

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: P968235

Luminaire Tested: **NAV-SB5B-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968235
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-SB5B-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA 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: 22075.4 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

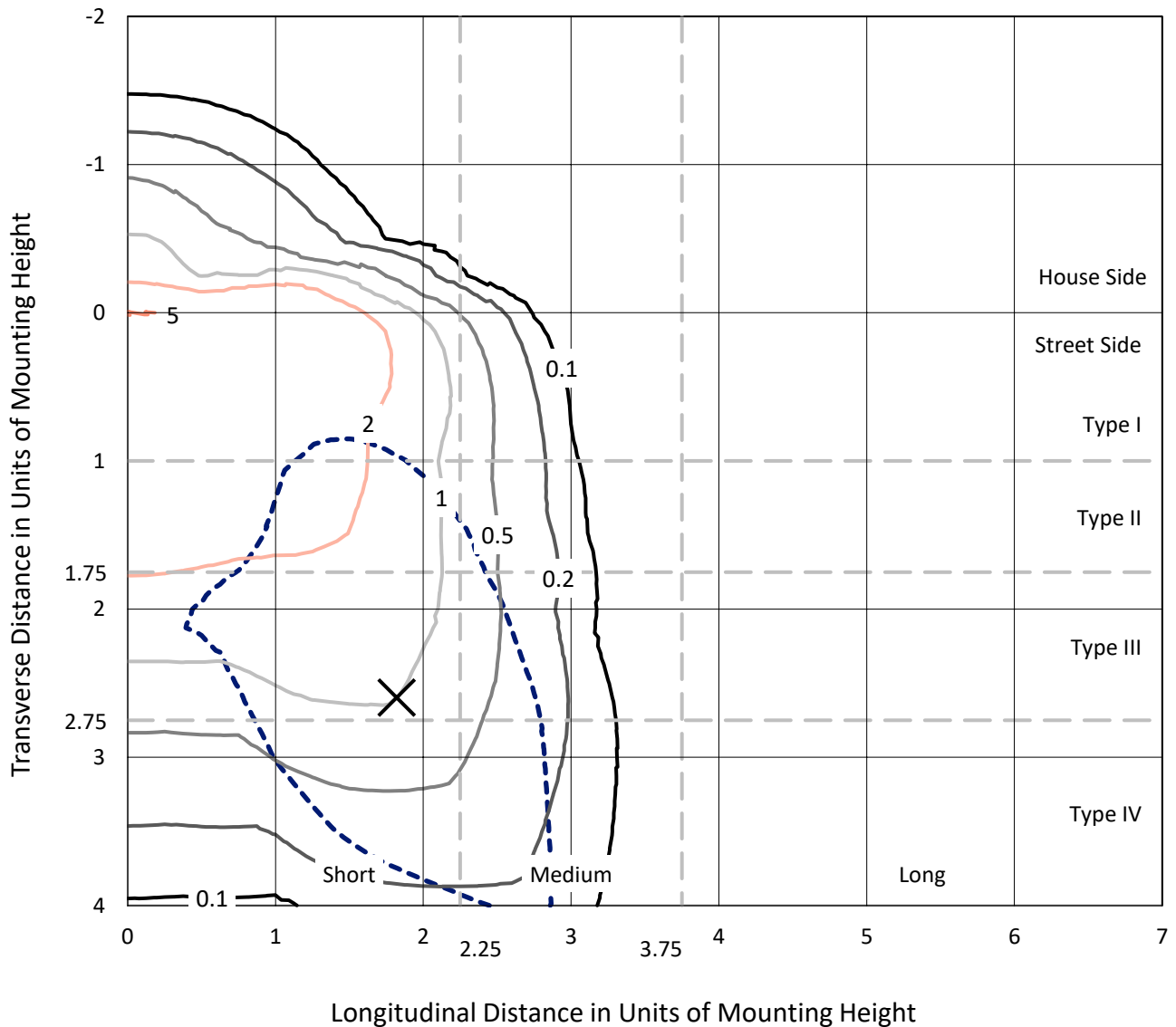
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

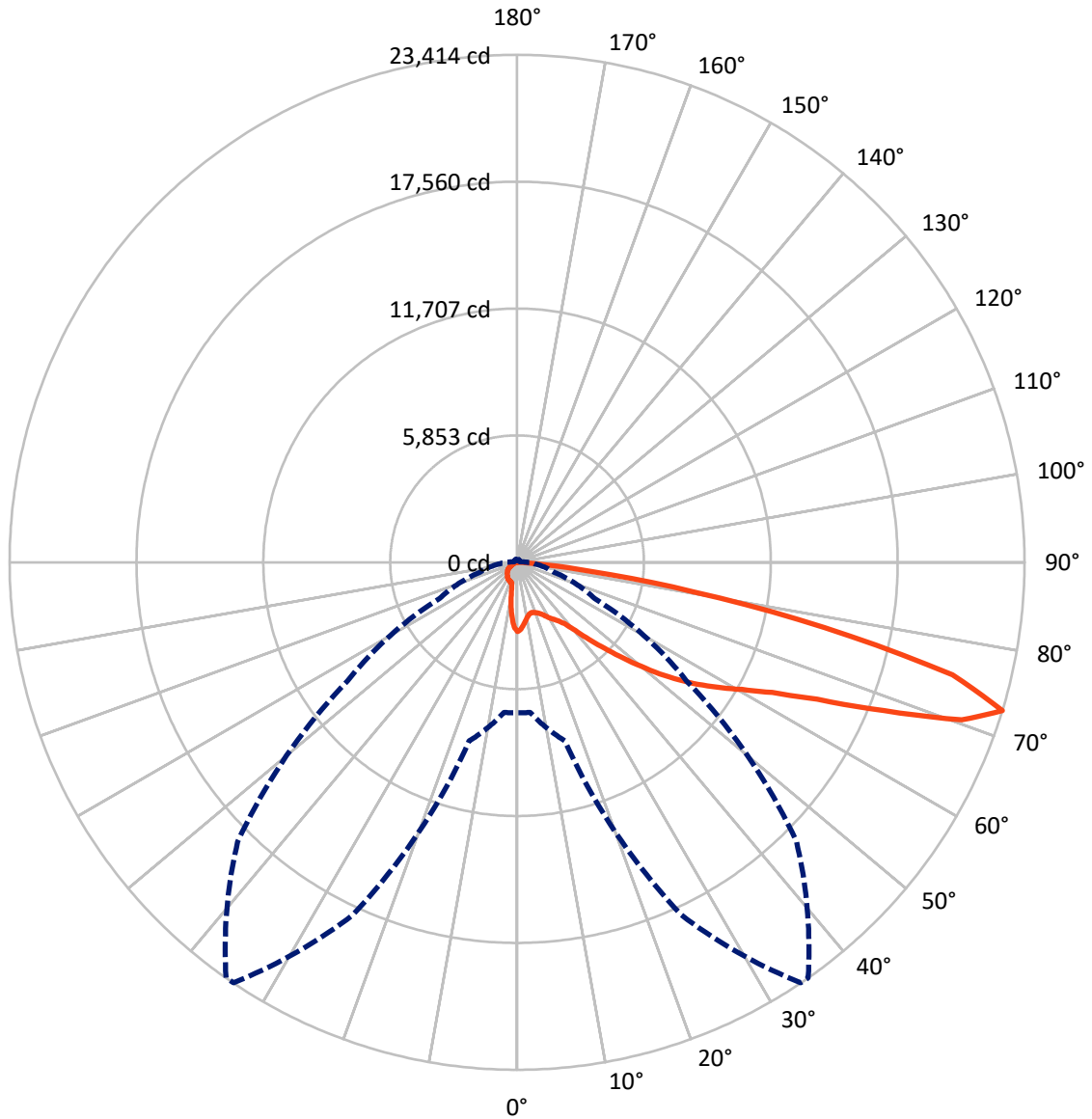
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	2484.5	0.0	2484.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19590.9	0.0	19590.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	22075.4	0.0	22075.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.9	1.2
10°-20°	615.1	2.8
20°-30°	999.1	4.5
30°-40°	1667.0	7.6
40°-50°	3154.1	14.3
50°-60°	5011.8	22.7
60°-70°	6200.0	28.1
70°-80°	3853.9	17.5
80°-90°	311.5	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°	22075.4	100.0
0°-180°	22075.4	100.0

Coefficient of Utilization

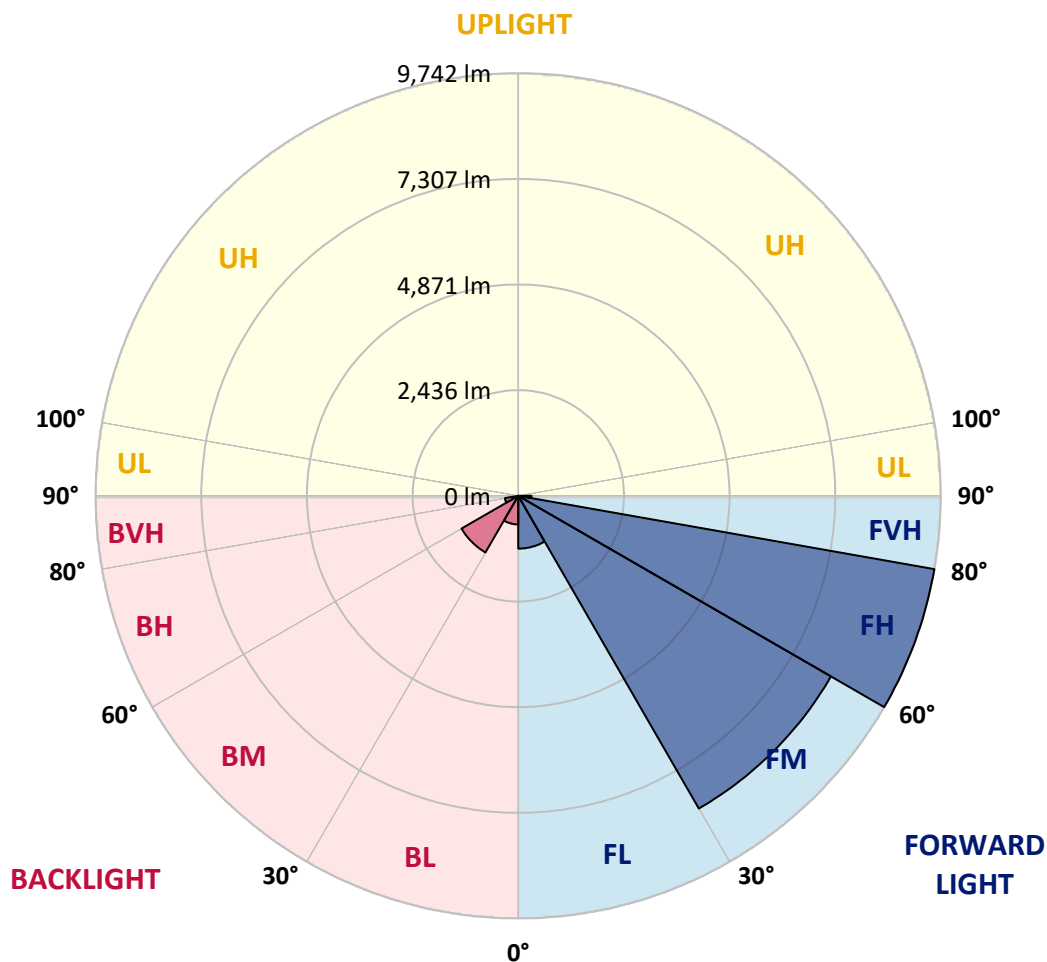


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.9	5.5			
FM (30°-60°)	8324.6	37.7			
FH (60°-80°)	9742.2	44.1			G4/12000
FVH (80°-90°)	307.2	1.4			G3/500
BL (0°-30°)	660.2	3.0	B2/1000		
BM (30°-60°)	1508.3	6.8	B2/2500		
BH (60°-80°)	311.8	1.4	B1/500		G1/500
