

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: P964575

Luminaire Tested: **NAV-SB3C-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23644.7 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

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



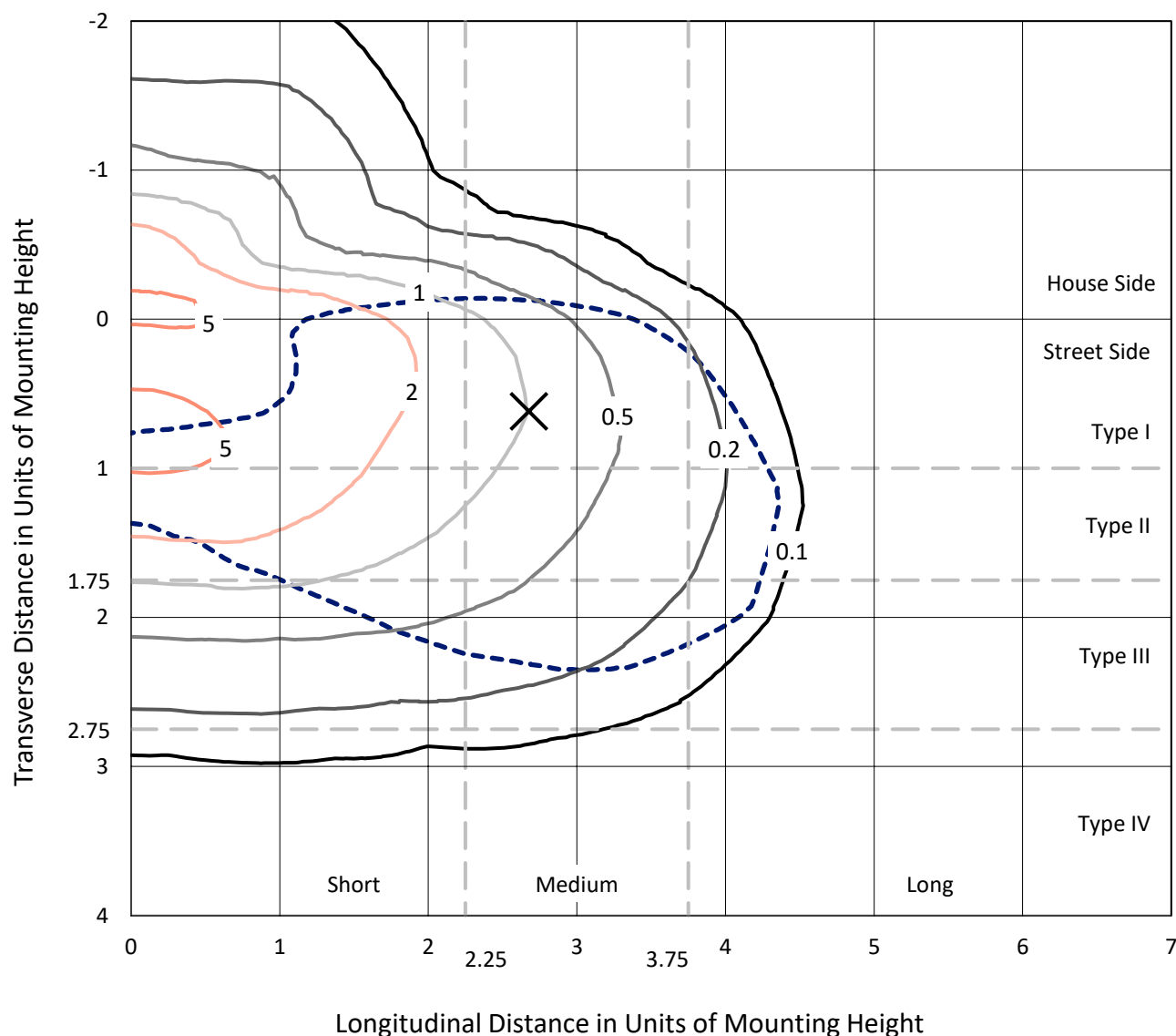
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

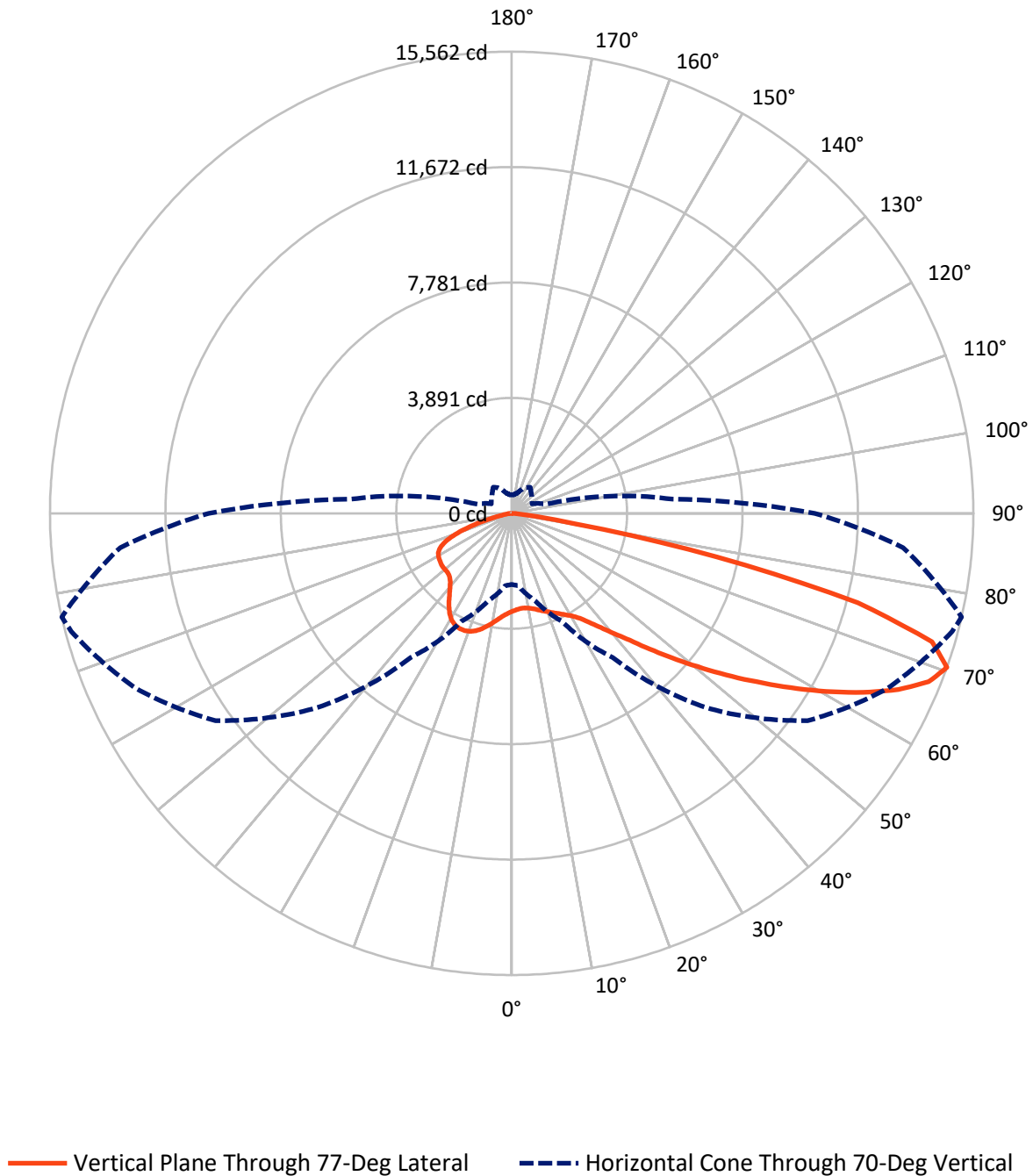


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5177.8	0.0	5177.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	18466.9	0.0	18466.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	23644.7	0.0	23644.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.3
10°-20°	908.0	3.8
20°-30°	1552.8	6.6
30°-40°	2497.0	10.6
40°-50°	3898.5	16.5
50°-60°	5207.4	22.0
60°-70°	5550.3	23.5
70°-80°	3416.7	14.5
80°-90°	299.4	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°	23644.7	100.0
0°-180°	23644.7	100.0

Coefficient of Utilization



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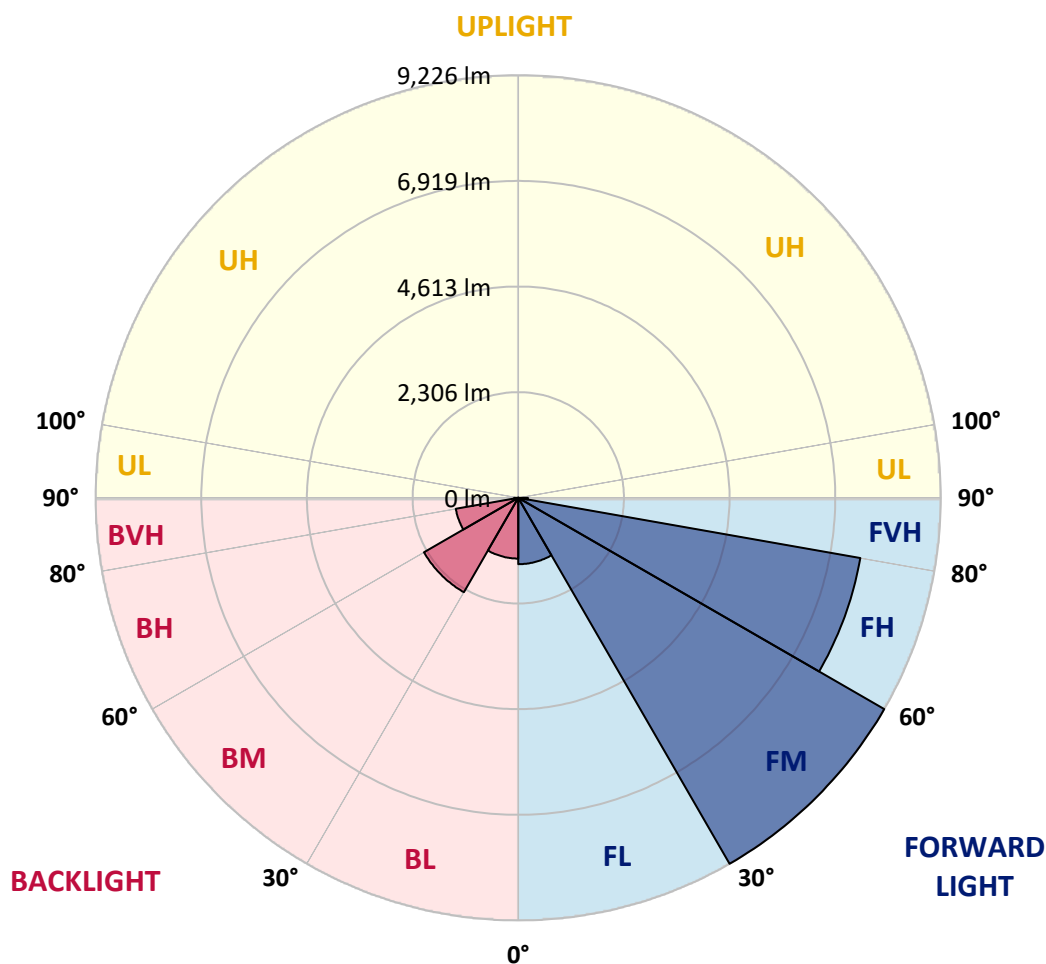
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1448.6	6.1			
FM	(30°-60°)	9225.6	39.0			
FH	(60°-80°)	7583.2	32.1			G4/12000
FVH	(80°-90°)	209.4	0.9			G2/225
BL	(0°-30°)	1326.7	5.6	B3/2500		
BM	(30°-60°)	2377.3	10.1	B2/2500		
BH	(60°-80°)	1383.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	90.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7
