

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: P970909

Luminaire Tested: **NAV-SB6C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50086.6 lumens
Efficiency: N/A
Efficacy: 166.5 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): 300.9
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

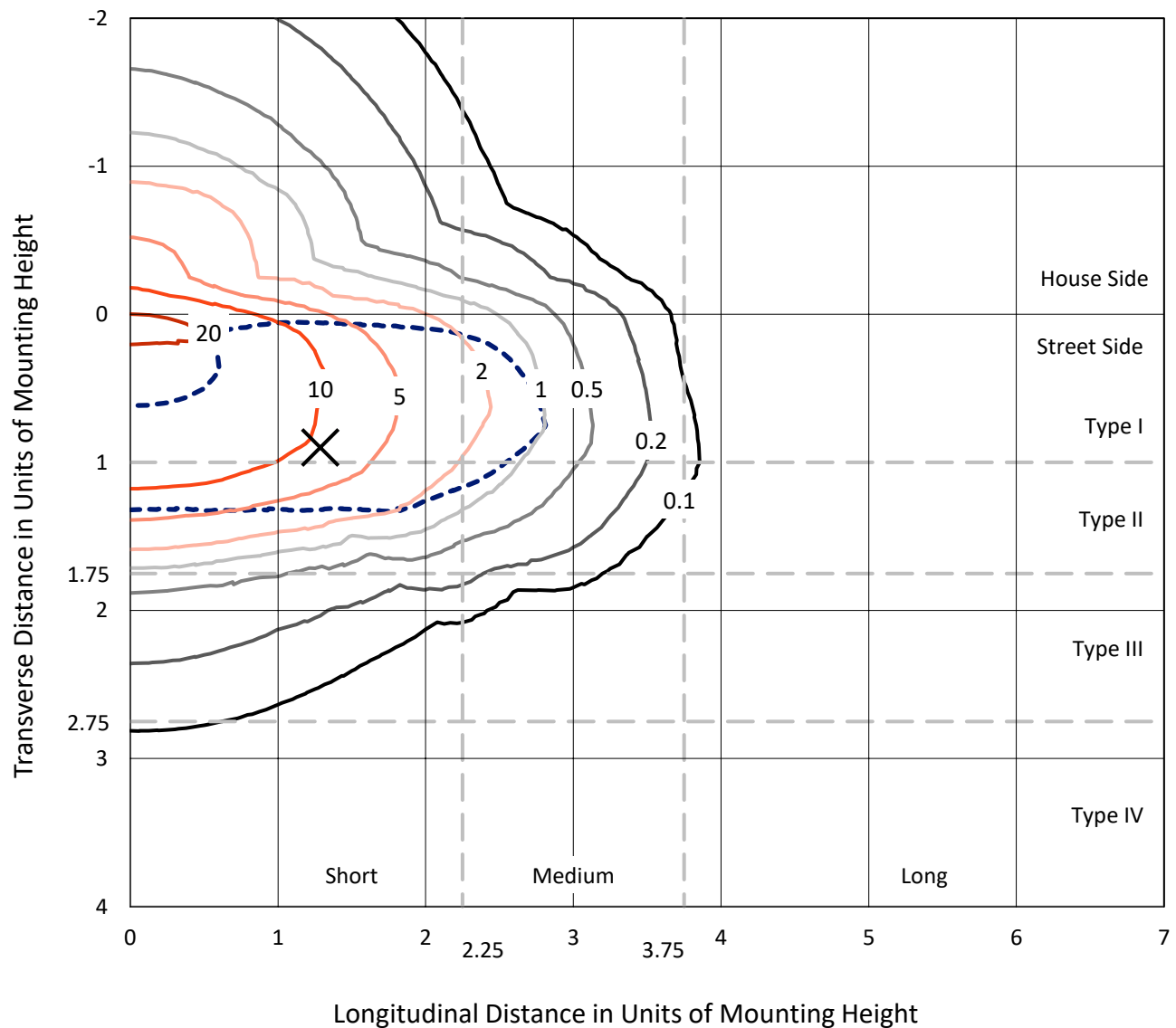


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Iso-Footcandle Lines of Horizontal Illumination

