

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: P964598

Luminaire Tested: **NAV-SB3C-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

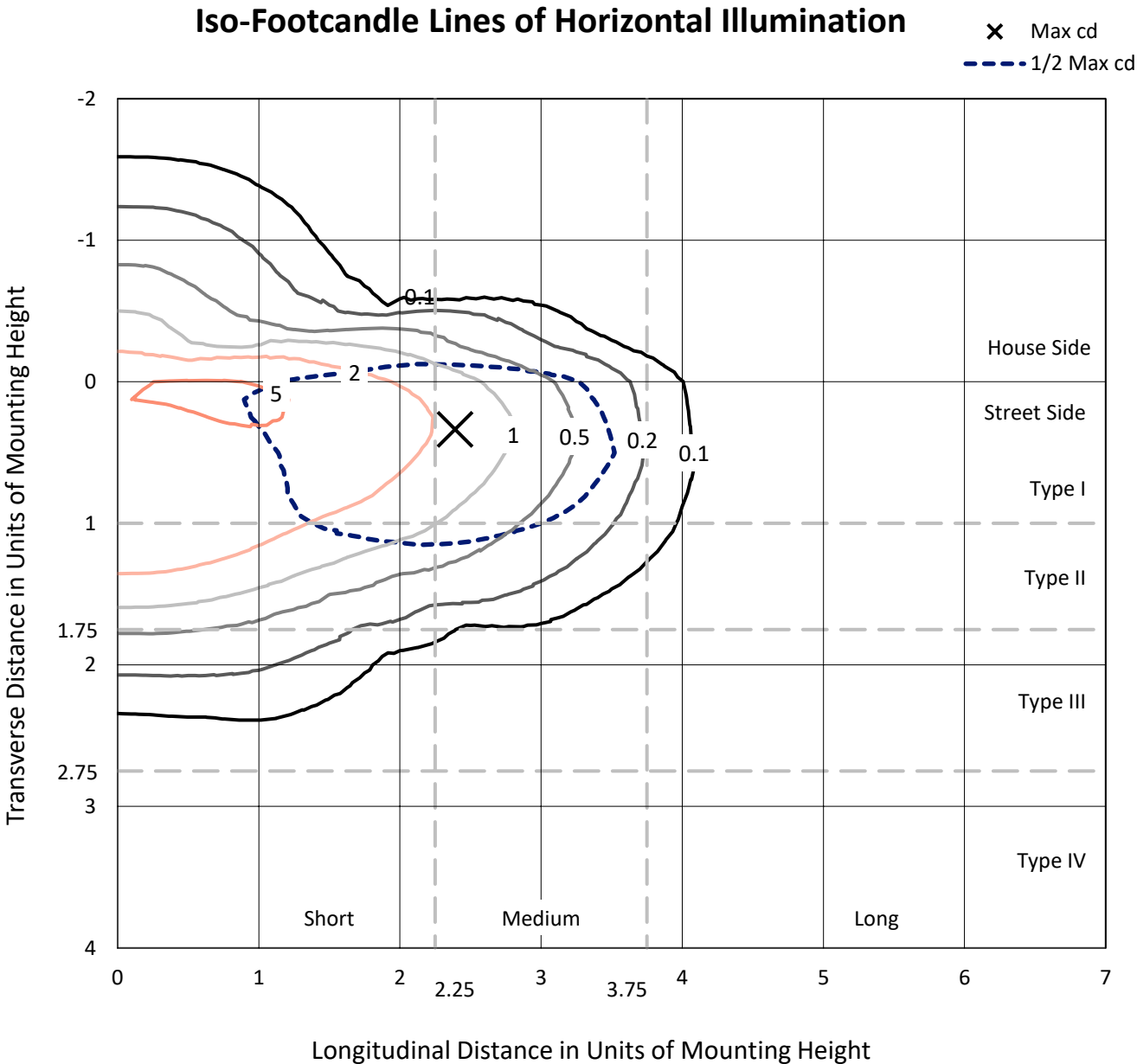
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17792.9 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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



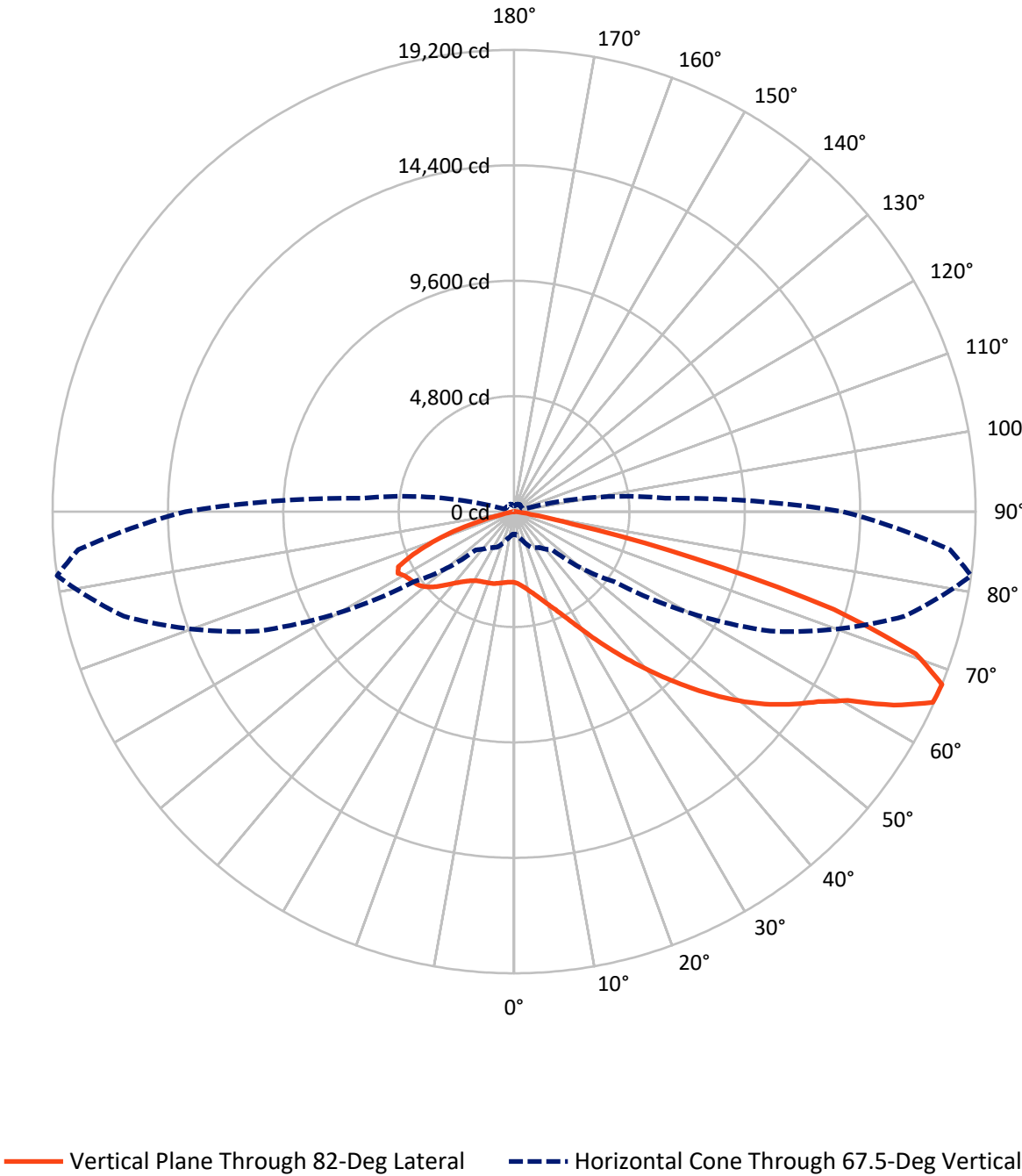
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Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.0	0.0	3223.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14569.9	0.0	14569.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	17792.9	0.0	17792.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	1.5
10°-20°	682.4	3.8
20°-30°	1093.0	6.1
30°-40°	1932.8	10.9
40°-50°	3386.5	19.0
50°-60°	4516.7	25.4
60°-70°	4204.8	23.6
70°-80°	1613.8	9.1
80°-90°	100.2	0.6
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°	17792.9	100.0
0°-180°	17792.9	100.0

Coefficient of Utilization



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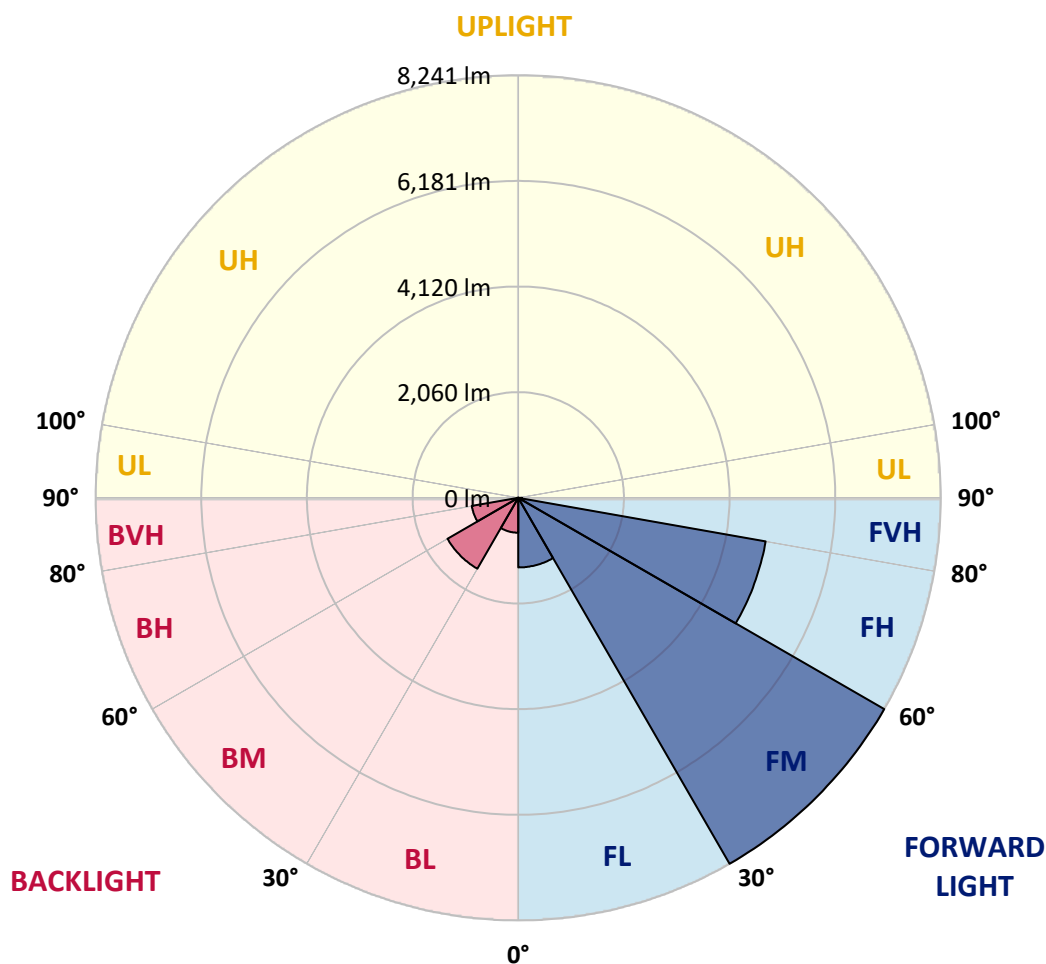
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.4	7.6			
FM	(30°-60°)	8241.0	46.3			
FH	(60°-80°)	4898.7	27.5			G2/5000
FVH	(80°-90°)	72.9	0.4			G1/100
BL	(0°-30°)	680.7	3.8	B2/1000		
BM	(30°-60°)	1595.1	9.0	B2/2500		
BH	(60°-80°)	919.9	5.2	B2/1000		G2/1000
BVH	(80°-90°)	27.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7
