

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: P964572

Luminaire Tested: **NAV-SB3C-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22820.6 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - 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



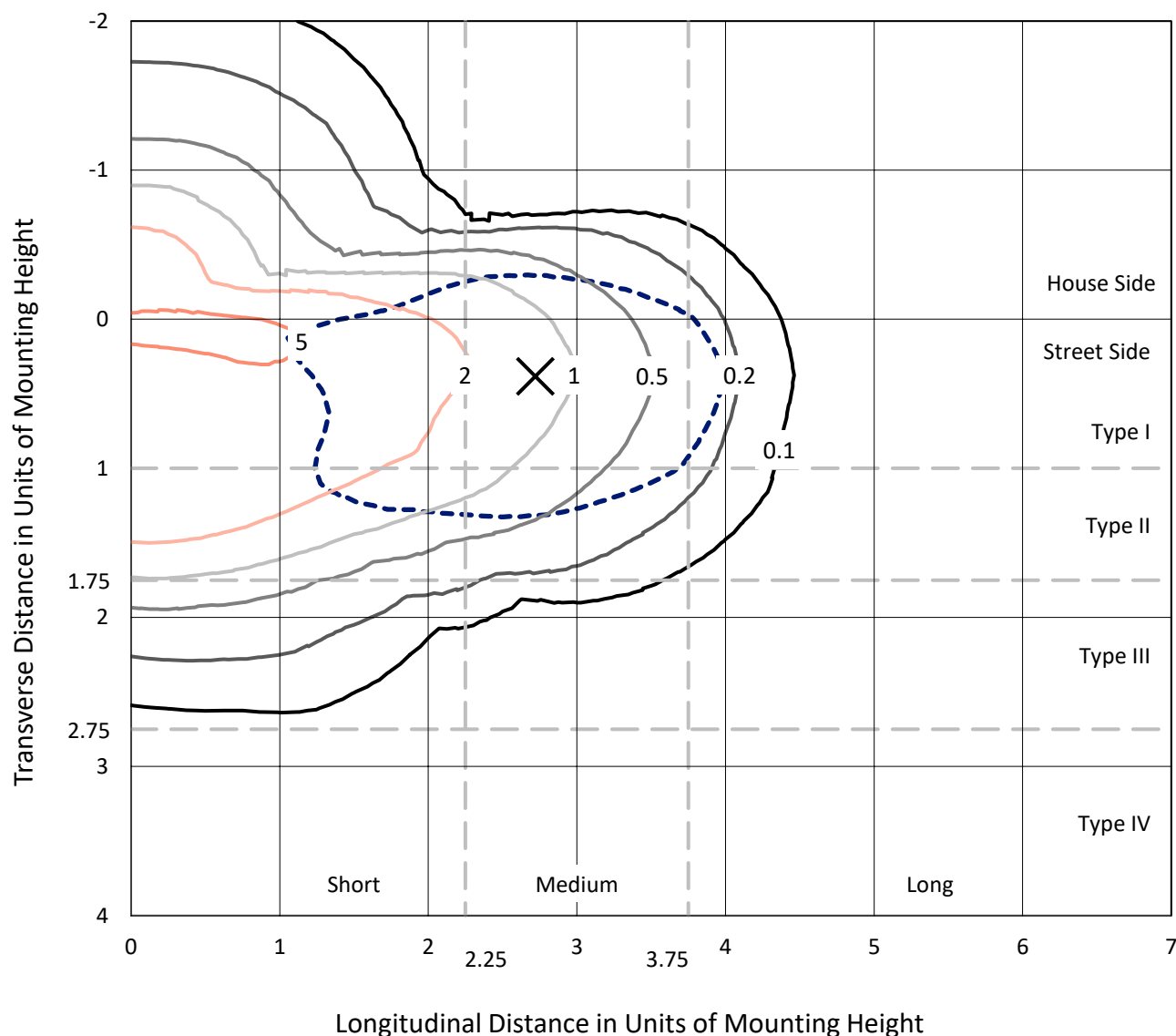
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

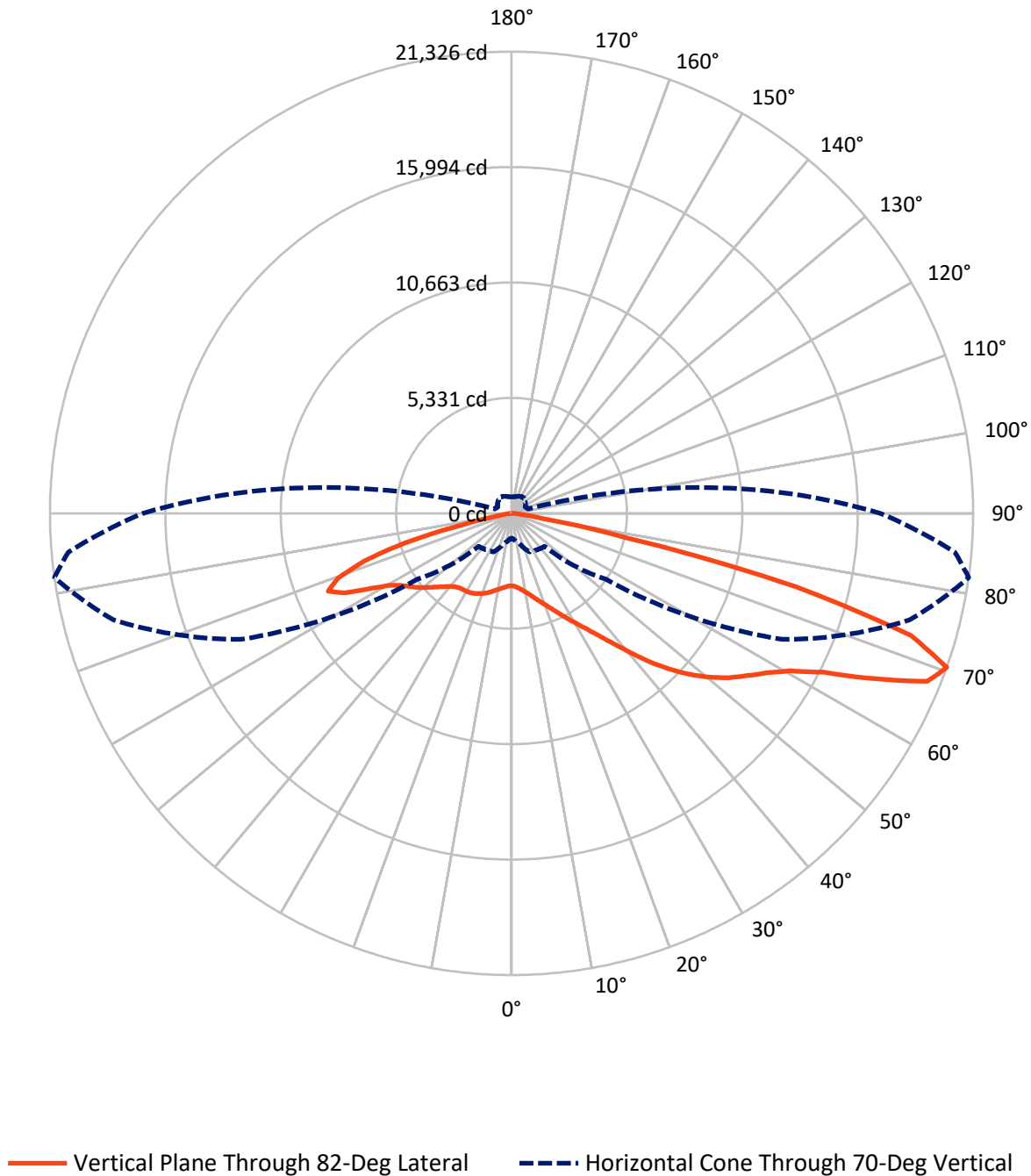
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5625.8	0.0	5625.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	17194.8	0.0	17194.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	22820.6	0.0	22820.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.4
10°-20°	907.6	4.0
20°-30°	1518.3	6.7
30°-40°	2372.0	10.4
40°-50°	3777.7	16.6
50°-60°	5257.2	23.0
60°-70°	5499.2	24.1
70°-80°	2874.2	12.6
80°-90°	298.5	1.3
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°	22820.6	100.0
0°-180°	22820.6	100.0

Coefficient of Utilization



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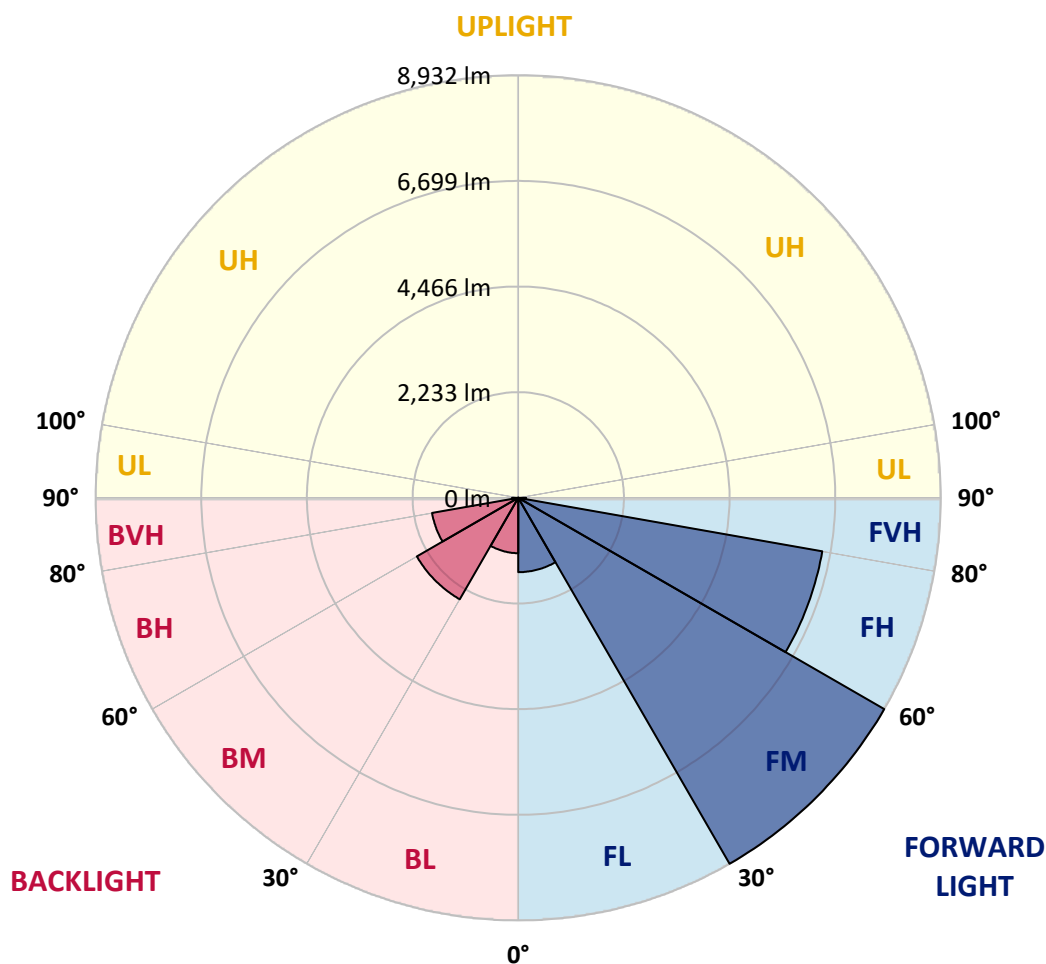
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1571.5	6.9			
FM	(30°-60°)	8931.7	39.1			
FH	(60°-80°)	6524.5	28.6			G3/7500
FVH	(80°-90°)	167.1	0.7			G2/225
BL	(0°-30°)	1170.4	5.1	B3/2500		
BM	(30°-60°)	2475.1	10.8	B2/2500		
BH	(60°-80°)	1848.9	8.1	B3/2500		G3/2500
BVH	(80°-90°)	131.4	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8
2.5°	3425.8	3445.1	3439.0	3432.9	3432.9	3424.5	3423.3	3411.2	3401.5	3385.8	3382.1
