

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: P964601

Luminaire Tested: **NAV-SB3C-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18622.2 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

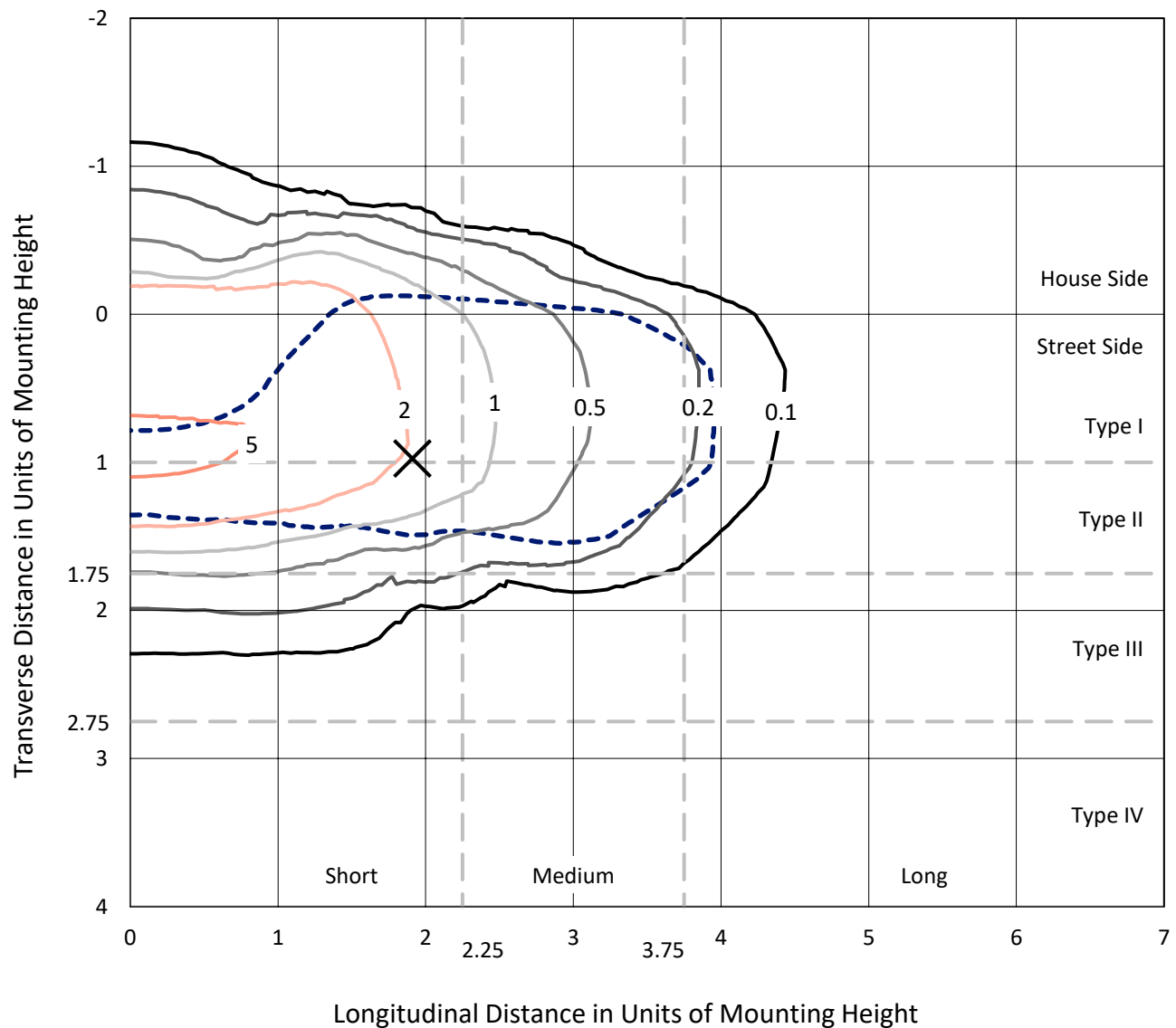
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

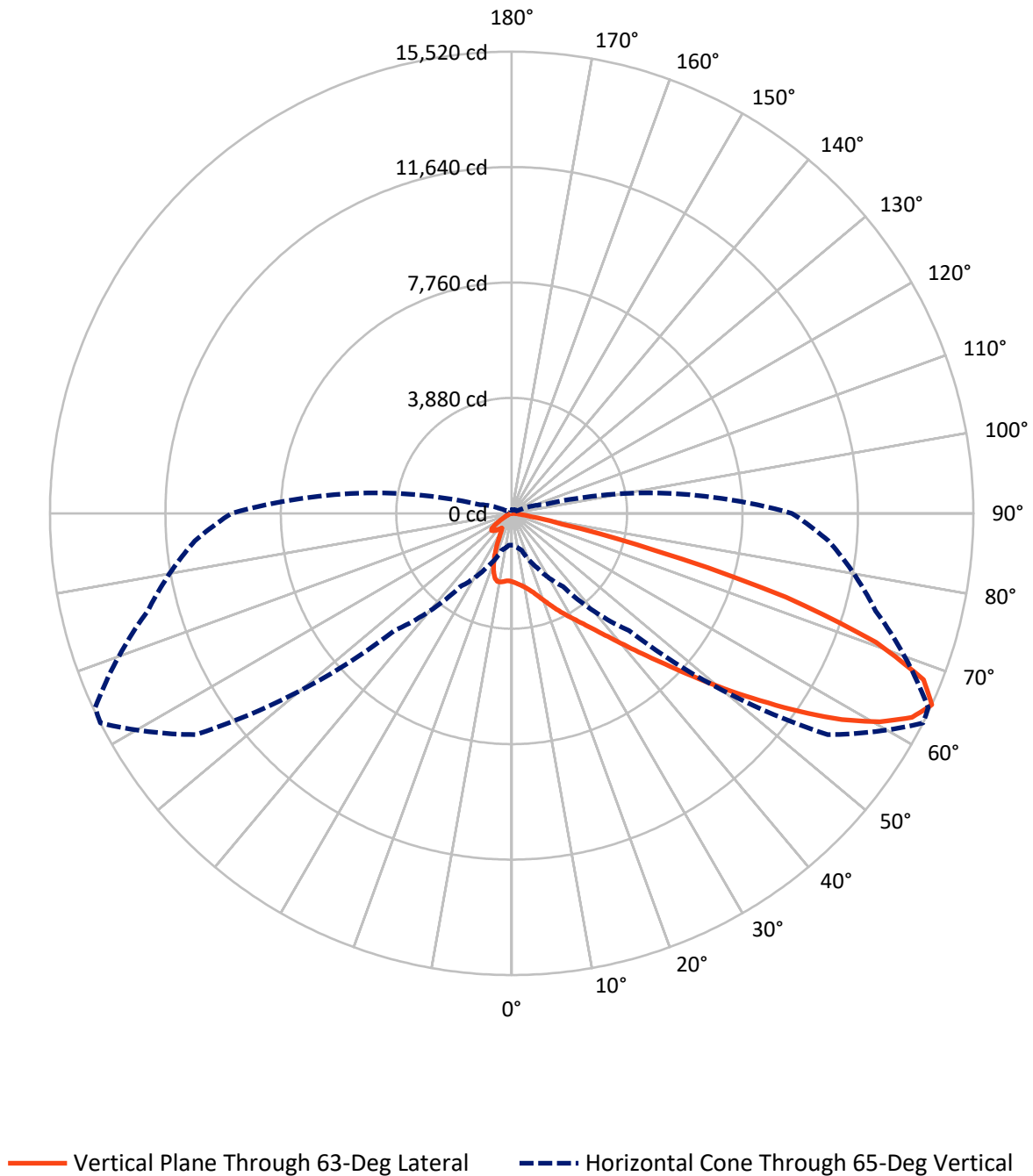
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2737.3	0.0	2737.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15884.9	0.0	15884.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	18622.2	0.0	18622.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	1.2
10°-20°	600.8	3.2
20°-30°	1046.2	5.6
30°-40°	1885.7	10.1
40°-50°	3739.9	20.1
50°-60°	5094.4	27.4
60°-70°	4066.3	21.8
70°-80°	1840.1	9.9
80°-90°	132.3	0.7
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°	18622.2	100.0
0°-180°	18622.2	100.0

Coefficient of Utilization



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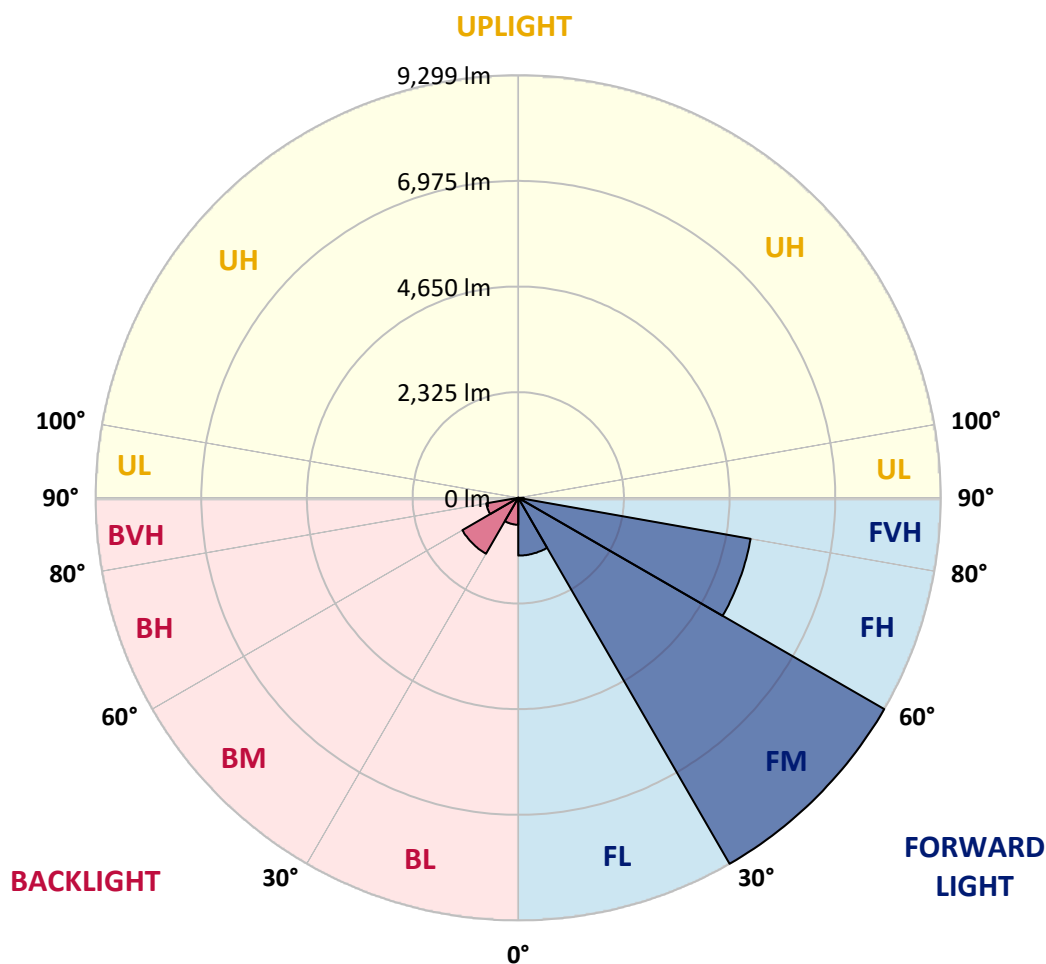
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1271.2	6.8			
FM	(30°-60°)	9299.5	49.9			
FH	(60°-80°)	5191.8	27.9			G3/7500
FVH	(80°-90°)	122.4	0.7			G2/225
BL	(0°-30°)	592.4	3.2	B2/1000		
BM	(30°-60°)	1420.5	7.6	B2/2500		
BH	(60°-80°)	714.6	3.8	B2/1000		G2/1000
BVH	(80°-90°)	9.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2.5°	2352.2	2345.7	2354.7	2350.8	2348.3	2343.1	2340.6	2338.0	2332.9	2329.1	2313.7