BVH (80°-90°)	4.2	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°	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4
2.5°	3057.2	3083.0	3087.8	3095.9	3095.9	3105.6	3121.8	3144.5	3181.7	3201.1	3214.0
5°	2817.7	2837.1	2861.4	2880.9	2918.0	2922.9	2985.9	3047.4	3133.1	3197.9	3243.1
7.5°	2576.7	2599.4	2631.7	2678.6	2727.1	2741.7	2837.1	2940.6	3076.5	3197.9	3273.8
10°	2406.9	2408.5	2437.7	2484.5	2562.2	2579.9	2696.5	2843.7	3013.5	3178.4	3303.0
12.5°	2311.5	2322.8	2335.7	2371.3	2445.8	2457.0	2581.6	2754.7	2950.4	3167.1	3337.0
15°	2311.5	2319.6	2327.7	2345.4	2405.3	2415.0	2525.0	2698.0	2918.0	3172.0	3391.9
17.5°	2335.7	2348.7	2342.2	2363.2	2426.3	2432.7	2529.8	2681.8	2916.4	3202.7	3476.1
20°	2394.0	2403.6	2390.7	2403.6	2466.8	2479.7	2579.9	2712.6	2943.9	3256.1	3581.2
22.5°	2486.1	2491.0	2460.3	2469.9	2534.6	2550.8	2667.3	2799.9	3010.2	3341.8	3722.0
25°	2602.6	2612.3	2565.4	2576.7	2638.1	2657.6	2791.9	2931.0	3115.4	3459.9	3901.5
27.5°	2736.9	2741.7	2701.3	2699.6	2778.9	2806.4	2942.3	3092.7	3256.1	3608.7	4127.9
30°	2890.5	2905.1	2866.2	2859.7	2960.1	2982.7	3117.0	3291.7	3463.2	3832.0	4449.8
32.5°	3011.9	3023.1	3000.5	3016.7	3118.6	3136.4	3328.9	3573.2	3788.3	4149.0	4888.1
35°	3186.5	3193.0	3141.2	3170.3	3286.8	3332.1	3618.5	3967.8	4197.5	4546.9	5460.8
37.5°	3818.9	3818.9	3599.0	3455.1	3566.7	3607.1	4014.7	4464.4	4702.2	5080.6	6182.2
40°	4694.1	4679.5	4357.6	4063.2	4048.6	4127.9	4579.2	5090.4	5354.0	5721.2	6994.2
