

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: P963057

Luminaire Tested: **NAV-SB2D-750-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2D-750-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22083.6 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

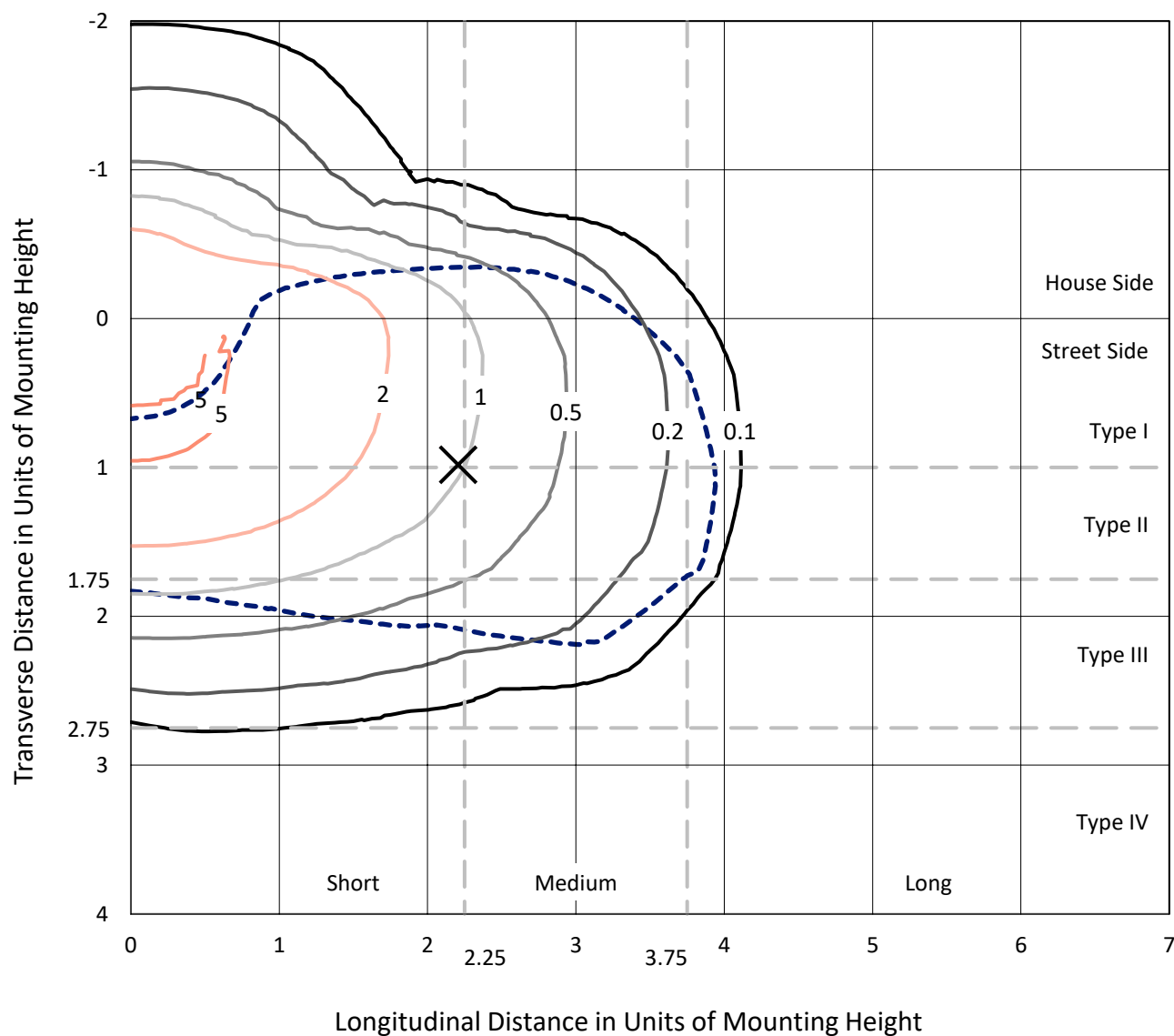
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

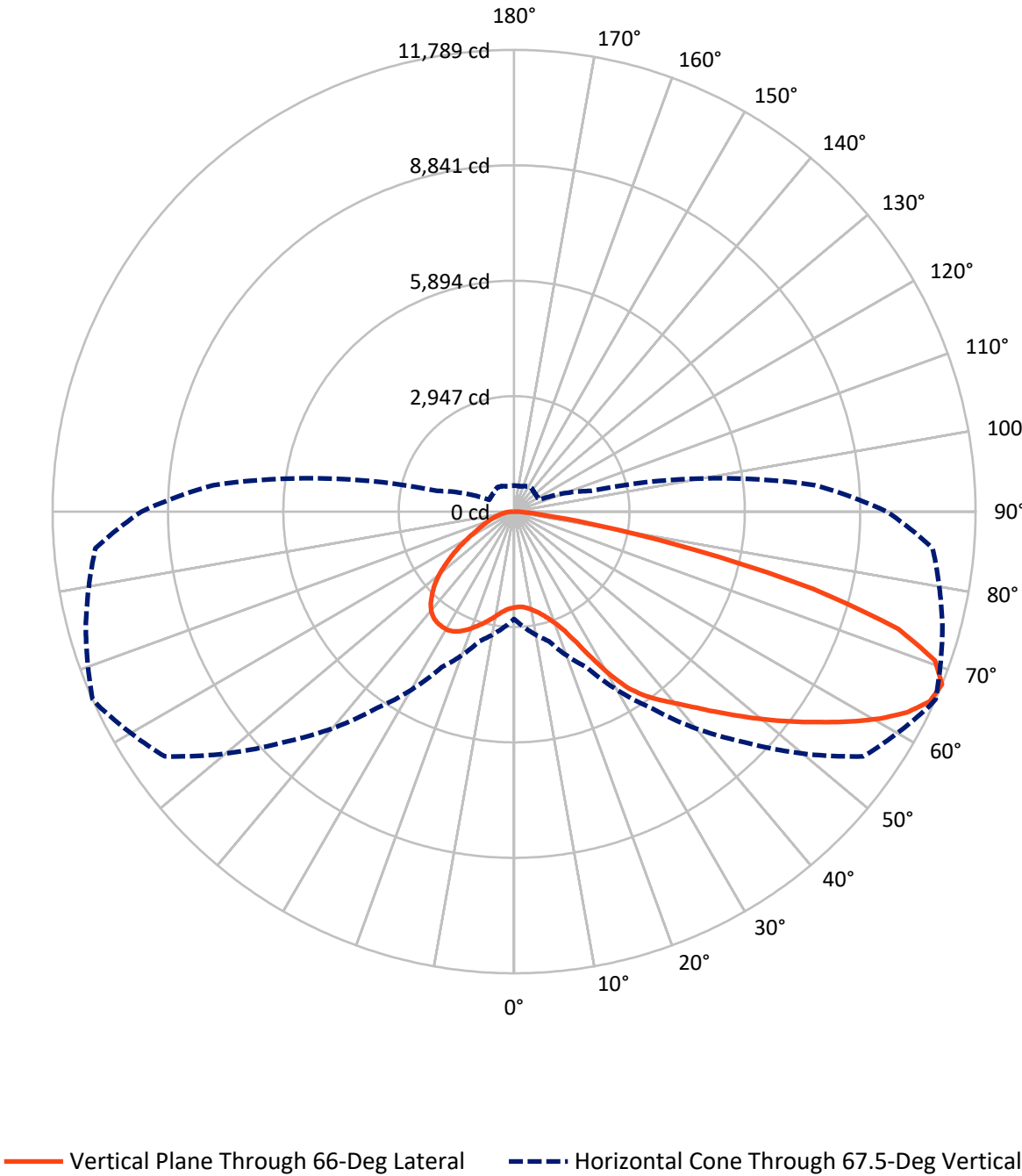
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5491.0	0.0	5491.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16592.6	0.0	16592.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	22083.6	0.0	22083.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	1.1
10°-20°	802.3	3.6
20°-30°	1546.4	7.0
30°-40°	2711.5	12.3
40°-50°	4031.1	18.3
50°-60°	5109.8	23.1
60°-70°	4999.8	22.6
70°-80°	2385.0	10.8
80°-90°	254.9	1.2
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°	22083.6	100.0
0°-180°	22083.6	100.0

Coefficient of Utilization



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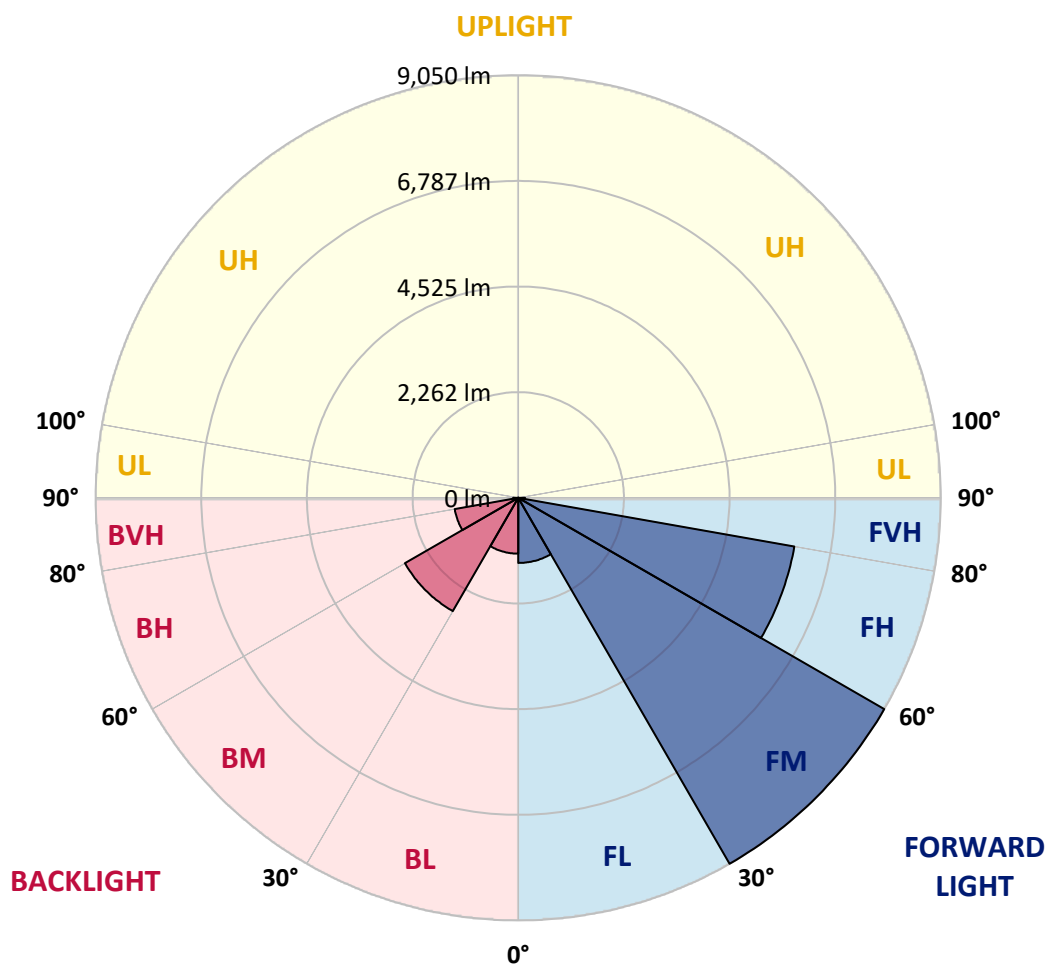
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1395.5	6.3			
FM	(30°-60°)	9049.7	41.0			
FH	(60°-80°)	6002.9	27.2			G3/7500
FVH	(80°-90°)	144.5	0.7			G2/225
BL	(0°-30°)	1196.1	5.4	B3/2500		
BM	(30°-60°)	2802.7	12.7	B3/5000		
BH	(60°-80°)	1381.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	110.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3