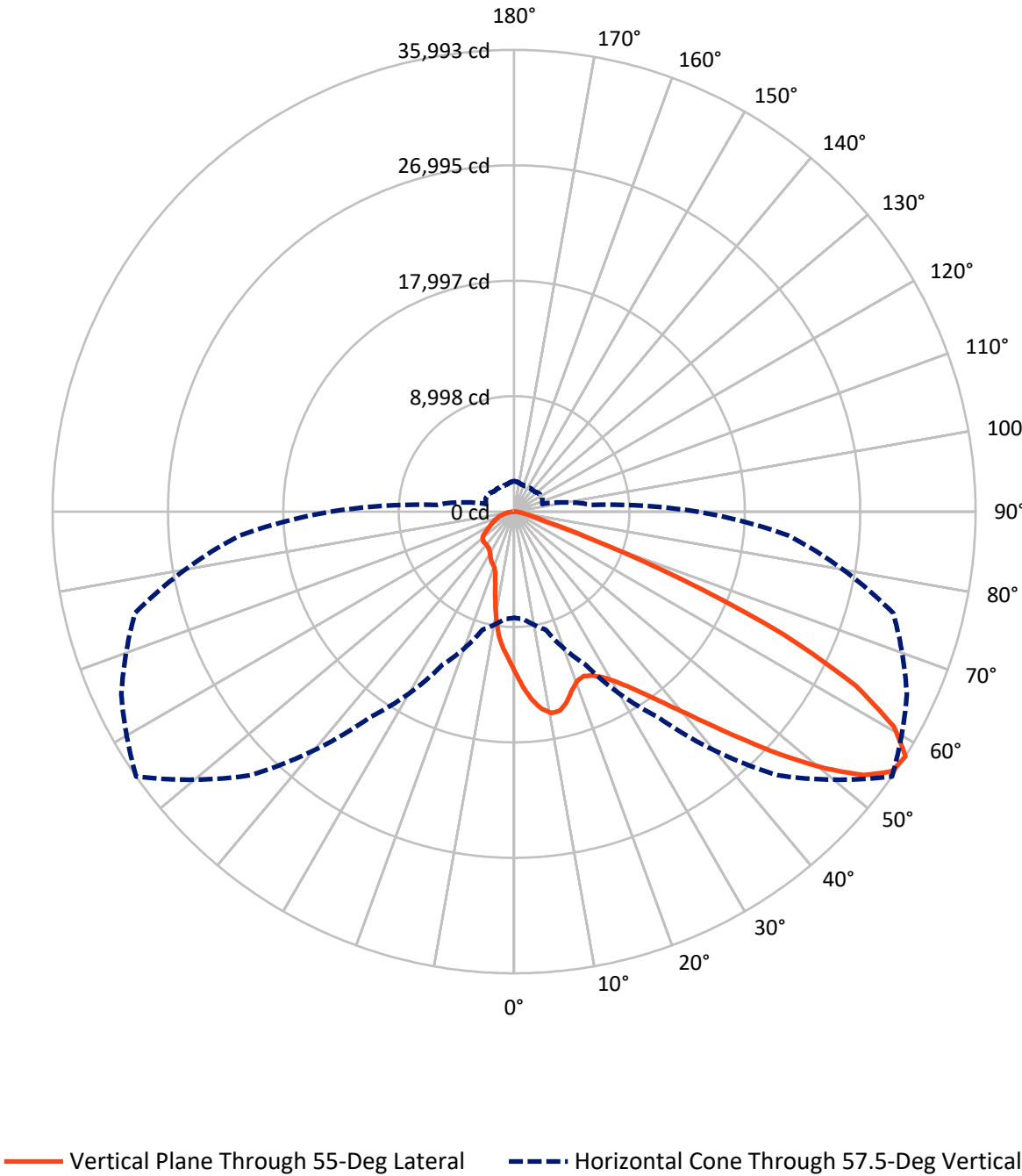
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 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	9062.9	0.0	9062.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41023.7	0.0	41023.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	50086.6	0.0	50086.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1164.6	2.3
10°-20°	2939.4	5.9
20°-30°	4690.5	9.4
30°-40°	7426.2	14.8
40°-50°	11366.6	22.7
50°-60°	12174.7	24.3
60°-70°	7659.1	15.3
70°-80°	2265.0	4.5
80°-90°	400.5	0.8
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°	50086.6	100.0
0°-180°	50086.6	100.0

