

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: P969841

Luminaire Tested: **NAV-SB6A-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969841
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-SB6A-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28255.1 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 170.9
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



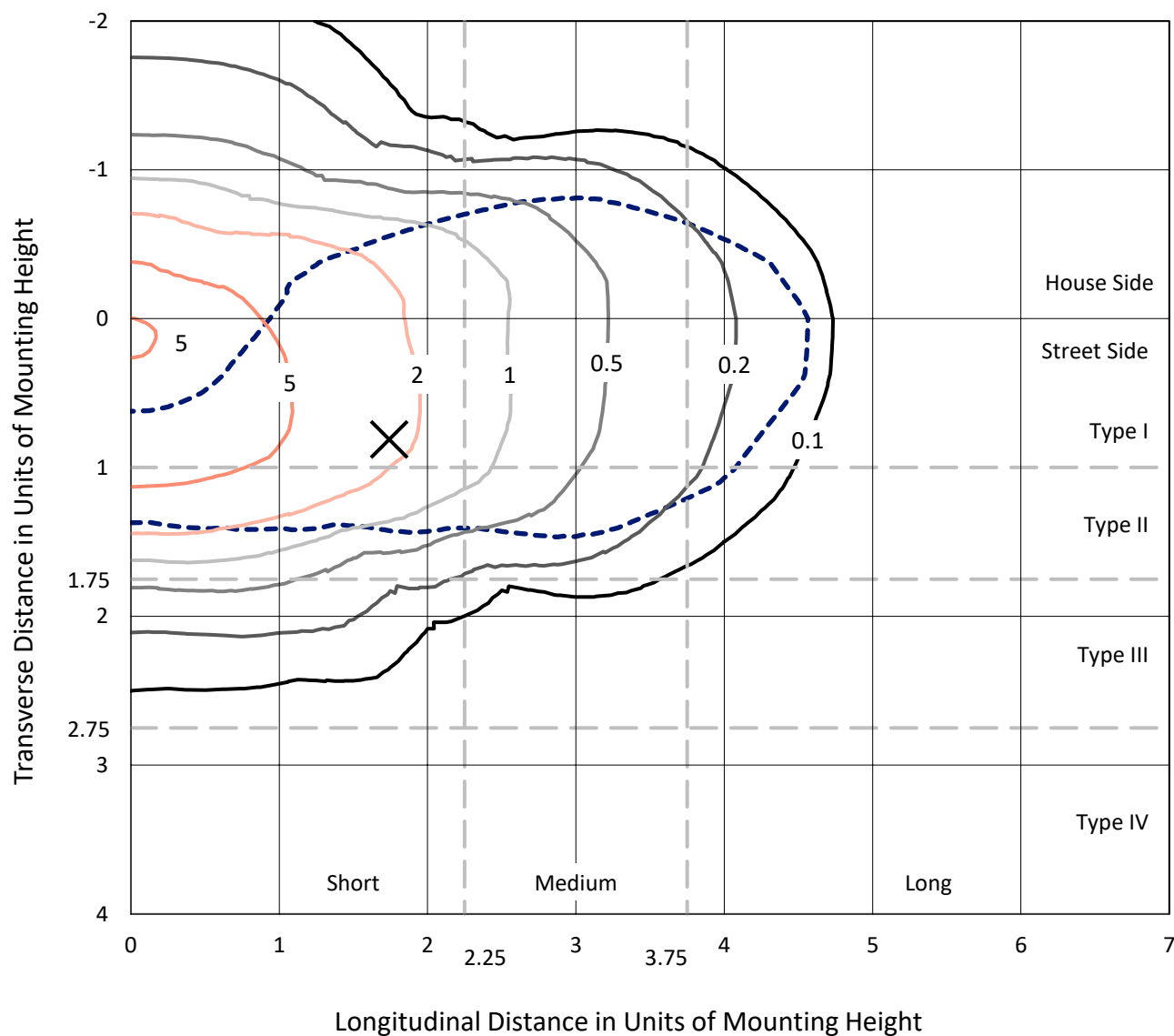
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

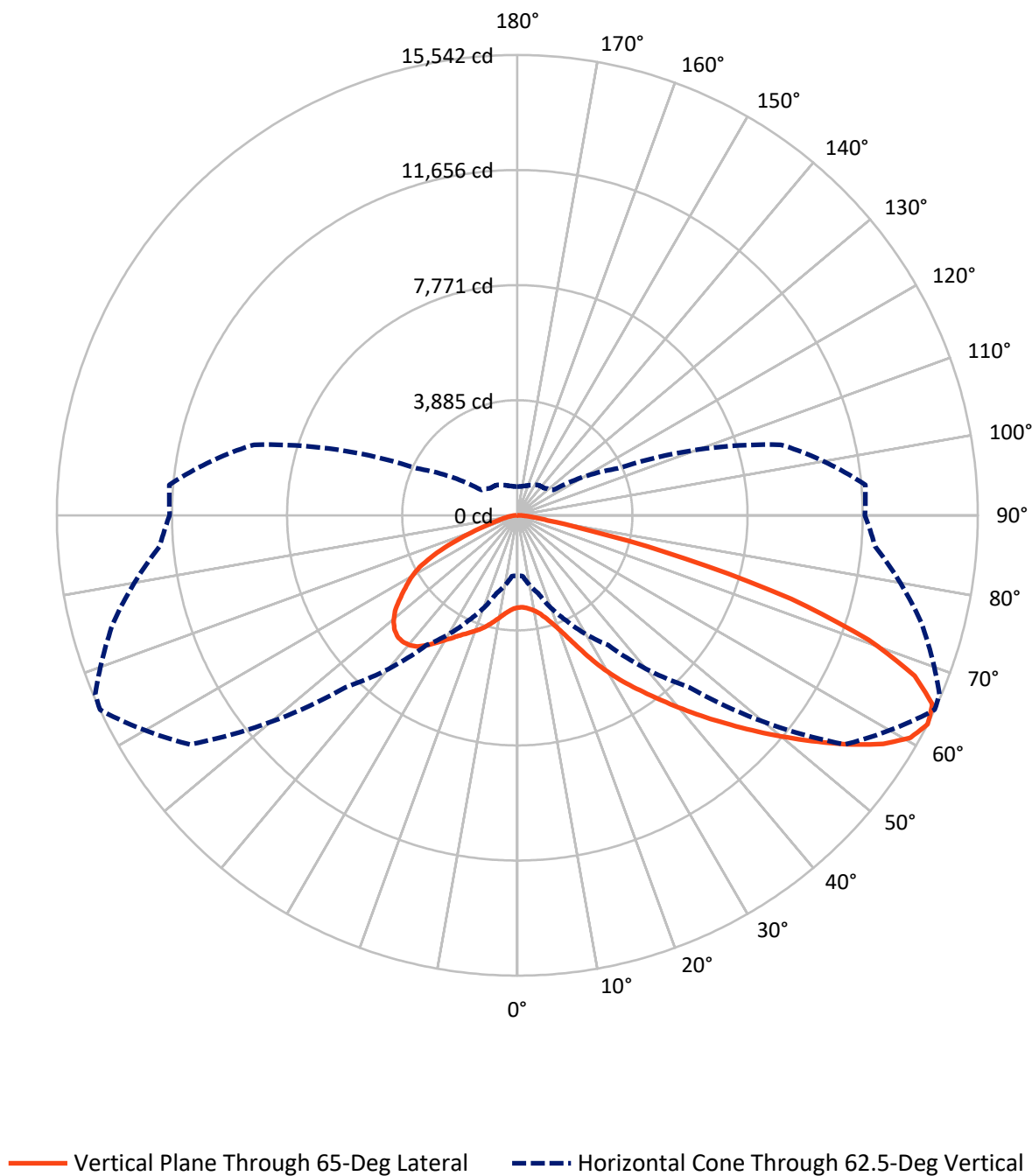


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc

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	8916.1	0.0	8916.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19339.0	0.0	19339.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	28255.1	0.0	28255.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.4	1.1
10°-20°	1052.7	3.7
20°-30°	2134.4	7.6
30°-40°	3693.5	13.1
40°-50°	5589.5	19.8
50°-60°	6553.3	23.2
60°-70°	5494.1	19.4
70°-80°	3033.2	10.7
80°-90°	394.0	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°	28255.1	100.0
0°-180°	28255.1	100.0

Coefficient of Utilization



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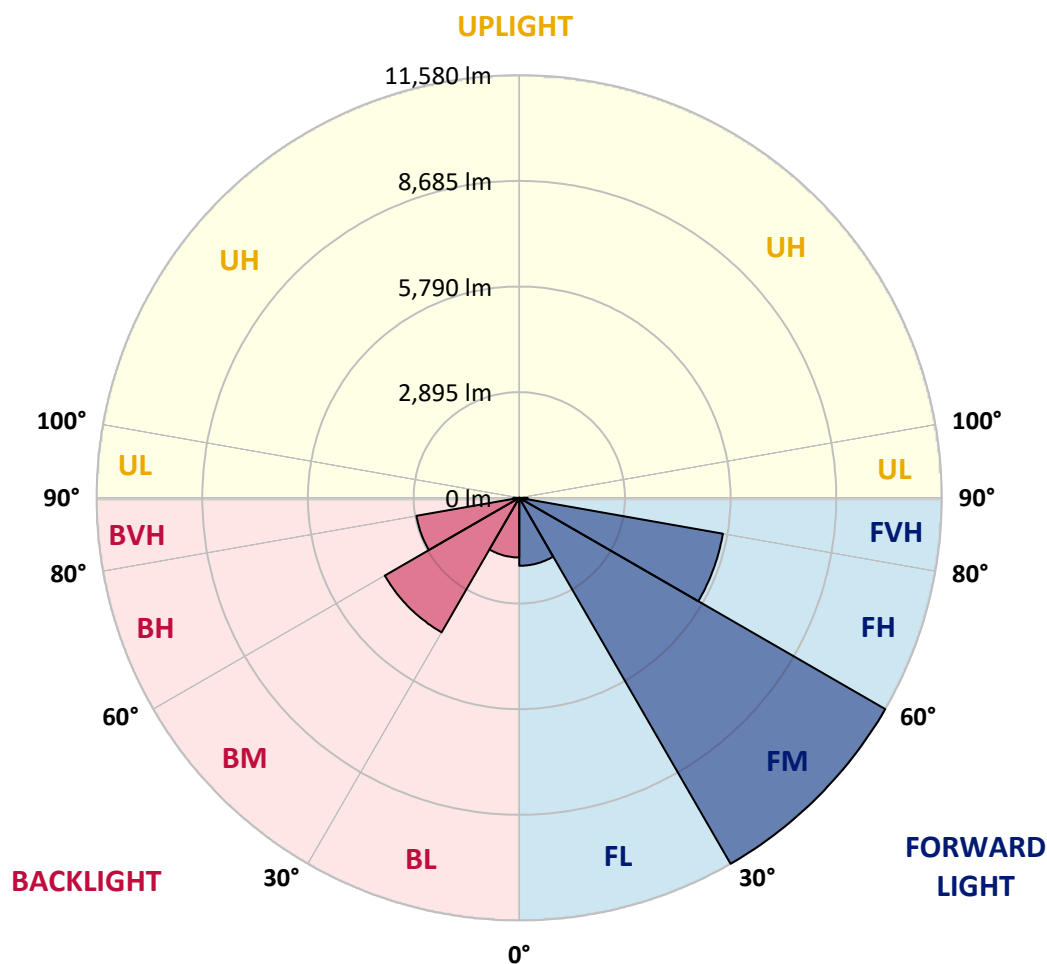
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1862.4	6.6			
FM	(30°-60°)	11579.9	41.0			
FH	(60°-80°)	5667.2	20.1			G3/7500
FVH	(80°-90°)	229.6	0.8			G3/500
BL	(0°-30°)	1635.1	5.8	B3/2500		
BM	(30°-60°)	4256.4	15.1	B3/5000		
BH	(60°-80°)	2860.2	10.1	B4/5000		G4/5000