2.5°	3115.5	3133.4	3123.2	3118.0	3109.1	3096.3	3086.1	3054.0	3020.7	2998.9	2991.3
5°	3178.3	3196.3	3194.9	3200.0	3206.5	3210.3	3207.7	3171.9	3124.5	3087.3	3065.6
7.5°	3124.5	3145.0	3161.6	3187.2	3232.1	3279.5	3302.6	3294.9	3246.2	3194.9	3168.1
10°	2972.0	2993.8	3033.5	3093.8	3188.6	3291.0	3376.9	3416.5	3385.8	3329.4	3292.3
12.5°	2692.8	2714.5	2792.7	2923.4	3082.2	3260.3	3424.2	3530.6	3538.3	3481.9	3438.4
15°	2378.9	2400.7	2484.0	2647.9	2890.1	3175.8	3449.8	3650.9	3718.9	3670.2	3617.6
17.5°	2184.2	2203.4	2266.2	2398.1	2650.4	3006.6	3440.9	3779.1	3934.1	3895.7	3832.9
20°	2125.2	2141.9	2171.4	2263.6	2473.7	2831.2	3382.0	3899.5	4166.0	4144.2	4073.8
22.5°	2188.1	2203.4	2212.4	2253.4	2385.3	2715.8	3307.7	4022.5	4435.0	4437.5	4351.7
25°	2332.8	2348.2	2337.9	2363.5	2421.2	2680.0	3279.5	4167.2	4773.2	4801.4	4704.0
27.5°	2571.1	2572.3	2548.0	2546.7	2555.7	2733.8	3308.9	4322.2	5199.8	5252.3	5131.9
30°	3048.9	3029.7	2936.2	2834.9	2788.8	2895.2	3390.9	4505.5	5703.2	5796.8	5645.6
32.5°	3785.5	3757.3	3585.7	3343.6	3100.1	3155.3	3538.3	4714.3	6251.5	6420.6	6236.1
35°	4584.8	4577.1	4397.9	4037.9	3612.5	3525.5	3777.8	4988.4	6849.8	7118.8	6899.7
37.5°	5327.8	5324.1	5221.6	4797.5	4280.0	4041.7	4162.1	5347.1	7490.3	7879.7	7621.0
40°	6006.8	6018.4	5915.9	5536.7	5015.3	4704.0	4684.8	5790.3	8202.6	8708.6	8401.1
42.5°	6593.5	6606.3	6502.6	6222.1	5741.6	5436.8	5326.6	6333.5	8898.1	9598.9	9235.0
