

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: P966865

Luminaire Tested: **NAV-SB4C-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-835-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28918.3 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 200.7
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



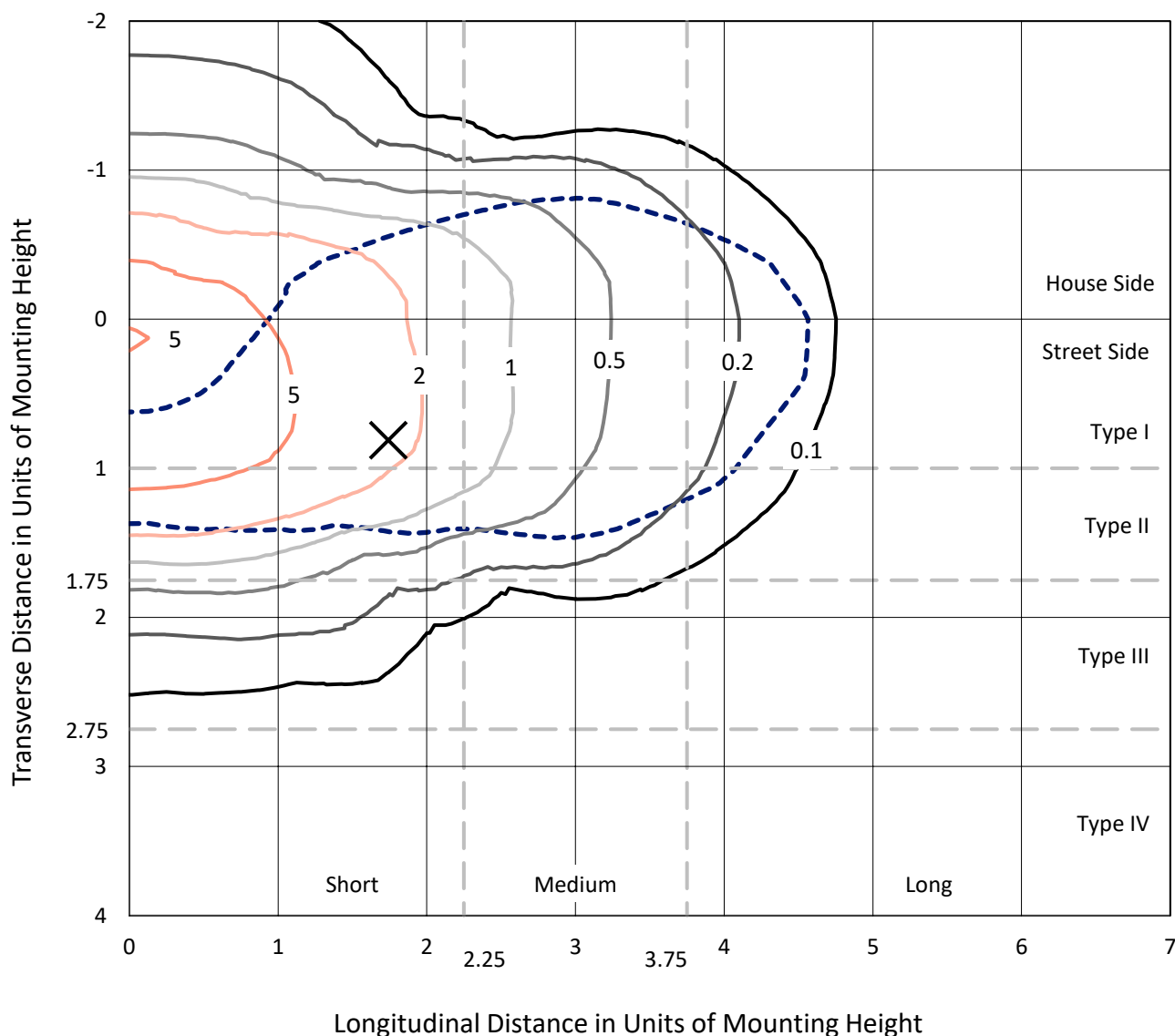
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

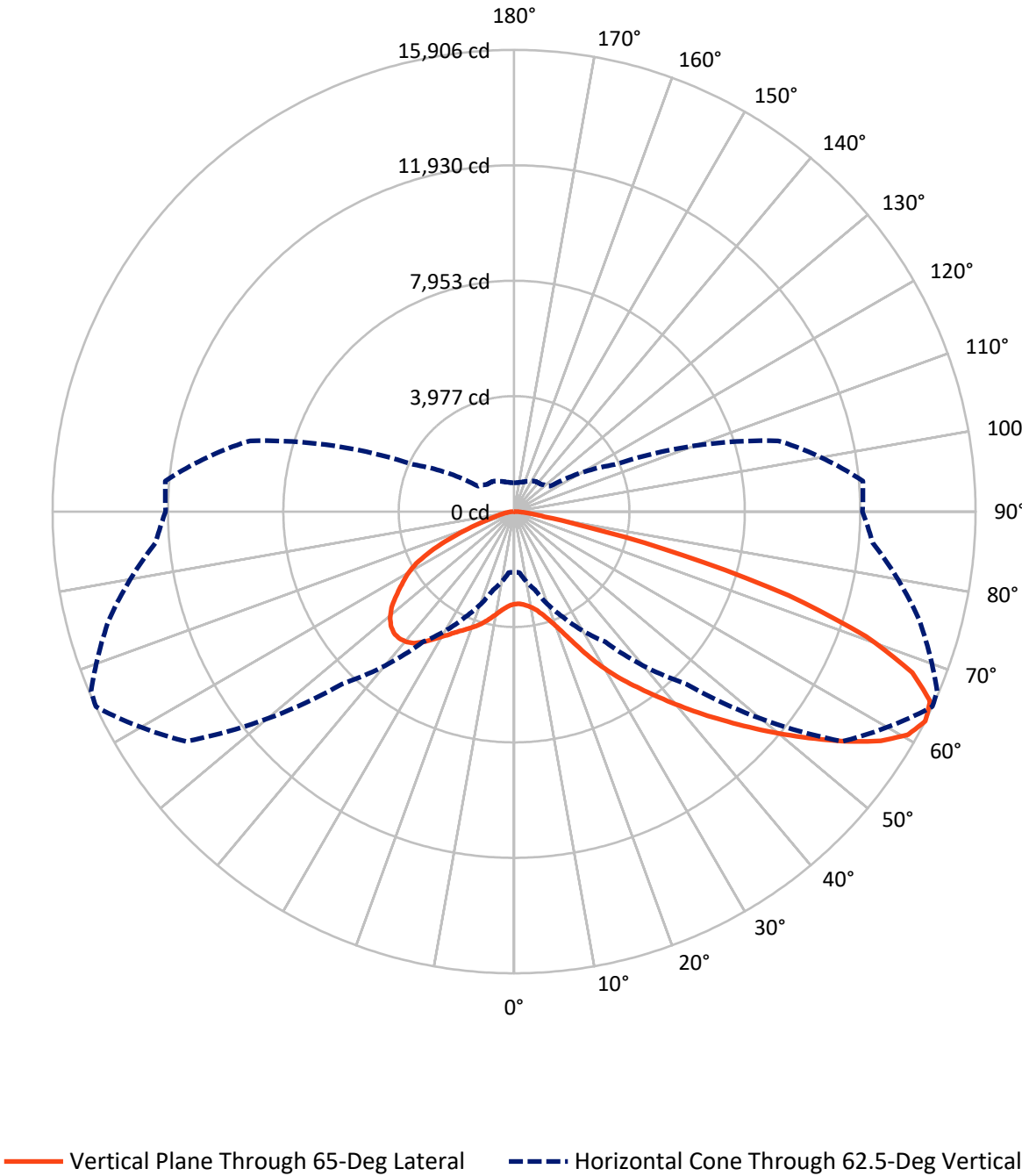


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

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	9125.4	0.0	9125.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19793.0	0.0	19793.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	28918.3	0.0	28918.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	1.1
10°-20°	1077.4	3.7
20°-30°	2184.5	7.6
30°-40°	3780.2	13.1
40°-50°	5720.7	19.8
50°-60°	6707.1	23.2
60°-70°	5623.1	19.4
70°-80°	3104.4	10.7
80°-90°	403.3	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°	28918.3	100.0
0°-180°	28918.3	100.0

Coefficient of Utilization



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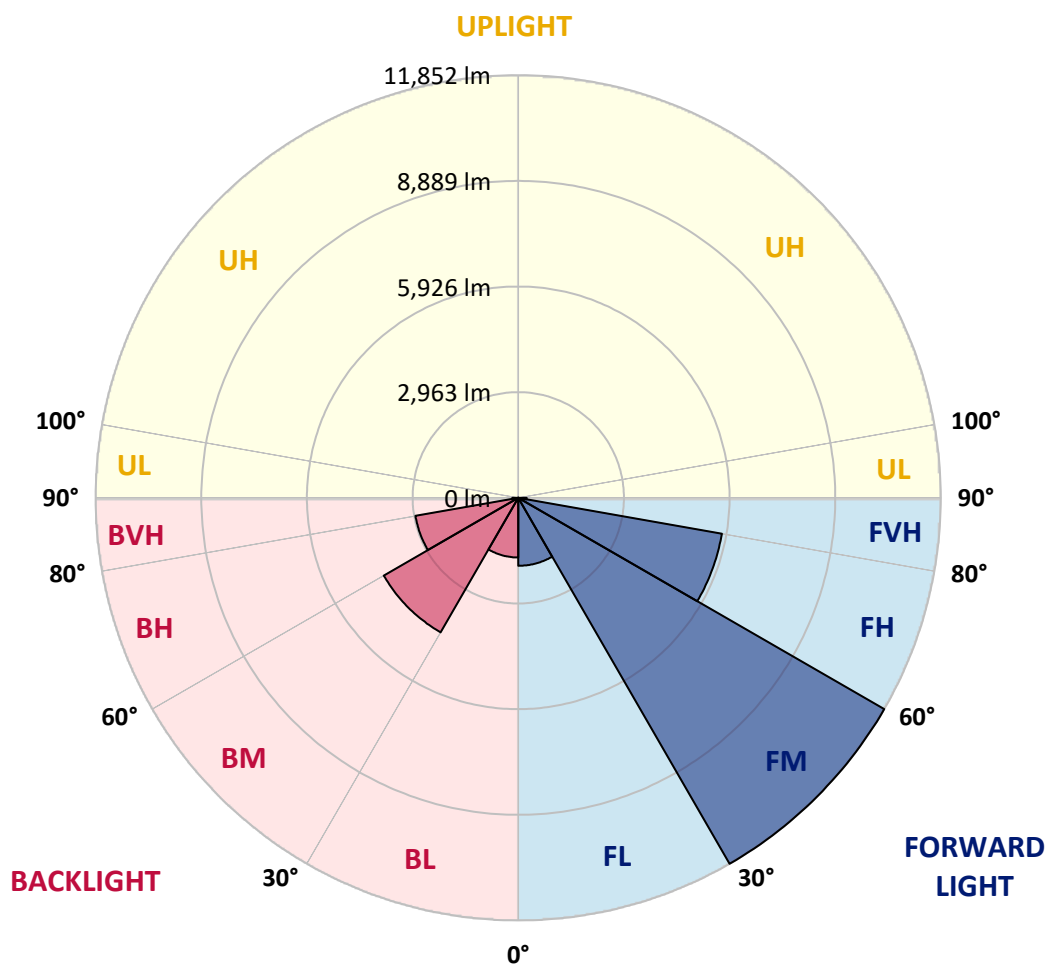
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1906.1	6.6			
FM	(30°-60°)	11851.7	41.0			
FH	(60°-80°)	5800.2	20.1			G3/7500
FVH	(80°-90°)	235.0	0.8			G3/500
BL	(0°-30°)	1673.5	5.8	B3/2500		
BM	(30°-60°)	4356.3	15.1	B3/5000		
BH	(60°-80°)	2927.3	10.1	B4/5000		G4/5000
BVH	(80°-90°)	168.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7