BVH	(80°-90°)	164.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6
2.5°	3093.0	3084.3	3091.6	3091.6	3094.6	3093.0	3103.3	3106.3	3110.7	3119.5	3119.5
5°	3062.3	3060.9	3074.0	3085.8	3097.4	3107.7	3120.9	3140.0	3143.0	3153.2	3166.3
7.5°	3052.0	3043.2	3063.7	3078.4	3106.3	3131.2	3166.3	3198.6	3211.8	3216.2	3241.2
10°	3131.2	3116.5	3135.6	3144.4	3167.9	3192.8	3233.8	3285.1	3299.8	3317.3	3345.2
12.5°	3266.1	3250.0	3277.7	3291.0	3313.0	3334.9	3362.8	3412.6	3420.0	3452.2	3478.6
15°	3450.8	3431.7	3449.3	3465.4	3502.0	3522.6	3550.4	3598.8	3598.8	3623.7	3642.7
17.5°	3701.4	3676.5	3689.7	3695.5	3719.0	3749.8	3796.7	3839.2	3861.2	3852.5	3826.0
20°	4075.2	4044.4	4044.4	4015.1	4006.3	4031.2	4092.8	4151.5	4174.9	4129.5	4064.9
22.5°	4636.7	4592.7	4567.8	4468.1	4428.5	4431.5	4493.0	4564.8	4583.9	4503.2	4358.2
25°	5350.6	5281.7	5248.0	5101.3	5011.9	4934.2	4982.6	5075.0	5101.3	5001.7	4767.2
27.5°	6064.5	6068.9	6036.6	5860.7	5712.6	5570.5	5545.6	5642.3	5670.1	5557.2	5267.1
30°	7065.7	6961.6	6900.0	6688.9	6477.9	6278.5	6175.9	6215.5	6222.8	6087.9	5750.8
32.5°	7929.1	7902.7	7770.8	7586.1	7314.9	7002.7	6831.1	6768.1	6756.4	6564.3	6164.1
35°	8912.8	8898.1	8758.8	8539.0	8245.7	7811.8	7502.5	7322.2	7307.5	7037.9	6573.1
37.5°	9912.5	9912.5	9776.1	9535.8	9232.3	8689.9	8219.4	7933.5	7886.6	7534.8	6989.5
40°	10709.9	10661.5	10686.4	10585.4	10237.9	9661.9	9015.4	8600.5	8537.4	8115.2	7432.2
42.5°	11162.9	11146.8	11296.3	11409.2	11267.0	10806.7	9892.0	9323.2	9235.2	8754.4	7942.3
