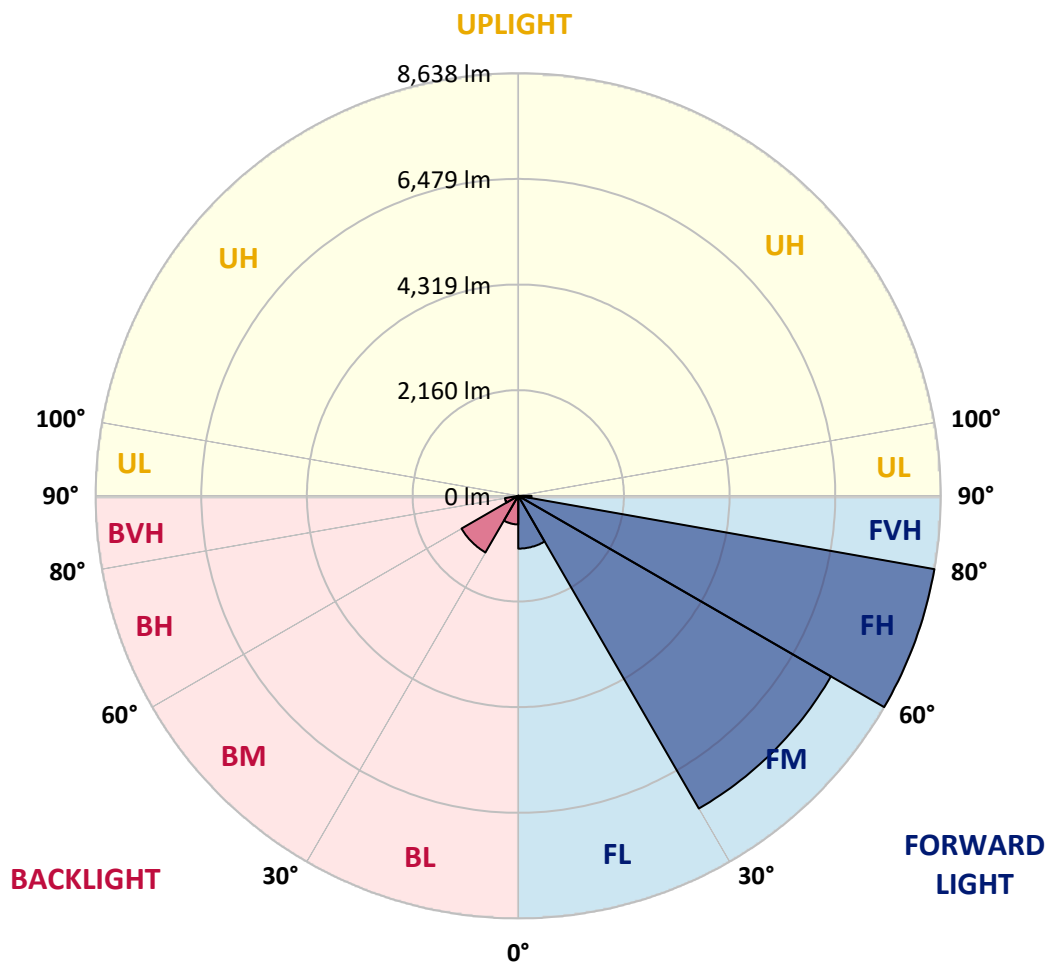
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.0	5.5			
FM (30°-60°)	7381.5	37.7			
FH (60°-80°)	8638.4	44.1			G4/12000
FVH (80°-90°)	272.4	1.4			G3/500
BL (0°-30°)	585.4	3.0	B2/1000		
BM (30°-60°)	1337.4	6.8	B2/2500		
BH (60°-80°)	276.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.8	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°	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0
2.5°	2710.8	2733.7	2738.0	2745.2	2745.2	2753.8	2768.1	2788.2	2821.2	2838.4	2849.9
5°	2498.5	2515.8	2537.2	2554.4	2587.4	2591.7	2647.7	2702.2	2778.2	2835.6	2875.7
7.5°	2284.8	2304.9	2333.5	2375.1	2418.2	2431.1	2515.8	2607.5	2727.9	2835.6	2903.0
10°	2134.2	2135.6	2161.4	2203.0	2271.9	2287.7	2390.9	2521.5	2672.1	2818.3	2928.8
12.5°	2049.6	2059.6	2071.1	2102.7	2168.6	2178.6	2289.1	2442.6	2616.1	2808.3	2958.9
15°	2049.6	2056.8	2063.9	2079.7	2132.7	2141.3	2238.9	2392.4	2587.4	2812.6	3007.7
17.5°	2071.1	2082.6	2076.9	2095.5	2151.4	2157.1	2243.2	2378.0	2586.0	2839.9	3082.3
20°	2122.7	2131.3	2119.9	2131.3	2187.2	2198.7	2287.7	2405.3	2610.4	2887.2	3175.4
22.5°	2204.5	2208.8	2181.5	2190.1	2247.5	2261.9	2365.1	2482.8	2669.2	2963.2	3300.3
25°	2307.8	2316.4	2274.8	2284.8	2339.3	2356.5	2475.6	2598.9	2762.4	3067.9	3459.5
27.5°	2426.8	2431.1	2395.2	2393.8	2464.1	2488.5	2608.9	2742.3	2887.2	3199.8	3660.3
30°	2563.0	2575.9	2541.5	2535.7	2624.7	2644.8	2763.8	2918.8	3070.8	3397.8	3945.6
32.5°	2670.6	2680.7	2660.6	2674.9	2765.2	2781.0	2951.7	3168.3	3359.0	3678.9	4334.4
35°	2825.5	2831.3	2785.3	2811.2	2914.5	2954.6	3208.5	3518.3	3722.0	4031.7	4842.1
37.5°	3386.3	3386.3	3191.2	3063.6	3162.5	3198.4	3559.8	3958.6	4169.4	4505.1	5481.8
40°	4162.2	4149.3	3863.9	3602.9	3590.0	3660.3	4060.4	4513.7	4747.4	5073.0	6201.8
42.5°	4989.8	4969.7	4581.0	4322.9	4279.9	4304.3	4638.4	5197.8	5435.9	5765.7	6976.3
45°	5724.2	5718.5	5362.7	5015.6	4938.2	5015.6	5359.8	5998.1	6168.8	6515.9	7749.4
47.5°	6339.5	6339.5	6079.9	5853.3	5813.1	5859.0	6336.7	6886.0	6870.2	7314.8	8502.4