45°	6991.9	7071.4	7056.0	6831.8	6487.2	6170.8	6097.8	7015.0	9691.2	10543.0	10116.4
47.5°	7104.7	7177.8	7293.0	7323.7	7113.7	6802.4	6889.4	7836.2	10493.0	11488.4	11003.0
50°	6826.7	6894.6	7134.2	7453.2	7599.1	7503.1	7659.4	8716.3	11314.3	12431.3	11872.8
52.5°	6278.4	6347.6	6649.9	7154.7	7750.3	8052.7	8431.9	9583.5	12109.8	13324.2	12696.5
55°	5485.5	5558.5	5946.6	6518.0	7462.1	8279.4	9076.3	10449.6	12838.6	14127.4	13439.5
57.5°	4406.8	4460.6	4864.1	5663.5	6737.0	8053.9	9551.5	11394.9	13525.3	14916.5	14176.1
60°	2872.2	2919.5	3388.3	4280.0	5535.4	7300.7	9646.3	12449.2	14437.4	15942.6	15168.9
62.5°	1910.1	1942.1	2220.0	2874.7	3898.3	5854.4	9091.6	13290.9	15774.9	17728.4	16871.4
65°	1310.5	1342.5	1620.5	2076.5	2518.5	3872.7	7496.7	13179.4	16986.7	19146.6	18133.3
67.5°	935.2	962.1	1197.8	1628.2	1823.0	2249.6	5082.0	11754.9	16812.5	19200.4	18201.1
70°	669.9	685.3	880.1	1268.2	1448.8	1351.5	2826.0	8990.4	14720.5	17729.7	16815.0
72.5°	468.8	474.0	611.1	966.0	1167.1	986.4	1345.1	5994.0	11133.6	13916.0	13035.9
75°	317.8	324.1	411.2	708.4	936.4	753.3	712.3	3214.2	6535.9	7703.0	6904.8
77.5°	194.7	197.3	265.2	484.2	700.7	573.9	458.6	1361.7	2528.8	2482.7	2116.3
80°	110.2	110.2	169.1	301.0	477.9	370.2	321.5	579.0	800.6	703.3	620.0
82.5°	61.5	62.7	123.0	187.1	316.4	219.0	176.8	267.7	345.8	306.2	266.5
85°	25.6	28.2	75.5	88.4	151.2	108.9	71.8	112.7	128.1	114.0	83.2