2.5°	3040.8	3039.5	3055.2	3060.1	3089.1	3109.7	3148.5	3189.7	3243.0	3249.0	3281.7
5°	2865.1	2865.1	2883.3	2902.7	2940.2	2981.4	3040.8	3112.2	3204.1	3218.7	3299.9
7.5°	2716.1	2725.9	2741.6	2779.2	2822.7	2882.1	2972.9	3074.6	3195.7	3218.7	3349.5
10°	2596.3	2607.2	2626.6	2656.8	2722.2	2804.6	2923.3	3054.0	3216.3	3252.6	3422.2
12.5°	2558.7	2569.7	2580.5	2603.6	2664.1	2760.9	2902.7	3063.7	3266.0	3302.2	3521.5
15°	2645.9	2659.3	2650.8	2644.7	2676.2	2764.6	2912.3	3098.9	3327.8	3379.8	3643.8
17.5°	2846.9	2851.9	2832.4	2775.5	2770.7	2817.9	2958.4	3147.3	3405.3	3462.1	3767.3
20°	3171.5	3163.0	3123.1	3010.4	2946.3	2936.6	3037.1	3219.9	3485.1	3545.7	3900.5
22.5°	3612.3	3602.6	3522.7	3344.7	3201.8	3107.3	3151.0	3314.4	3574.8	3642.5	4030.1
25°	4162.1	4148.8	4031.3	3789.1	3567.5	3333.8	3305.9	3439.1	3685.0	3747.9	4165.7
27.5°	4803.9	4793.0	4665.8	4346.1	4026.4	3643.8	3498.4	3585.7	3800.0	3871.4	4318.3
30°	5494.1	5525.6	5300.4	4956.5	4552.0	4048.2	3757.6	3766.1	3948.9	4013.1	4503.5
32.5°	6305.5	6359.9	6088.7	5652.8	5100.6	4487.9	4084.5	4018.0	4165.7	4219.0	4737.2
35°	7109.5	7171.3	6946.0	6464.1	5828.4	5006.1	4426.1	4307.4	4453.9	4512.0	5047.3
37.5°	7804.7	7887.0	7770.7	7351.7	6606.9	5630.9	4871.7	4647.7	4808.7	4881.4	5463.9
40°	8353.2	8479.1	8470.7	8209.1	7524.9	6389.0	5437.2	5067.9	5249.5	5328.3	5968.8
42.5°	8798.8	8907.8	9002.3	8988.9	8482.8	7250.0	6102.0	5614.0	5752.1	5842.9	6536.7
45°	9106.4	9222.6	9426.1	9645.2	9404.3	8171.5	6863.7	6261.8	6387.8	6524.6	7213.6