2.5°	3165.7	3156.7	3164.2	3164.2	3167.1	3165.7	3176.2	3179.1	3183.6	3192.7	3192.7
5°	3134.1	3132.7	3146.1	3158.1	3170.1	3180.7	3194.2	3213.7	3216.7	3227.2	3240.6
7.5°	3123.7	3114.7	3135.7	3150.6	3179.1	3204.7	3240.6	3273.6	3287.2	3291.7	3317.2
10°	3204.7	3189.7	3209.2	3218.2	3242.2	3267.7	3309.7	3362.2	3377.2	3395.2	3423.7
12.5°	3342.7	3326.2	3354.7	3368.3	3390.7	3413.2	3441.7	3492.8	3500.3	3533.3	3560.2
15°	3531.7	3512.3	3530.2	3546.7	3584.2	3605.2	3633.7	3683.2	3683.2	3708.8	3728.3
17.5°	3788.3	3762.8	3776.3	3782.2	3806.3	3837.8	3885.8	3929.3	3951.8	3942.9	3915.8
20°	4170.9	4139.4	4139.4	4109.3	4100.4	4125.8	4188.9	4248.9	4272.9	4226.4	4160.4
22.5°	4745.5	4700.4	4675.0	4572.9	4532.4	4535.4	4598.5	4672.0	4691.5	4609.0	4460.5
25°	5476.2	5405.6	5371.1	5221.1	5129.6	5050.1	5099.6	5194.1	5221.1	5119.1	4879.0
27.5°	6206.8	6211.3	6178.3	5998.3	5846.7	5701.3	5675.7	5774.7	5803.2	5687.7	5390.7
30°	7231.6	7125.0	7061.9	6846.0	6629.9	6425.8	6320.9	6361.4	6368.8	6230.8	5885.8
32.5°	8115.2	8088.2	7953.2	7764.2	7486.6	7167.0	6991.5	6927.0	6915.0	6718.5	6308.9
35°	9121.9	9106.9	8964.4	8739.4	8439.2	7995.2	7678.6	7494.1	7479.1	7203.0	6727.4
37.5°	10145.1	10145.1	10005.6	9759.5	9449.0	8893.9	8412.3	8119.7	8071.7	7711.6	7153.5
40°	10961.3	10911.8	10937.3	10833.8	10478.3	9888.6	9226.9	8802.4	8737.8	8305.8	7606.6
42.5°	11425.0	11408.5	11561.5	11677.0	11531.5	11060.4	10124.1	9542.0	9452.0	8959.9	8128.8