87.5°	2.6	3.8	23.1	16.6	17.9	21.7	10.2	21.7	17.9	17.9	12.8
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°	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7
2.5°	2966.9	2947.7	2899.0	2842.6	2768.3	2732.4	2683.8	2650.4	2622.3	2624.8	2599.3
5°	3024.6	2975.9	2867.0	2731.2	2562.1	2441.7	2313.5	2225.2	2153.4	2138.0	2103.5
7.5°	3104.0	3027.1	2836.3	2591.6	2305.8	2089.4	1895.9	1771.7	1683.3	1655.1	1627.0
10°	3206.5	3095.0	2796.5	2416.0	2004.8	1729.4	1521.9	1424.5	1364.3	1343.8	1328.4
12.5°	3325.6	3173.2	2744.0	2202.1	1694.8	1429.7	1297.8	1249.1	1229.8	1223.4	1219.5
15°	3475.5	3270.5	2664.6	1948.5	1432.2	1246.5	1190.1	1183.7	1186.2	1183.7	1182.4
17.5°	3653.5	3376.9	2535.2	1687.2	1255.4	1152.9	1132.4	1137.5	1144.0	1142.7	1140.1
20°	3848.3	3481.9	2369.9	1455.3	1135.0	1086.3	1074.8	1079.9	1085.1	1082.5	1081.2
22.5°	4069.9	3594.6	2186.7	1274.7	1054.3	1024.8	1012.0	1013.3	1013.3	1008.2	1005.6
25°	4335.0	3718.9	1994.5	1146.6	992.8	969.8	954.4	949.3	941.6	926.2	923.6
27.5°	4651.4	3850.8	1810.2	1056.9	944.1	922.4	904.5	891.6	872.4	846.8	844.2
30°	5007.6	4010.9	1653.8	1000.5	905.7	884.0	863.5	844.2	816.0	784.0	781.5
32.5°	5426.6	4182.6	1539.9	963.4	871.1	848.1	823.7	800.6	769.9	737.9	739.1
35°	5926.1	4390.2	1473.2	937.8	844.2	813.4	786.6	761.0	737.9	709.7	707.1
37.5°	6468.1	4610.4	1452.7	925.0	826.3	778.9	748.1	730.2	727.6	710.9	709.7
40°	7061.1	4871.8	1468.1	917.3	807.1	745.6	712.3	708.4	714.8	685.3	686.6