5°	2358.5	2354.7	2363.6	2371.3	2379.0	2386.7	2390.6	2395.7	2390.6	2380.4	2365.0
7.5°	2304.7	2302.1	2321.4	2344.5	2379.0	2408.5	2440.5	2458.5	2459.8	2455.9	2439.3
10°	2300.9	2294.5	2313.7	2341.9	2386.7	2439.3	2495.7	2534.1	2539.2	2555.8	2537.9
12.5°	2361.1	2354.7	2381.6	2412.3	2458.5	2513.6	2582.7	2636.5	2644.2	2667.3	2654.4
15°	2462.4	2453.3	2484.1	2523.9	2582.7	2645.5	2718.5	2767.2	2773.6	2801.8	2778.8
17.5°	2580.1	2571.2	2607.1	2649.3	2713.4	2799.3	2883.8	2937.6	2945.3	2963.3	2920.9
20°	2731.3	2719.8	2748.0	2786.5	2854.3	2956.8	3058.0	3134.9	3133.6	3133.6	3064.4
22.5°	2906.9	2889.0	2913.3	2944.0	3008.1	3132.3	3266.9	3357.8	3357.8	3321.9	3207.9
25°	3095.2	3077.3	3104.1	3132.3	3188.7	3329.6	3487.3	3599.9	3605.0	3543.6	3361.7
27.5°	3330.9	3307.9	3328.4	3361.7	3395.0	3538.5	3725.5	3856.2	3858.7	3763.9	3507.8
30°	3784.4	3719.1	3655.0	3619.2	3634.5	3776.7	3976.6	4121.3	4134.1	4003.5	3666.5
32.5°	4614.5	4601.7	4376.3	4081.7	3927.9	4033.0	4257.1	4431.4	4439.1	4271.3	3872.9
35°	5904.7	5889.3	5526.8	4965.6	4464.7	4376.3	4597.9	4804.2	4799.0	4609.4	4140.6
37.5°	7444.6	7430.5	6952.7	6201.9	5391.0	4895.2	5037.4	5253.8	5285.9	5037.4	4486.5
40°	8760.3	8707.8	8405.4	7681.6	6620.9	5756.1	5662.5	5806.0	5839.3	5544.7	4925.9
42.5°	9757.0	9712.2	9558.4	9106.2	8109.5	7029.6	6399.2	6454.3	6491.4	6137.8	5430.7