45°	11528.5	11510.4	11783.5	12206.6	12410.6	12217.1	11099.3	10320.7	10211.2	9644.0	8688.3
47.5°	11289.9	11253.9	11654.5	12322.1	12976.3	13316.8	12155.6	11165.3	11006.3	10310.2	9262.9
50°	10572.8	10538.2	11144.3	12031.0	13166.7	14064.0	13301.8	12061.1	11818.0	11024.3	9843.6
52.5°	9014.0	9030.5	9980.1	11198.3	12916.2	14529.1	14289.0	13004.8	12712.2	11755.0	10388.2
55°	7021.5	7057.5	8224.7	9566.0	11914.0	14458.5	14962.6	13977.0	13685.9	12442.2	10950.8
57.5°	5027.5	5186.6	6280.3	7608.1	9989.1	13340.8	15109.7	14901.1	14619.1	13192.3	11501.4
60°	3258.7	3287.2	4412.4	5750.8	7606.6	11354.4	14811.1	15601.8	15381.3	13957.4	11962.1
62.5°	2088.4	2107.9	2793.6	4022.3	5474.6	8400.3	13805.9	15906.4	15838.8	14463.1	12404.7
65°	1534.8	1519.9	1876.9	2658.5	3687.7	5180.6	11854.0	15759.4	15892.8	14779.6	12770.7
67.5°	1281.2	1260.2	1435.8	1840.9	2717.1	2942.2	8770.8	14803.7	15292.7	14743.6	13039.2
70°	1167.3	1149.2	1255.7	1366.8	2119.9	1969.9	4421.4	12869.7	13622.9	14334.0	12995.8
72.5°	988.7	957.2	1102.7	1213.8	1648.8	1510.8	1827.4	9885.6	10803.8	13021.3	12383.6
75°	766.7	745.7	870.2	1068.3	1239.2	1179.3	1155.3	6002.8	7005.0	10070.1	10833.8
77.5°	607.6	579.1	693.1	832.7	1114.7	889.7	841.6	2585.0	3578.3	6428.9	8106.2
80°	457.6	432.1	526.6	658.7	856.7	670.7	544.6	1054.7	1348.8	3257.1	4076.3
82.5°	325.5	303.1	367.6	483.1	576.2	601.7	334.6	591.1	664.6	1255.7	910.7
85°	208.6	195.1	246.1	303.1	366.0	387.0	204.1	309.0	339.1	517.6	379.6
87.5°	114.0	93.1	132.0	141.0	169.5	154.6	97.5	112.5	121.6	187.6	160.5