42.5°	5627.4	5604.7	5166.4	4875.2	4826.7	4854.2	5231.1	5861.9	6130.4	6502.5	7867.7
45°	6455.6	6449.1	6047.9	5656.5	5569.1	5656.5	6044.7	6764.5	6957.0	7348.4	8739.5
47.5°	7149.5	7149.5	6856.7	6601.1	6555.8	6607.6	7146.2	7765.7	7748.0	8249.4	9588.7
50°	7948.6	7942.1	7663.8	7553.8	7600.8	7673.6	8414.3	8820.3	8566.4	9134.2	10347.3
52.5°	8508.2	8547.1	8451.5	8433.8	8673.1	8799.3	9701.9	9852.4	9299.2	9973.7	10915.1
55°	8951.4	8996.7	9106.7	9231.3	9692.2	9857.2	10949.0	10831.0	9912.2	10701.5	11241.8
57.5°	9579.0	9514.3	9684.1	9930.0	10675.7	10874.6	12157.3	11754.6	10405.6	11291.9	11277.4
60°	10340.8	10350.6	10379.7	10690.2	11657.5	11913.1	13347.9	12628.0	10722.6	11654.2	10882.7
62.5°	11256.3	11270.9	11330.8	11808.0	12975.8	13216.9	14616.0	13342.9	10868.2	11552.4	9863.7
65°	11193.3	11254.7	11922.8	13554.9	14980.0	15217.7	16096.0	13844.4	10648.2	10620.6	8031.0
67.5°	10196.9	10297.2	11414.9	15641.5	18001.5	18266.7	17885.0	13943.1	9698.7	8259.1	5239.2
70°	8889.9	8925.5	10269.7	17517.9	21500.2	21768.6	19486.4	12857.7	7359.7	4606.8	2347.0
72.5°	6942.4	6950.5	8527.6	17953.0	23399.1	23413.7	18229.5	9545.0	3958.1	1769.6	815.3
75°	4959.4	4910.8	5711.5	14559.4	20586.3	20751.2	13666.5	4477.3	1512.4	836.3	406.0
77.5°	2659.3	2712.6	3231.8	8634.4	14221.3	14502.7	7456.8	1290.8	770.0	569.4	268.5
80°	821.7	866.9	1324.7	3953.2	8055.3	8225.1	2764.3	574.2	537.0	406.0	176.3
82.5°	258.8	268.5	617.9	1661.2	3343.4	3421.0	800.6	325.1	367.2	268.5	103.5