5°	3469.3	3489.9	3487.5	3492.3	3508.1	3511.6	3515.3	3508.1	3488.7	3469.3	3460.8
7.5°	3430.6	3453.5	3460.8	3489.9	3538.3	3582.0	3614.6	3627.9	3609.7	3582.0	3568.6
10°	3299.8	3325.2	3350.6	3419.6	3505.6	3608.5	3695.7	3747.8	3744.2	3717.6	3694.5
12.5°	3034.6	3061.3	3115.7	3250.2	3407.5	3589.1	3751.4	3860.5	3898.0	3878.6	3838.6
15°	2822.6	2845.7	2886.8	3024.9	3229.6	3505.6	3772.0	3984.0	4079.6	4068.7	4020.3
17.5°	2816.6	2826.3	2851.8	2917.1	3074.5	3374.8	3750.3	4105.0	4287.9	4286.7	4226.2
20°	2923.2	2926.8	2941.3	2954.7	3044.2	3275.6	3694.5	4205.6	4521.6	4521.6	4456.2
22.5°	3070.9	3068.4	3083.0	3070.9	3114.5	3267.1	3659.5	4293.9	4781.9	4801.3	4719.0
25°	3292.5	3280.4	3276.7	3248.9	3257.3	3345.8	3698.2	4394.5	5090.8	5130.6	5027.7
27.5°	3588.0	3568.6	3555.3	3491.0	3469.3	3508.1	3816.8	4515.5	5434.7	5503.6	5372.8
30°	3973.0	3937.9	3918.6	3807.2	3728.4	3734.5	3996.1	4676.6	5794.3	5905.6	5739.8
32.5°	4498.6	4444.1	4392.0	4209.2	4065.0	4017.9	4227.3	4899.4	6184.2	6362.2	6149.1
35°	5087.1	5043.5	4987.8	4705.7	4484.1	4375.1	4539.7	5210.6	6640.7	6922.8	6645.6
37.5°	5653.8	5616.3	5642.9	5262.7	4976.9	4818.3	4949.0	5628.4	7203.8	7620.4	7268.0
40°	6239.9	6210.8	6214.5	5851.2	5518.2	5340.1	5445.5	6152.7	7849.2	8449.8	8016.3
42.5°	6876.8	6855.0	6782.4	6460.3	6086.1	5920.2	6017.1	6758.1	8541.8	9394.3	8837.3
45°	7590.1	7576.8	7508.9	7139.6	6711.0	6524.4	6655.2	7426.6	9238.1	10283.2	9662.0