45°	11264.0	11246.5	11513.3	11926.7	12126.1	11936.9	10844.8	10084.1	9976.9	9422.8	8489.0
47.5°	11030.9	10995.8	11387.2	12039.5	12678.6	13011.5	11876.8	10909.3	10753.9	10073.7	9050.5
50°	10330.3	10296.5	10888.8	11755.1	12864.9	13741.5	12996.8	11784.4	11546.9	10771.5	9617.9
52.5°	8807.2	8823.3	9751.2	10941.6	12620.0	14195.8	13961.3	12706.5	12420.6	11485.4	10150.0
55°	6860.4	6895.7	8036.1	9346.7	11640.8	14127.0	14619.6	13656.4	13372.0	12156.8	10699.7
57.5°	4912.3	5067.7	6136.3	7433.6	9760.0	13034.9	14763.2	14559.4	14283.9	12889.8	11237.7
60°	3184.0	3211.8	4311.3	5618.8	7432.2	11094.0	14471.5	15244.0	15028.6	13637.4	11687.7
62.5°	2040.6	2059.6	2729.6	3930.2	5349.1	8207.6	13489.3	15541.6	15475.7	14131.4	12120.1
65°	1499.7	1484.9	1833.8	2597.6	3603.2	5061.8	11582.2	15398.0	15528.4	14440.7	12477.8
67.5°	1251.9	1231.3	1402.9	1798.7	2654.7	2874.6	8569.7	14464.2	14942.0	14405.6	12740.2
70°	1140.5	1122.9	1226.9	1335.5	2071.3	1924.7	4320.1	12574.6	13310.4	14005.3	12697.7
72.5°	966.1	935.2	1077.5	1185.9	1611.0	1476.2	1785.4	9658.9	10556.1	12722.6	12099.6
75°	749.1	728.6	850.2	1043.8	1210.8	1152.2	1128.7	5865.2	6844.3	9839.2	10585.4
77.5°	593.7	565.8	677.2	813.5	1089.2	869.3	822.4	2525.8	3496.2	6281.4	7920.3
80°	447.1	422.2	514.6	643.5	837.0	655.3	532.1	1030.5	1317.8	3182.5	3982.8
82.5°	318.1	296.1	359.2	472.0	562.9	587.8	326.9	577.6	649.4	1226.9	889.8
85°	203.8	190.5	240.4	296.1	357.7	378.2	199.4	302.0	331.3	505.7	370.8
87.5°	111.4	90.9	129.0	137.8	165.6	151.0	95.3	110.0	118.7	183.3	156.8