47.5°	9381.3	9513.3	9777.3	10124.8	10186.6	9096.8	7698.1	7016.3	7131.3	7273.0	7893.0
50°	9405.5	9519.4	9928.7	10421.5	10742.4	9985.6	8594.2	7862.8	7970.5	8121.9	8620.9
52.5°	8820.6	8999.8	9714.3	10413.1	10997.9	10729.1	9484.2	8743.1	8864.2	9045.8	9374.0
55°	6846.8	7109.5	9085.8	10088.5	10907.1	11209.8	10330.7	9679.2	9834.2	10024.3	10132.1
57.5°	5897.3	6012.4	7212.5	9497.5	10492.9	11334.6	11045.2	10624.9	10874.4	11082.7	10933.8
60°	5300.4	5396.0	6105.6	8578.4	9948.0	11137.1	11597.4	11506.5	11937.7	12185.9	11753.6
62.5°	4661.0	4751.8	5397.2	7162.8	9250.5	10809.0	11946.1	12320.3	13027.4	13298.8	12526.1
65°	4026.4	4103.9	4722.7	6018.5	8364.1	10480.8	12126.6	13023.9	14036.2	14317.2	13168.0
67.5°	3319.3	3383.4	3968.3	5077.5	7286.3	10031.6	12216.2	13577.3	14914.2	15155.1	13485.2
70°	2395.3	2444.9	3049.2	4015.5	5933.7	9259.0	12179.9	13969.6	15369.5	15562.1	13245.5
72.5°	1132.2	1177.0	1886.7	2607.2	4191.1	7754.9	11444.7	13658.4	14906.9	14811.2	11777.8
75°	604.2	643.0	1083.8	1430.2	2213.6	5316.1	9365.5	11765.7	12517.7	12052.7	8704.4
77.5°	409.3	439.6	670.9	858.5	1011.2	2523.7	6019.7	8146.1	7837.4	7069.5	4359.4
80°	324.5	356.0	549.8	581.3	489.2	911.8	2487.3	3771.0	2708.9	2166.4	1240.0
82.5°	249.5	284.5	462.6	421.4	266.4	374.2	724.2	1192.8	693.9	528.0	300.3
85°	152.6	190.1	363.3	268.9	150.2	170.8	245.8	331.8	211.9	176.8	107.7
87.5°	77.5	109.0	184.1	98.1	67.9	40.0	65.4	65.4	55.7	48.5	27.9