47.5°	8206.5	8217.3	8208.8	7897.6	7453.3	7179.6	7335.8	8124.0	9886.0	11118.7	10452.7
50°	8503.1	8560.0	8643.6	8546.8	8270.6	7992.1	8022.4	8797.4	10503.6	11902.2	11210.7
52.5°	8348.1	8455.8	8683.5	8838.6	8945.1	8887.0	8805.9	9465.8	11084.8	12609.3	11927.6
55°	7770.5	7921.9	8299.6	8673.9	9217.5	9640.1	9746.7	10206.8	11651.5	13231.7	12605.8
57.5°	6718.3	6964.1	7303.1	8059.9	8975.4	10004.6	10843.8	11234.9	12252.1	13896.5	13315.4
60°	4914.0	5243.3	5664.7	6790.8	8127.7	9809.7	11777.5	12814.0	13105.9	14757.5	14239.3
62.5°	3144.8	3348.2	3735.7	4796.5	6333.2	8810.7	12063.2	14787.8	14552.8	16169.5	15624.6
65°	2153.0	2283.8	2638.6	3234.4	4094.2	6558.4	11298.0	16267.6	16851.2	18407.3	17993.2
67.5°	1564.6	1663.8	1966.6	2488.5	2667.7	3881.1	8767.1	16199.7	19085.4	20712.9	20068.7
70°	1140.7	1210.9	1465.2	1966.6	2052.6	2159.1	5311.1	13770.7	19036.9	21325.6	20554.2
72.5°	845.2	893.7	1064.4	1525.8	1661.4	1458.0	2628.9	10008.3	16358.4	19288.9	18670.1
75°	611.5	647.8	773.8	1167.4	1329.6	1110.4	1311.4	5848.8	11410.5	13568.4	13677.4
77.5°	467.4	495.3	577.6	855.0	1064.4	833.1	813.7	2690.6	5410.5	5437.0	5742.3
80°	375.4	393.6	438.4	601.9	816.2	623.6	530.3	1086.2	1709.8	1447.1	1518.5
82.5°	276.1	306.4	370.5	422.6	583.6	429.9	323.3	548.6	650.3	559.4	564.3
85°	157.4	178.0	224.1	302.7	373.0	262.8	185.3	243.4	302.7	248.3	221.6
87.5°	55.7	72.7	78.7	118.7	162.3	109.0	71.4	70.2	99.3	73.9	61.8
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°	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8	3345.8