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°	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7	3186.7
2.5°	3198.7	3203.2	3218.2	3222.7	3233.2	3246.7	3255.7	3264.7	3264.7	3273.6	3273.6
5°	3242.2	3252.7	3284.2	3300.7	3327.7	3354.7	3371.2	3390.7	3402.7	3408.7	3411.7
7.5°	3326.2	3342.7	3387.7	3416.2	3462.8	3500.3	3525.8	3552.8	3558.8	3575.3	3569.3
10°	3440.2	3459.7	3510.7	3564.7	3620.3	3666.7	3690.8	3710.3	3717.8	3720.7	3713.3
12.5°	3570.8	3599.3	3665.3	3731.3	3789.8	3830.3	3836.3	3831.9	3810.8	3792.8	3792.8
15°	3731.3	3756.8	3830.3	3902.3	3959.4	3966.9	3929.3	3905.4	3879.8	3875.3	3875.3
17.5°	3923.3	3936.8	4004.4	4074.9	4079.4	4053.9	3998.3	3975.9	3951.8	3935.3	3936.8
20°	4146.8	4142.3	4190.4	4220.4	4188.9	4110.9	4026.8	3989.3	3965.3	3945.8	3947.4
22.5°	4414.0	4379.4	4373.5	4365.9	4281.9	4118.3	4004.4	3956.3	3918.8	3891.8	3900.8
25°	4802.5	4670.5	4579.0	4527.9	4338.9	4077.9	3932.3	3825.8	3755.3	3708.8	3726.8
27.5°	5288.6	5066.6	4835.5	4711.0	4338.9	3995.3	3758.3	3585.8	3470.2	3422.3	3446.3
30°	5752.2	5519.6	5179.1	4931.6	4328.4	3860.4	3477.7	3237.7	3102.7	3054.6	3083.2
32.5°	6148.3	5894.8	5543.7	5173.1	4303.0	3641.3	3129.6	2864.1	2733.6	2676.6	2705.1
35°	6515.9	6245.8	5909.7	5438.6	4235.4	3320.2	2747.1	2544.6	2399.0	2307.5	2337.5
37.5°	6892.4	6571.4	6256.3	5678.7	4113.8	2945.1	2453.0	2280.5	2109.4	1986.4	2019.5
40°	7302.0	6917.9	6626.9	5821.3	3914.4	2588.0	2225.0	2067.4	1885.9	1755.4	1780.8
42.5°	7780.7	7333.6	7039.5	5894.8	3641.3	2334.5	2076.4	1921.9	1750.9	1644.3	1665.3