2.5°	2423.8	2437.8	2434.3	2428.4	2427.3	2429.7	2433.1	2436.6	2435.4	2441.2	2450.6
5°	2416.8	2430.8	2429.7	2429.7	2434.3	2443.6	2449.3	2455.2	2449.3	2456.3	2469.1
7.5°	2421.6	2431.9	2436.6	2441.2	2452.8	2470.2	2484.2	2496.9	2489.9	2498.1	2514.3
10°	2480.7	2488.8	2493.4	2493.4	2501.6	2521.3	2535.2	2558.4	2552.7	2565.4	2586.3
12.5°	2588.6	2596.7	2596.7	2592.1	2597.9	2610.7	2615.3	2640.8	2630.4	2651.3	2672.2
15°	2720.9	2737.2	2724.3	2716.2	2718.5	2731.3	2730.2	2749.9	2739.4	2756.8	2775.4
17.5°	2867.0	2887.9	2867.0	2865.9	2861.3	2875.2	2876.4	2893.8	2875.2	2887.9	2900.7
20°	3039.9	3069.0	3051.5	3057.4	3046.9	3052.8	3058.5	3084.0	3055.0	3064.3	3060.9
22.5°	3283.6	3318.4	3299.9	3321.9	3315.0	3310.3	3309.1	3354.4	3309.1	3312.6	3279.0
25°	3638.6	3680.5	3648.0	3678.1	3678.1	3693.2	3710.6	3768.6	3693.2	3671.1	3584.1
27.5°	4163.1	4204.9	4141.1	4159.7	4153.8	4190.9	4172.4	4316.3	4235.1	4199.1	4023.8
30°	4794.3	4868.5	4747.9	4743.3	4737.4	4796.6	4823.3	4918.5	4836.1	4800.1	4588.9
32.5°	5476.6	5554.3	5410.5	5368.6	5346.6	5382.6	5360.5	5437.1	5380.2	5324.6	5063.5
35°	6198.3	6274.8	6137.9	6056.7	5968.5	5893.1	5814.2	5833.9	5780.6	5695.8	5425.5
37.5°	6880.5	7020.9	6875.9	6788.9	6626.4	6479.0	6258.5	6166.9	6117.0	6039.3	5766.6
40°	7575.5	7655.6	7545.3	7471.1	7294.7	7063.8	6711.1	6517.4	6450.0	6374.6	6143.7
42.5°	8087.2	8163.8	8104.6	8053.5	7915.5	7647.4	7191.5	6949.0	6851.5	6766.8	6570.7
45°	8493.3	8550.1	8513.0	8531.6	8472.4	8212.5	7689.2	7411.9	7311.0	7207.7	7053.4