85°	74.4	76.1	275.0	619.5	826.6	842.8	224.9	126.2	210.2	166.6	53.4
87.5°	8.1	25.8	103.5	103.5	72.8	71.1	24.3	27.5	59.9	21.0	9.7
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°	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4	3199.4
2.5°	3205.9	3207.5	3186.5	3151.0	3112.1	3079.8	3039.3	3006.9	2984.3	2977.8	2989.2
5°	3228.5	3217.3	3157.4	3049.1	2919.6	2808.0	2683.4	2584.8	2520.1	2492.6	2502.3
7.5°	3262.6	3230.2	3099.2	2885.7	2638.1	2418.2	2194.9	2021.9	1911.9	1856.9	1865.0
10°	3291.7	3227.0	3002.1	2649.5	2271.0	1937.8	1636.9	1428.2	1311.8	1256.9	1258.4
12.5°	3319.2	3225.4	2875.9	2369.7	1856.9	1449.4	1169.4	1066.0	1033.6	1022.2	1019.1
15°	3370.9	3230.2	2717.5	2049.4	1444.4	1095.1	993.1	991.6	998.0	994.8	993.1
17.5°	3442.1	3235.1	2537.9	1709.7	1114.5	965.7	960.8	975.4	985.0	980.2	978.6
20°	3534.3	3254.5	2347.0	1373.3	957.6	933.3	944.6	957.6	965.7	957.6	955.9
22.5°	3663.7	3288.4	2138.4	1103.1	907.4	913.9	923.6	938.2	946.3	934.9	933.3
25°	3822.2	3341.8	1932.9	959.2	883.1	891.2	905.8	922.0	931.7	920.3	918.7
27.5°	4027.6	3427.5	1743.7	926.8	859.0	863.8	884.8	909.1	922.0	907.4	907.4
30°	4325.3	3568.2	1580.3	941.4	844.4	833.0	862.1	896.2	910.7	897.7	896.2
32.5°	4719.9	3767.2	1480.0	964.0	837.8	797.4	824.9	868.6	892.9	884.8	884.8
35°	5237.5	4069.7	1441.3	989.9	833.0	760.2	779.6	826.6	868.6	876.7	876.7
37.5°	5865.2	4490.2	1452.5	1001.2	818.5	729.5	739.2	779.6	834.7	860.5	866.9