50°	7048.0	7042.3	6795.5	6698.1	6739.7	6804.2	7461.1	7821.1	7595.9	8099.3	9175.1
52.5°	7544.3	7578.6	7494.1	7478.3	7690.6	7802.4	8602.7	8736.2	8245.6	8843.7	9678.5
55°	7937.3	7977.5	8074.9	8185.3	8594.1	8740.5	9708.6	9603.8	8789.2	9489.1	9968.2
57.5°	8493.8	8436.4	8586.9	8805.0	9466.2	9642.6	10780.0	10422.8	9226.6	10012.6	9999.7
60°	9169.3	9178.0	9203.7	9479.1	10336.8	10563.4	11835.6	11197.4	9507.8	10333.9	9649.8
62.5°	9981.1	9994.1	10047.0	10470.2	11505.7	11719.4	12960.1	11831.3	9636.8	10243.5	8746.2
65°	9925.2	9979.7	10572.1	12019.3	13282.8	13493.6	14272.4	12275.9	9441.8	9417.4	7121.2
67.5°	9041.6	9130.6	10121.7	13869.4	15962.0	16197.3	15858.7	12363.4	8599.9	7323.4	4645.6
70°	7882.8	7914.3	9106.2	15533.2	19064.4	19302.4	17278.6	11401.1	6526.0	4084.8	2081.2
72.5°	6155.9	6163.0	7561.5	15919.0	20748.2	20761.1	16164.2	8463.6	3509.7	1569.1	722.8
75°	4397.5	4354.4	5064.4	12909.9	18254.0	18400.3	12118.2	3970.0	1341.0	741.5	360.0
77.5°	2357.9	2405.3	2865.7	7656.1	12610.2	12859.6	6612.0	1144.5	682.8	504.9	238.1
80°	728.6	768.7	1174.6	3505.4	7142.7	7293.3	2451.2	509.1	476.2	360.0	156.3
82.5°	229.5	238.1	547.9	1473.0	2964.6	3033.5	709.9	288.3	325.5	238.1	91.8
85°	66.0	67.4	243.8	549.3	732.9	747.2	199.4	111.8	186.4	147.7	47.4
87.5°	7.2	23.0	91.8	91.8	64.6	63.1	21.5	24.4	53.1	18.7	8.6
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°	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0	2837.0
2.5°	2842.7	2844.2	2825.5	2793.9	2759.5	2730.8	2695.0	2666.3	2646.2	2640.5	2650.5
5°	2862.8	2852.8	2799.7	2703.6	2588.8	2489.9	2379.4	2292.0	2234.6	2210.2	2218.8
7.5°	2893.0	2864.3	2748.0	2558.7	2339.3	2144.2	1946.3	1792.8	1695.4	1646.6	1653.7
10°	2918.8	2861.4	2662.0	2349.3	2013.7	1718.2	1451.5	1266.5	1163.2	1114.4	1115.8
12.5°	2943.1	2860.0	2550.1	2101.2	1646.6	1285.1	1037.0	945.2	916.5	906.5	903.6
15°	2989.0	2864.3	2409.6	1817.2	1280.8	971.0	880.7	879.2	885.0	882.1	880.7
17.5°	3052.1	2868.6	2250.4	1516.0	988.2	856.3	852.0	864.9	873.5	869.2	867.8