45°	10273.3	10263.0	10324.5	10282.3	9626.4	8592.5	7452.3	7223.0	7237.0	6795.0	6003.3
47.5°	10346.3	10341.2	10621.8	11019.0	10930.5	10355.3	8803.8	8181.2	8131.3	7536.8	6625.9
50°	9915.8	9905.6	10443.7	11188.1	11801.6	11836.3	10338.7	9261.2	9151.1	8304.2	7275.4
52.5°	8541.2	8538.7	9422.6	10661.5	12107.9	13132.8	11855.5	10447.5	10263.0	9116.5	7962.2
55°	6572.2	6619.6	7633.0	9097.3	11549.3	13756.7	13217.4	11764.5	11481.4	9933.8	8595.0
57.5°	4655.5	4724.7	5726.6	7030.8	9817.2	13387.7	14138.4	13084.1	12779.2	10748.6	9236.9
60°	2500.8	2562.2	3565.4	5121.9	7303.6	12011.8	14624.0	14229.5	13941.1	11522.4	9815.9
62.5°	1489.9	1510.4	1925.6	3306.5	4940.0	9176.6	14417.8	15101.8	14864.9	12172.0	10319.4
65°	1069.7	1073.6	1282.4	2019.0	2999.1	5575.5	12971.4	15519.5	15446.4	12661.3	10692.3
67.5°	900.7	898.1	985.2	1341.3	2043.3	2792.8	9941.5	14928.9	15239.0	12971.4	10903.6
70°	772.5	776.3	878.8	982.7	1536.1	1580.9	4942.5	12998.2	13659.4	13053.4	10890.8
72.5°	575.2	588.0	682.9	895.5	1159.4	1087.6	1706.4	9637.9	10833.1	12298.8	10325.8
75°	406.1	412.6	480.4	753.3	864.8	791.7	871.1	4982.3	6514.5	9429.1	8451.5
77.5°	312.6	324.1	363.9	526.5	852.0	556.0	532.9	1724.4	2649.3	5695.8	5794.5
80°	169.1	189.6	262.6	380.5	598.3	393.3	263.9	686.6	898.1	2663.5	2234.3
82.5°	87.1	97.4	183.2	274.2	340.8	343.4	130.7	285.7	370.2	822.5	306.2
85°	34.5	42.2	123.0	151.2	175.5	169.1	58.9	115.3	133.2	228.1	93.5