47.5°	8656.9	8717.2	8776.5	8886.6	8987.6	8796.1	8224.1	7913.2	7806.4	7700.8	7548.8
50°	8638.3	8699.8	8871.6	9105.9	9419.2	9355.4	8788.0	8446.9	8348.2	8227.6	8087.2
52.5°	8489.9	8559.5	8779.8	9169.8	9668.7	9774.3	9362.3	8998.1	8905.2	8761.3	8621.0
55°	8100.0	8141.8	8472.4	9024.7	9727.9	10066.6	9925.1	9585.1	9492.3	9291.6	9138.4
57.5°	7377.1	7437.4	7918.9	8633.7	9579.3	10265.1	10419.3	10202.4	10113.1	9824.1	9664.0
60°	6433.8	6530.1	7081.2	7977.0	9201.1	10263.9	10868.4	10809.2	10734.9	10348.6	10181.5
62.5°	5366.3	5477.7	6007.9	7048.7	8539.7	9972.6	11149.2	11317.4	11279.1	10832.4	10618.9
65°	4121.3	4197.9	4725.9	5847.8	7510.6	9347.3	11181.7	11664.4	11671.4	11200.3	10847.5
67.5°	2744.1	2964.5	3422.9	4388.2	6132.2	8325.0	10896.3	11721.2	11788.5	11326.8	10732.7
70°	1339.0	1629.0	2078.1	2852.0	4388.2	6757.5	10150.2	11254.8	11404.5	10957.8	10048.1
72.5°	555.8	649.7	894.6	1407.4	2518.9	4559.9	8651.1	9990.1	10267.4	9709.3	8448.0
75°	374.7	406.1	511.7	721.7	1147.5	2248.6	6238.9	7449.1	7895.8	7333.1	5994.0
77.5°	288.9	308.6	372.5	504.7	682.2	850.4	3339.3	4489.2	4720.0	4369.7	3118.9
80°	227.4	242.5	278.5	367.8	483.8	454.8	1138.3	2034.0	2167.5	1818.1	1002.4
82.5°	197.2	203.1	199.6	249.5	321.4	265.7	373.6	750.7	828.4	601.1	327.2
85°	142.7	159.0	165.9	154.4	170.6	134.6	153.1	265.7	292.4	261.1	184.5
87.5°	58.0	85.9	105.6	99.8	62.6	38.3	47.6	77.7	89.4	97.5	60.4