Coefficient of Utilization



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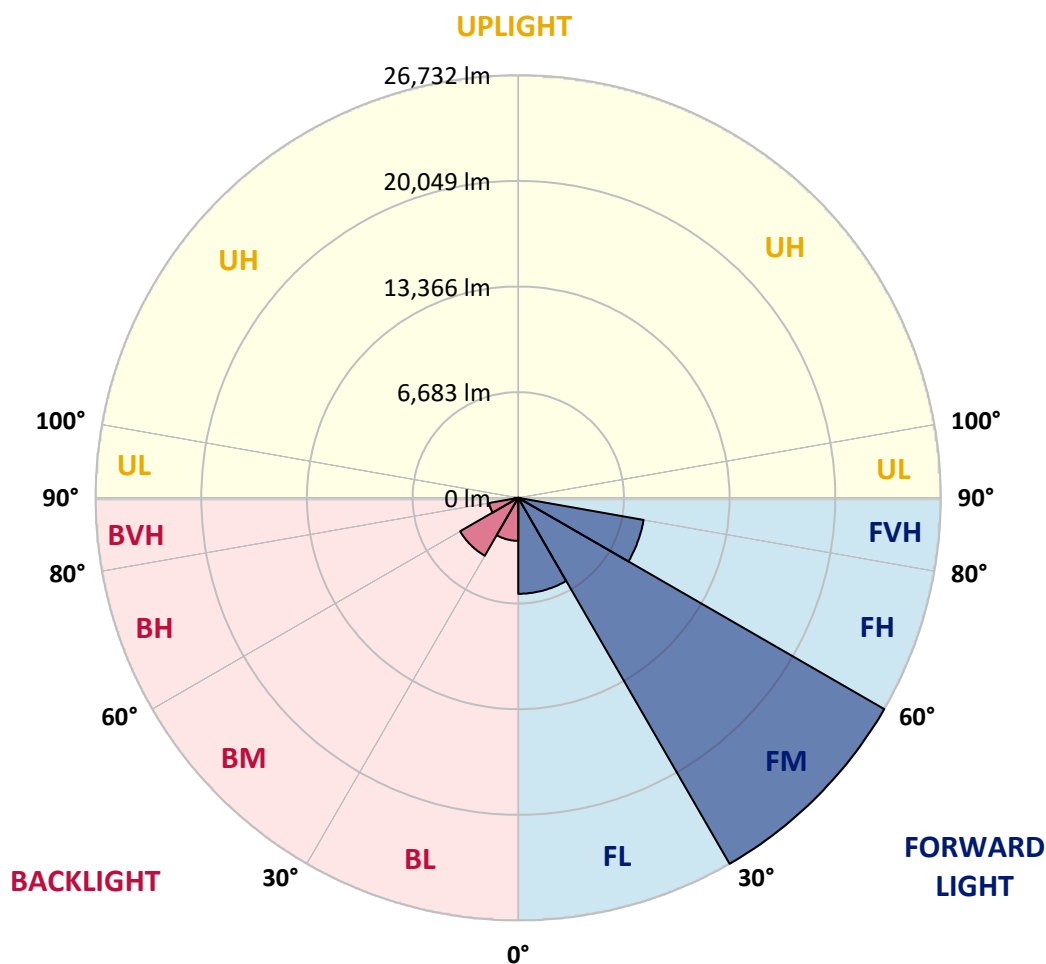
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6070.5	12.1			
FM	(30°-60°)	26731.6	53.4			
FH	(60°-80°)	8052.4	16.1			G4/12000
FVH	(80°-90°)	169.2	0.3			G2/225
BL	(0°-30°)	2724.0	5.4	B4/5000		
BM	(30°-60°)	4235.9	8.5	B3/5000		
BH	(60°-80°)	1871.7	3.7	B3/2500		G3/2500
BVH	(80°-90°)	231.3	0.5			G3/500
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°	75°	85°	90°
0°	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1
2.5°	14398.8	14388.4	14445.4	14251.2	14119.2	13940.5	13704.9	13404.5	13080.8	12739.1	12591.5
5°	15696.0	15605.4	15665.0	15519.9	15375.0	15105.6	14756.1	14266.8	13668.7	12987.7	12625.1
7.5°	15491.4	15429.3	15582.0	15711.5	15820.3	15786.6	15530.3	15017.7	14246.1	13256.9	12731.3
10°	13842.1	13772.2	13987.2	14435.1	15092.7	15665.0	15975.6	15657.2	14836.4	13552.1	12834.9
12.5°	12386.9	12353.3	12495.7	12858.2	13588.3	14686.2	15918.7	16216.4	15450.0	13901.7	12974.8
15°	11765.6	11724.2	11814.8	11998.5	12464.6	13487.4	15400.8	16599.7	16053.3	14305.6	13197.4
17.5°	11628.3	11581.7	11620.5	11716.4	12016.7	12796.1	14618.9	16788.7	16682.5	14756.1	13383.8
20°	11882.1	11843.3	11848.4	11843.3	12053.0	12671.8	14075.2	16716.2	17231.5	15170.4	13565.1
22.5°	12495.7	12431.0	12433.6	12296.3	12410.3	12889.3	13932.7	16522.0	17720.8	15532.8	13702.3
25°	13495.2	13378.6	13402.0	13052.3	13021.3	13376.0	14155.5	16371.8	18207.6	15822.9	13728.2
27.5°	14862.3	14730.3	14660.4	14139.9	13891.3	14067.4	14608.5	16423.6	18668.4	16074.0	13663.5
30°	16571.2	16410.7	16268.3	15530.3	15079.8	15015.0	15312.8	16765.4	19212.2	16338.2	13552.1
32.5°	18665.9	18479.4	18220.5	17241.8	16607.5	16268.3	16224.2	17373.9	19849.1	16674.8	13495.2
35°	21159.3	20915.9	20548.3	19282.1	18479.4	17785.5	17425.6	18251.6	20721.7	17182.3	13559.9
37.5°	23727.8	23453.4	23116.8	21609.9	20623.3	19600.6	18891.2	19442.6	21884.4	17871.0	13730.8
40°	26097.0	25788.9	25475.6	24134.3	23075.4	21842.9	20685.5	20949.6	23305.8	18694.4	14020.8
42.5°	27495.2	27267.4	27148.3	26423.3	25605.1	24354.5	22917.5	22736.1	24903.4	19642.1	14352.2
45°	27433.1	27339.8	27707.5	28007.9	27813.7	27119.8	25532.5	24711.8	26506.1	20462.8	14657.7
47.5°	25967.6	26029.7	26850.5	28538.7	29281.8	29644.3	28510.2	26651.1	27899.2	21076.5	14795.0