87.5°	7.7	12.8	44.8	34.5	33.3	35.9	14.0	26.9	25.6	26.9	16.6
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°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2.5°	2312.4	2307.3	2293.2	2277.9	2259.9	2249.7	2243.2	2242.0	2233.0	2226.6	2233.0
5°	2350.8	2345.7	2318.9	2286.8	2252.2	2225.3	2199.6	2176.6	2143.3	2136.9	2134.4
7.5°	2427.7	2413.7	2370.1	2326.5	2261.1	2183.0	2088.2	1979.4	1882.0	1852.5	1838.4
10°	2522.5	2503.4	2448.2	2371.3	2226.6	2013.9	1784.6	1571.9	1402.8	1355.5	1337.5
12.5°	2630.1	2613.4	2540.5	2398.3	2081.8	1696.2	1345.2	1081.3	917.3	876.3	864.8
15°	2758.3	2733.9	2632.7	2357.3	1823.1	1288.8	923.7	767.4	708.5	700.8	693.1
17.5°	2894.1	2854.3	2714.7	2209.9	1474.6	916.0	713.6	668.7	643.1	635.4	631.6
20°	3018.3	2967.1	2763.4	1987.1	1101.8	713.6	639.3	609.8	586.7	577.8	572.7
22.5°	3142.5	3069.6	2763.4	1683.4	826.4	632.8	586.7	559.9	532.9	521.4	515.0
25°	3272.0	3174.6	2714.7	1345.2	664.9	580.4	536.8	507.4	484.3	470.2	465.0
27.5°	3397.6	3263.0	2603.2	1024.9	591.8	534.2	490.7	462.5	440.7	430.5	430.5
30°	3516.7	3350.1	2447.0	777.7	544.5	489.4	448.4	424.0	402.3	392.1	393.3
32.5°	3678.1	3460.3	2280.4	638.0	503.5	447.1	410.0	386.9	367.7	360.0	360.0
35°	3902.3	3623.0	2136.9	626.5	468.9	412.6	375.4	353.6	334.4	328.0	328.0
37.5°	4220.0	3885.7	2061.3	703.4	440.7	381.8	347.2	324.1	306.2	301.0	299.8