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°	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3	2449.3
2.5°	2451.7	2459.8	2465.6	2472.6	2477.2	2484.2	2498.1	2506.2	2507.4	2513.2	2512.1
5°	2473.7	2485.3	2498.1	2516.7	2537.6	2554.9	2581.7	2600.2	2607.2	2612.9	2611.8
7.5°	2521.3	2537.6	2560.8	2593.2	2623.4	2646.7	2679.1	2701.2	2723.2	2731.3	2732.4
10°	2592.1	2615.3	2648.9	2693.0	2725.5	2755.7	2789.3	2807.9	2829.9	2839.2	2843.9
12.5°	2680.3	2704.7	2748.7	2810.2	2840.4	2861.3	2872.9	2868.3	2872.9	2881.0	2883.3
15°	2781.2	2807.9	2857.8	2923.9	2944.8	2926.3	2900.7	2877.5	2874.0	2876.4	2884.5
17.5°	2900.7	2920.4	2978.4	3034.1	3019.0	2942.5	2886.8	2849.7	2831.0	2825.3	2833.4
20°	3067.8	3067.8	3115.4	3150.1	3049.3	2919.3	2832.3	2771.9	2733.7	2717.4	2713.9
22.5°	3270.9	3252.3	3282.5	3258.1	3043.4	2854.3	2733.7	2629.2	2571.2	2547.9	2544.5
25°	3528.5	3506.4	3498.2	3347.4	3001.7	2751.0	2554.9	2428.4	2377.4	2364.7	2367.0
27.5°	3917.1	3861.5	3755.8	3396.1	2925.0	2588.6	2346.1	2228.9	2199.9	2201.1	2204.6
30°	4434.7	4323.2	4064.5	3404.3	2799.8	2358.8	2132.6	2049.1	2035.1	2041.0	2060.7
32.5°	4913.8	4808.3	4380.1	3367.1	2607.2	2133.7	1941.1	1885.5	1864.6	1871.5	1880.9
35°	5289.7	5260.7	4672.5	3315.0	2370.5	1922.6	1769.5	1721.9	1681.2	1672.0	1679.0
37.5°	5644.8	5633.2	4891.8	3241.9	2136.1	1772.9	1631.4	1568.7	1509.5	1477.0	1478.3
40°	6034.7	6023.0	5035.6	3129.3	1928.4	1643.0	1507.3	1424.9	1351.8	1292.5	1298.4