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°	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6	3113.6
2.5°	3125.3	3129.7	3144.4	3148.8	3159.0	3172.3	3181.0	3189.8	3189.8	3198.6	3198.6
5°	3167.9	3178.1	3208.9	3225.0	3251.4	3277.7	3293.9	3313.0	3324.7	3330.5	3333.5
7.5°	3250.0	3266.1	3310.0	3337.9	3383.3	3420.0	3444.9	3471.3	3477.1	3493.3	3487.4
10°	3361.4	3380.3	3430.3	3483.1	3537.3	3582.7	3606.2	3625.2	3632.5	3635.5	3628.1
12.5°	3488.9	3516.7	3581.2	3645.7	3702.9	3742.5	3748.3	3743.9	3723.4	3705.8	3705.8
15°	3645.7	3670.6	3742.5	3812.8	3868.6	3875.8	3839.2	3815.8	3790.9	3786.5	3786.5
17.5°	3833.4	3846.5	3912.5	3981.4	3985.8	3960.9	3906.7	3884.6	3861.2	3845.1	3846.5
20°	4051.8	4047.4	4094.3	4123.6	4092.8	4016.6	3934.5	3897.9	3874.4	3855.3	3856.8
22.5°	4312.7	4279.0	4273.1	4265.8	4183.7	4023.9	3912.5	3865.6	3829.0	3802.5	3811.4
25°	4692.3	4563.4	4473.9	4424.1	4239.4	3984.4	3842.1	3738.1	3669.2	3623.7	3641.3
27.5°	5167.3	4950.3	4724.6	4603.0	4239.4	3903.7	3672.1	3503.6	3390.7	3343.8	3367.2
30°	5620.3	5393.0	5060.3	4818.4	4229.2	3771.8	3398.0	3163.5	3031.5	2984.6	3012.5
32.5°	6007.3	5759.6	5416.5	5054.5	4204.2	3557.8	3057.9	2798.5	2670.8	2615.2	2643.1
35°	6366.5	6102.5	5774.2	5313.9	4138.2	3244.0	2684.1	2486.1	2344.0	2254.6	2283.9
37.5°	6734.4	6420.7	6112.9	5548.4	4019.5	2877.6	2396.8	2228.1	2061.1	1940.8	1973.1
40°	7134.6	6759.4	6474.9	5687.7	3824.6	2528.7	2173.9	2020.1	1842.6	1715.1	1740.0
42.5°	7602.2	7165.4	6878.1	5759.6	3557.8	2280.9	2028.8	1877.8	1710.7	1606.7	1627.2