40°	4612.0	4241.8	2102.3	780.2	421.5	354.9	321.5	298.5	283.1	276.8	275.4
42.5°	5077.1	4681.2	2329.1	839.2	408.7	331.8	297.2	271.6	261.4	258.8	258.8
45°	5611.3	5164.2	2676.3	901.9	388.2	310.1	272.9	253.7	246.0	244.7	243.4
47.5°	6218.6	5694.6	3078.5	980.1	367.7	289.6	253.7	240.9	234.4	231.9	231.9
50°	6820.7	6228.8	3492.4	1023.6	351.1	270.3	238.3	228.1	222.9	221.6	221.6
52.5°	7451.0	6778.4	3826.7	982.7	336.9	254.9	225.5	217.8	212.7	211.4	211.4
55°	8051.9	7223.0	3884.3	834.0	308.7	239.5	211.4	207.6	201.1	201.1	199.9
57.5°	8569.4	7445.9	3477.0	612.3	280.5	216.5	197.3	193.4	188.3	187.1	185.7
60°	9044.7	7381.8	2684.0	412.6	249.8	193.4	179.4	176.8	171.7	165.2	164.0
62.5°	9312.4	7100.0	1835.9	269.1	219.0	169.1	158.9	157.5	146.1	133.2	130.7
65°	9413.7	6520.9	1145.3	196.0	183.2	144.7	137.0	134.5	117.9	103.7	102.5
67.5°	9325.2	5567.8	577.8	155.0	144.7	120.4	112.7	112.7	101.2	88.4	87.1
70°	8971.7	4173.9	243.4	124.2	111.4	92.2	92.2	97.4	85.8	71.8	70.4
72.5°	8204.3	2808.2	129.4	94.8	83.2	65.3	75.5	79.4	67.9	53.8	53.8
75°	6522.2	1712.9	89.7	70.4	52.5	46.1	57.6	60.2	46.1	35.9	34.5
77.5°	4460.9	983.9	60.2	44.8	33.3	26.9	39.7	37.1	24.3	16.6	17.9
80°	1958.9	410.0	34.5	20.5	12.8	10.2	14.0	10.2	7.7	5.1	5.1
82.5°	229.3	96.0	12.8	7.7	5.1	2.6	1.2	0.0	0.0	0.0	0.0
85°	47.4	11.5	6.4	2.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	2.6	1.2	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)