2.5°	3370.0	3363.9	3339.8	3307.1	3273.1	3240.4	3229.6	3206.5	3190.8	3182.3	3192.0
5°	3437.8	3418.5	3361.5	3288.9	3212.6	3130.2	3072.1	3018.8	2980.1	2943.8	2958.3
7.5°	3534.7	3500.8	3402.7	3275.6	3139.9	3003.0	2901.4	2823.9	2771.8	2737.9	2745.2
10°	3647.3	3595.2	3445.1	3255.0	3045.5	2849.3	2729.5	2662.8	2630.1	2612.0	2616.8
12.5°	3776.9	3703.0	3488.7	3207.7	2901.4	2677.4	2595.0	2575.6	2576.8	2578.1	2580.4
15°	3936.7	3833.8	3523.7	3104.8	2713.7	2545.4	2530.8	2562.3	2595.0	2610.8	2609.5
17.5°	4117.1	3971.9	3529.9	2935.3	2529.6	2460.6	2506.6	2574.4	2624.1	2645.8	2650.8
20°	4310.8	4112.3	3486.2	2695.5	2378.3	2391.5	2473.9	2561.1	2615.6	2643.5	2650.8
22.5°	4532.4	4262.5	3382.1	2443.6	2254.7	2316.5	2413.4	2498.1	2555.0	2582.9	2590.2
25°	4785.6	4430.8	3218.6	2231.7	2148.2	2231.7	2328.6	2398.8	2444.8	2470.2	2477.5
27.5°	5066.5	4606.3	3000.7	2063.4	2054.9	2144.5	2224.5	2279.0	2303.2	2322.5	2329.8
30°	5348.7	4766.2	2736.6	1936.2	1973.8	2058.6	2115.5	2139.7	2147.0	2150.6	2159.1
32.5°	5653.8	4904.2	2459.4	1831.0	1896.4	1975.0	2008.9	2019.9	1985.9	1962.9	1970.2
35°	6023.1	5052.0	2188.2	1747.3	1820.0	1887.8	1898.7	1889.1	1849.1	1801.8	1804.3
37.5°	6479.6	5236.0	1971.4	1688.1	1748.5	1793.3	1780.0	1777.7	1781.2	1725.6	1729.2
40°	7039.1	5475.8	1812.7	1642.0	1690.4	1700.2	1662.6	1683.2	1701.4	1616.6	1619.0
42.5°	7660.3	5765.2	1712.3	1610.5	1642.0	1619.0	1560.9	1583.9	1581.5	1470.1	1468.8