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°	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7
2.5°	3310.7	3334.9	3376.1	3414.9	3445.1	3474.2	3503.3	3519.0	3523.8	3543.2	3554.2
5°	3349.5	3394.3	3474.2	3549.4	3596.5	3625.6	3646.2	3658.3	3660.7	3666.7	3676.5
7.5°	3420.9	3492.4	3603.8	3678.9	3714.0	3711.6	3703.1	3672.9	3660.7	3649.8	3652.3
10°	3521.5	3615.9	3752.7	3804.8	3783.1	3725.0	3649.8	3561.5	3520.3	3480.3	3468.2
12.5°	3646.2	3766.1	3900.5	3898.1	3790.3	3641.3	3467.0	3331.4	3245.4	3183.6	3169.1
15°	3797.5	3935.6	4038.5	3956.2	3720.0	3452.4	3197.0	3020.2	2942.7	2874.8	2867.5
17.5°	3953.7	4101.5	4148.8	3938.0	3543.2	3172.7	2883.3	2744.0	2667.8	2631.4	2642.3
20°	4106.4	4252.9	4214.2	3833.9	3274.5	2855.4	2597.6	2521.2	2505.5	2513.9	2510.3
22.5°	4267.4	4398.2	4227.4	3632.9	2931.7	2530.9	2389.2	2391.6	2426.8	2452.2	2458.3
25°	4432.1	4520.6	4192.4	3342.2	2563.6	2292.3	2257.3	2296.0	2365.0	2414.7	2428.0
27.5°	4590.8	4629.5	4116.1	2982.5	2247.5	2121.6	2127.7	2207.5	2311.7	2380.8	2397.7
30°	4769.9	4726.4	3969.5	2578.1	2028.4	1975.1	2025.9	2119.2	2223.3	2285.0	2299.6
32.5°	4972.2	4809.9	3737.0	2204.0	1873.4	1857.6	1941.1	2001.7	2047.7	2065.9	2075.6
35°	5224.1	4927.4	3439.1	1941.1	1734.1	1771.6	1851.6	1821.3	1803.1	1793.4	1803.1
37.5°	5551.0	5086.0	3090.4	1770.4	1621.4	1709.9	1742.6	1648.1	1576.7	1541.6	1550.0
40°	5944.6	5318.5	2754.9	1638.5	1550.0	1656.6	1599.7	1485.8	1395.0	1345.4	1349.0
42.5°	6381.8	5562.0	2472.8	1539.1	1510.0	1613.0	1494.3	1358.7	1212.2	1196.4	1212.2