45°	8280.3	7791.1	7416.1	5893.2	3336.7	2215.9	2028.5	1875.4	1686.3	1575.3	1593.4
47.5°	8803.8	8269.7	7741.6	5797.2	3072.6	2232.4	2001.4	1774.9	1566.3	1458.3	1473.3
50°	9328.9	8793.4	8056.7	5617.2	2960.1	2196.5	1900.9	1633.8	1387.7	1290.3	1296.3
52.5°	9849.5	9349.9	8328.2	5360.6	2846.1	2062.9	1771.9	1450.8	1314.3	1246.8	1246.8
55°	10373.2	9900.6	8623.8	4987.0	2561.1	1906.9	1555.8	1381.8	1255.7	1194.2	1188.3
57.5°	10898.3	10536.7	8904.4	4613.5	2202.4	1714.8	1437.3	1297.8	1197.3	1144.7	1135.7
60°	11444.4	11264.3	9193.9	4269.9	1848.4	1468.8	1350.3	1230.3	1128.2	1069.7	1065.2
62.5°	12007.1	12065.6	9420.5	3827.3	1522.8	1318.8	1272.2	1149.2	1050.2	994.7	993.2
65°	12574.2	12838.2	9569.0	3213.7	1234.7	1176.3	1188.3	1060.8	960.2	912.1	910.7
67.5°	13001.7	13394.8	9527.0	2432.0	1012.7	1041.2	1083.2	967.7	873.2	835.7	837.2
70°	13049.8	13328.8	9113.0	1665.3	847.7	909.2	966.2	876.2	778.7	751.6	753.2
72.5°	12410.6	12428.6	7959.2	1087.7	717.2	798.2	843.2	783.2	688.6	661.6	660.1
75°	10734.7	10278.7	5843.7	717.2	600.1	685.6	727.6	685.6	594.1	600.1	579.1
77.5°	8133.2	7279.6	3548.2	510.1	501.1	576.2	633.1	603.1	525.1	589.6	519.1
80°	4190.4	3938.4	1582.8	381.1	396.1	460.6	520.6	481.6	415.6	396.1	361.6
82.5°	960.2	1116.2	624.1	273.1	286.6	331.6	397.6	361.6	298.6	252.0	249.1
85°	336.1	367.6	276.0	171.1	168.0	207.0	270.1	241.6	202.5	162.1	171.1
87.5°	106.5	139.5	103.5	69.0	72.1	93.1	124.5	114.0	94.5	61.5	64.5
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)