42.5°	7688.8	5181.9	1493.7	908.3	780.1	712.3	680.2	680.2	675.1	634.2	634.2
45°	8367.8	5539.3	1519.4	886.5	748.1	679.0	654.6	645.6	623.9	584.1	582.9
47.5°	9051.9	5903.1	1538.5	846.8	709.7	650.8	629.0	608.5	576.5	540.6	539.4
50°	9701.4	6229.7	1518.0	787.8	666.1	623.9	600.9	572.7	538.0	513.7	509.8
52.5°	10281.7	6512.8	1430.9	718.6	620.0	595.7	575.2	545.7	517.5	491.9	489.3
55°	10786.4	6742.1	1277.3	653.3	579.0	571.3	550.8	513.7	475.3	453.5	450.9
57.5°	11270.7	6916.4	1085.1	599.5	541.9	544.5	513.7	480.4	444.5	421.5	418.9
60°	11915.0	7149.6	890.3	549.6	502.1	509.8	476.5	452.2	407.3	377.9	374.0
62.5°	12945.0	7512.1	707.1	488.1	456.0	458.6	444.5	415.0	361.2	326.7	324.1
65°	13762.3	7378.9	557.3	421.5	403.5	407.3	407.3	375.4	317.8	278.0	274.2
67.5°	13670.1	6318.1	444.5	356.1	353.5	356.1	365.1	338.1	281.9	249.8	244.7
70°	12592.7	5025.6	356.1	295.9	307.5	301.0	326.7	308.7	253.7	221.6	217.8
72.5°	10275.3	3620.2	271.6	244.7	235.7	246.0	294.7	278.0	211.4	175.5	171.7
75°	6004.2	1931.8	202.4	193.4	170.4	205.0	261.4	237.0	161.4	129.4	125.6
77.5°	1954.9	673.8	148.6	142.2	126.8	165.2	222.9	199.9	131.9	102.5	98.6
80°	524.0	203.7	101.2	93.5	82.0	123.0	176.8	158.9	94.8	66.6	65.3
82.5°	210.1	85.8	58.9	52.5	44.8	84.6	139.6	128.1	70.4	42.2	42.2
85°	67.9	28.2	21.7	16.6	20.5	52.5	83.2	87.1	49.9	21.7	16.6
87.5°	8.9	3.8	3.8	5.1	3.8	8.9	25.6	24.3	14.0	2.6	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)