45°	6840.7	5812.6	2280.2	1462.9	1490.7	1575.4	1433.8	1214.6	1110.5	1174.6	1208.6
47.5°	7299.6	6042.7	2164.0	1405.9	1481.0	1533.1	1380.5	1134.7	1060.8	1154.0	1197.6
50°	7810.7	6248.5	2111.9	1364.8	1470.1	1516.1	1300.5	1114.1	1008.7	1070.5	1116.5
52.5°	8318.1	6408.4	2073.2	1323.6	1454.4	1502.8	1261.8	1089.9	945.8	949.4	974.8
55°	8824.2	6512.5	2030.7	1269.1	1419.2	1473.7	1258.2	1063.2	898.5	881.6	893.7
57.5°	9364.3	6571.9	1978.7	1208.6	1358.7	1399.8	1254.6	1042.6	884.0	856.2	859.8
60°	9914.1	6659.0	1910.9	1134.7	1277.6	1311.5	1246.1	1035.4	875.6	828.3	831.9
62.5°	10406.9	6689.4	1829.7	1064.5	1173.4	1224.3	1227.9	1029.3	852.5	771.4	771.4
65°	10730.3	6558.6	1688.1	984.5	1060.8	1134.7	1192.8	1008.7	811.4	730.2	730.2
67.5°	10717.0	6185.6	1466.5	881.6	951.8	1035.4	1142.0	973.6	761.7	679.4	683.0
70°	10218.0	5449.3	1185.5	761.7	831.9	928.9	1076.6	921.6	702.3	623.6	630.9
72.5°	8763.8	4265.0	861.0	621.3	692.7	818.6	991.8	858.5	641.9	574.0	570.4
75°	6260.7	2699.2	583.6	477.1	538.8	693.9	886.4	784.7	586.1	576.5	543.8
77.5°	3198.1	1289.7	386.3	348.7	375.4	547.3	744.8	701.1	594.6	475.9	423.8
80°	1040.2	475.9	243.4	237.4	249.5	364.5	576.5	575.2	450.5	323.3	285.8
82.5°	331.8	204.7	158.7	152.6	146.6	228.9	402.0	455.3	303.9	204.7	203.5
85°	132.0	122.3	93.3	86.0	61.8	107.7	210.7	302.8	226.4	147.7	151.4
87.5°	48.5	48.5	25.4	18.1	13.3	36.3	56.9	90.8	129.6	76.3	75.0
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)