45°	8293.6	6080.1	1677.1	1587.5	1597.3	1551.2	1487.0	1493.1	1442.2	1341.7	1345.3
47.5°	8923.3	6417.9	1698.9	1568.1	1541.5	1489.4	1439.8	1413.2	1338.0	1263.0	1263.0
50°	9540.9	6772.7	1778.9	1529.4	1465.2	1434.9	1398.6	1351.4	1271.5	1207.2	1202.4
52.5°	10113.7	7129.9	1868.5	1465.2	1369.6	1387.7	1364.7	1310.3	1231.5	1166.1	1167.4
55°	10656.1	7487.1	1903.5	1376.8	1279.9	1346.5	1333.2	1232.8	1138.3	1085.0	1080.1
57.5°	11247.1	7917.0	1864.8	1264.2	1207.2	1299.3	1248.4	1137.0	1082.6	1042.6	1038.9
60°	12065.7	8591.6	1781.2	1124.9	1138.3	1229.1	1142.0	1095.9	1036.6	991.8	989.3
62.5°	13425.6	9849.6	1646.9	986.9	1057.2	1124.9	1091.0	1045.0	984.5	940.8	940.8
65°	15435.7	11598.3	1393.8	879.1	966.3	1023.3	1036.6	990.6	927.5	881.6	884.0
67.5°	17130.9	12695.3	1054.7	789.6	873.1	940.8	978.5	933.7	867.0	822.3	823.4
70°	17037.8	11898.5	805.2	701.1	790.7	859.8	908.2	873.1	801.7	759.2	762.9
72.5°	15132.9	9953.8	651.5	611.5	707.1	775.0	833.1	806.5	733.8	692.7	692.7
75°	11117.5	7065.7	520.7	520.7	603.0	686.5	750.8	733.8	667.2	638.2	629.7
77.5°	4686.3	2964.3	408.1	432.3	501.3	589.7	669.6	675.7	617.6	653.9	593.4
80°	1246.1	817.3	311.2	340.3	393.6	486.8	582.4	580.0	517.1	483.2	449.3
82.5°	474.7	322.1	221.6	239.7	284.5	373.0	461.4	475.9	413.0	357.2	357.2
85°	182.9	138.1	136.8	144.1	165.9	247.0	348.7	360.9	311.2	263.9	272.4
87.5°	47.3	41.2	50.8	48.5	76.3	132.0	199.8	207.0	190.1	110.2	157.4
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)