42.5°	6473.3	6404.8	5104.1	2968.0	1752.0	1532.8	1406.3	1294.9	1198.5	1144.0	1147.5
45°	6952.5	6798.1	5103.0	2762.7	1603.5	1431.8	1298.4	1140.5	1051.2	1000.2	997.8
47.5°	7460.7	7174.1	5040.3	2535.2	1459.6	1320.4	1131.3	1010.6	951.4	920.1	913.2
50°	7985.1	7525.7	4933.5	2274.2	1312.3	1193.9	1026.8	944.4	899.2	870.2	859.8
52.5°	8478.2	7844.7	4804.8	1978.2	1162.7	1070.9	980.4	916.7	869.1	836.6	822.7
55°	8936.6	8119.6	4622.5	1675.5	1040.8	988.6	958.4	905.1	850.4	812.2	797.1
57.5°	9343.8	8298.4	4308.2	1391.2	953.8	931.7	935.2	885.3	822.7	790.2	769.3
60°	9682.6	8429.5	3842.8	1127.8	882.9	876.1	899.2	848.2	775.1	737.9	721.7
62.5°	9885.6	8427.1	3272.0	923.6	822.7	824.9	851.7	801.8	727.5	692.7	682.2
65°	9868.3	8220.6	2645.4	790.2	764.6	766.9	801.8	750.7	688.1	667.2	666.0
67.5°	9519.0	7717.0	2029.3	703.2	700.8	711.2	751.8	715.9	663.7	661.3	664.8
70°	8573.4	6671.6	1462.0	633.6	634.7	649.7	703.2	693.8	650.9	655.6	654.4
72.5°	6874.7	5086.7	981.6	560.4	561.6	586.0	656.7	676.4	638.2	699.7	708.9
75°	4578.5	3172.3	631.2	482.7	483.8	515.2	616.1	642.8	603.3	697.3	703.2
77.5°	2199.9	1426.0	457.2	406.1	406.1	435.1	532.6	575.5	514.0	541.8	496.6
80°	760.0	536.1	359.7	327.2	320.2	340.0	449.1	499.0	443.2	408.5	382.9
82.5°	299.4	278.5	288.9	254.1	230.9	243.6	349.2	411.9	326.1	294.7	293.6
85°	171.7	181.0	204.2	168.2	133.5	149.6	256.5	295.9	246.0	217.0	221.6
87.5°	46.4	63.9	94.0	87.0	60.4	63.9	121.9	163.6	141.6	109.1	112.5
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)