45°	8090.3	7612.5	7246.0	5758.1	3260.2	2165.1	1981.9	1832.4	1647.7	1539.2	1556.8
47.5°	8602.0	8080.1	7564.1	5664.3	3002.2	2181.3	1955.5	1734.2	1530.4	1424.9	1439.5
50°	9115.0	8591.8	7871.9	5488.4	2892.2	2146.0	1857.3	1596.3	1356.0	1260.6	1266.6
52.5°	9623.7	9135.5	8137.3	5237.8	2780.8	2015.7	1731.2	1417.6	1284.1	1218.2	1218.2
55°	10135.3	9673.5	8426.0	4872.6	2502.3	1863.1	1520.2	1350.1	1226.9	1166.9	1161.0
57.5°	10648.4	10295.1	8700.2	4507.6	2152.0	1675.6	1404.4	1268.0	1169.8	1118.5	1109.7
60°	11181.9	11006.0	8983.1	4172.0	1806.0	1435.1	1319.3	1202.0	1102.4	1045.2	1040.8
62.5°	11731.6	11788.8	9204.5	3739.5	1487.9	1288.5	1243.1	1122.9	1026.1	971.9	970.5
65°	12285.8	12543.8	9349.5	3140.0	1206.4	1149.2	1161.0	1036.4	938.2	891.2	889.8
67.5°	12703.5	13087.6	9308.5	2376.3	989.5	1017.3	1058.4	945.6	853.2	816.5	817.9
70°	12750.5	13023.1	8904.0	1627.2	828.2	888.4	944.0	856.1	760.9	734.4	735.8
72.5°	12126.1	12143.6	7776.7	1062.8	700.7	779.8	823.8	765.2	672.8	646.5	645.0
75°	10488.6	10042.9	5709.8	700.7	586.4	669.9	710.9	669.9	580.5	586.4	565.8
77.5°	7946.7	7112.6	3466.9	498.5	489.6	562.9	618.6	589.3	513.1	576.2	507.2
80°	4094.3	3848.1	1546.5	372.4	387.0	450.1	508.7	470.6	406.1	387.0	353.3
82.5°	938.2	1090.6	609.8	266.8	280.0	324.0	388.5	353.3	291.7	246.3	243.3
85°	328.4	359.2	269.7	167.1	164.2	202.3	263.8	236.1	197.9	158.4	167.1
87.5°	104.0	136.3	101.2	67.4	70.3	90.9	121.7	111.4	92.4	60.1	63.0
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)