40°	6578.4	4980.4	1517.2	989.9	802.3	703.7	705.2	735.9	784.5	823.3	836.3
42.5°	7314.5	5552.9	1636.9	947.9	787.7	681.0	676.1	697.2	729.5	757.0	768.3
45°	8014.9	6141.8	1755.0	889.6	770.0	658.4	647.0	655.1	661.5	672.9	679.4
47.5°	8626.3	6555.8	1721.1	836.3	745.7	632.4	613.1	609.8	590.4	588.8	587.1
50°	9048.5	6646.4	1528.6	782.9	710.1	603.3	572.6	553.2	519.3	503.1	504.7
52.5°	9182.7	6289.0	1248.8	729.5	651.9	564.5	520.8	490.2	448.0	433.5	431.8
55°	9004.7	5588.6	998.0	664.8	571.0	512.7	464.2	423.8	389.8	372.1	372.1
57.5°	8569.6	4697.3	789.4	588.8	485.2	454.5	406.0	365.5	336.4	318.7	315.4
60°	7848.2	3730.0	624.3	498.2	414.1	391.4	341.3	315.4	289.6	268.5	263.6
62.5°	6753.2	2662.4	490.2	394.7	346.1	320.3	291.2	271.7	241.0	211.9	207.0
65°	5269.9	1628.8	378.5	289.6	278.2	265.3	247.4	229.7	192.5	163.4	158.6
67.5°	3324.0	771.5	270.1	218.3	220.0	213.5	205.4	190.9	163.4	137.5	134.3
70°	1463.9	373.6	177.9	166.6	163.4	163.4	169.8	165.0	139.1	114.8	110.0
72.5°	498.2	200.6	132.6	126.2	118.1	116.4	142.4	137.5	111.6	89.0	84.2
75°	260.5	134.3	97.1	90.6	71.1	85.7	113.3	106.8	79.2	58.2	53.4
77.5°	169.8	95.4	66.3	58.2	40.5	56.6	84.2	74.4	46.9	29.1	25.8
80°	106.8	63.0	38.8	27.5	19.4	30.7	45.3	32.4	17.8	6.5	4.8
82.5°	56.6	32.4	14.6	9.7	8.1	9.7	11.3	8.1	3.3	0.0	0.0
85°	22.7	11.3	4.8	3.3	1.6	0.0	3.3	1.6	0.0	0.0	0.0
87.5°	8.1	1.6	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)