20°	3133.8	2885.8	2081.2	1217.7	849.1	827.6	837.6	849.1	856.3	849.1	847.7
22.5°	3248.6	2915.9	1896.1	978.2	804.6	810.4	819.0	831.9	839.1	829.0	827.6
25°	3389.2	2963.2	1714.0	850.5	783.1	790.3	803.2	817.5	826.2	816.1	814.7
27.5°	3571.3	3039.2	1546.1	821.8	761.6	765.9	784.5	806.1	817.5	804.6	804.6
30°	3835.2	3164.0	1401.3	834.8	748.7	738.6	764.4	794.6	807.5	796.0	794.6
32.5°	4185.2	3340.4	1312.4	854.8	742.9	707.0	731.4	770.2	791.7	784.5	784.5
35°	4644.2	3608.6	1278.0	877.8	738.6	674.1	691.4	732.9	770.2	777.4	777.4
37.5°	5200.6	3981.5	1288.0	887.9	725.7	646.9	655.5	691.4	740.0	763.0	768.7
40°	5833.2	4416.1	1345.3	877.8	711.3	623.9	625.4	652.6	695.7	730.0	741.5
42.5°	6485.8	4923.9	1451.5	840.5	698.5	603.8	599.5	618.2	646.9	671.3	681.3
45°	7106.8	5445.9	1556.2	788.8	682.8	583.7	573.7	580.9	586.6	596.7	602.4
47.5°	7649.0	5813.1	1526.0	741.5	661.2	560.8	543.6	540.7	523.5	522.0	520.6
50°	8023.3	5893.4	1355.4	694.2	629.7	534.9	507.7	490.6	460.4	446.1	447.5
52.5°	8142.4	5576.4	1107.3	646.9	578.0	500.6	461.9	434.6	397.3	384.4	382.9
55°	7984.5	4955.4	885.0	589.5	506.2	454.7	411.6	375.8	345.6	329.8	329.8
57.5°	7598.7	4165.1	700.0	522.0	430.3	403.0	360.0	324.1	298.4	282.6	279.7
60°	6959.1	3307.5	553.6	441.8	367.2	347.1	302.7	279.7	256.8	238.1	233.8
62.5°	5988.0	2360.8	434.6	349.9	306.9	284.0	258.2	241.0	213.7	187.9	183.6
65°	4672.9	1444.3	335.6	256.8	246.7	235.2	219.5	203.7	170.7	144.8	140.5
67.5°	2947.4	684.2	239.5	193.6	195.1	189.3	182.1	169.2	144.8	121.9	119.0
70°	1298.1	331.3	157.7	147.7	144.8	144.8	150.6	146.3	123.3	101.8	97.6
72.5°	441.8	177.8	117.6	111.8	104.7	103.2	126.2	121.9	99.0	78.9	74.6
75°	230.9	119.0	86.1	80.4	63.1	76.1	100.4	94.7	70.3	51.7	47.4
77.5°	150.6	84.7	58.8	51.7	35.9	50.2	74.6	66.0	41.6	25.8	23.0
80°	94.7	56.0	34.4	24.4	17.2	27.3	40.2	28.7	15.8	5.7	4.3
82.5°	50.2	28.7	12.9	8.6	7.2	8.6	10.0	7.2	2.9	0.0	0.0
85°	20.1	10.0	4.3	2.9	1.4	0.0	2.9	1.4	0.0	0.0	0.0
87.5°	7.2	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)