50°	21980.1	22031.9	23932.4	27572.9	29659.8	31702.7	31464.5	28543.9	28978.9	21451.9	14763.9
52.5°	18823.8	18857.5	19673.1	24709.2	28411.8	32738.4	34126.2	30327.9	29768.6	21555.4	14590.4
55°	14178.7	14295.3	15209.3	19385.7	25164.9	31917.7	35747.2	32166.2	30268.4	21565.8	14409.1
57.5°	8283.0	8409.9	9538.8	13158.5	19559.2	29056.5	35993.1	33797.4	30607.5	21483.0	14300.4
60°	4057.4	4111.7	4603.7	6915.9	12060.8	23544.0	34014.9	34587.2	30796.5	21439.0	14295.3
62.5°	2734.3	2726.5	2747.2	3412.6	5942.3	15126.3	29892.9	33204.5	30695.6	21270.7	14243.4
65°	2351.0	2322.5	2244.9	2395.0	3078.6	6918.4	23096.1	29077.2	29926.5	20848.6	13888.7
67.5°	2032.6	2035.1	2037.7	1991.2	2198.3	3192.6	14113.9	22904.4	27166.4	18849.8	12521.6
70°	1683.0	1706.3	1716.7	1716.7	1791.8	2094.7	6025.2	15698.6	21428.6	14779.5	10085.1
72.5°	1532.8	1483.7	1488.8	1462.9	1462.9	1595.0	2426.2	8899.3	13500.4	8314.1	6154.6
75°	1250.6	1281.7	1286.9	1268.7	1209.2	1217.0	1439.6	3733.7	5776.6	3448.9	3042.4
77.5°	1079.7	1079.7	1090.1	1077.2	1030.5	911.4	960.6	1447.4	1965.2	1413.7	1519.9
80°	867.4	864.8	908.9	934.7	862.2	673.2	613.7	800.1	872.6	621.5	789.8
82.5°	422.1	447.9	624.0	712.1	655.1	486.8	375.5	497.1	466.1	274.5	354.8
85°	246.0	233.0	279.6	396.2	375.5	269.3	181.2	258.9	243.4	139.8	142.4
87.5°	77.7	72.5	57.0	134.7	108.8	75.1	49.2	75.1	67.3	31.1	31.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1	12550.1
2.5°	12407.6	12102.2	11799.2	11522.1	11353.8	11245.1	11136.3	11014.6	10968.0	10898.1
5°	12283.4	11693.0	11167.4	10714.3	10302.6	9979.0	9652.7	9388.6	9269.5	9349.7
7.5°	12210.9	11356.5	10546.0	9714.8	8914.7	8275.2	7718.6	7327.5	7151.5	7195.5
10°	12146.1	10975.8	9740.8	8428.0	7278.4	6486.1	5916.4	5618.6	5507.3	5530.6
12.5°	12086.6	10548.6	8769.8	7042.8	5820.7	5297.6	5134.4	5137.1	5157.8	5173.3
15°	12076.2	10033.3	7684.9	5831.0	5033.5	4999.8	5175.9	5287.3	5346.8	5365.0
17.5°	12060.8	9417.1	6579.3	5005.0	4841.9	5069.8	5232.8	5305.4	5351.9	5354.6
20°	11998.5	8635.1	5559.1	4611.5	4800.5	4997.3	5098.2	5155.2	5194.0	5207.0
22.5°	11807.0	7765.2	4764.2	4435.4	4634.7	4792.7	4911.8	4976.6	4999.8	5015.3
25°	11462.6	6791.5	4215.3	4267.1	4404.3	4603.7	4699.5	4712.4	4704.6	4727.9
27.5°	11012.1	5748.1	3873.5	4039.2	4215.3	4386.2	4437.9	4430.2	4414.7	4440.6
30°	10468.3	4810.8	3656.0	3782.9	4023.7	4179.0	4225.7	4207.5	4176.5	4205.0
32.5°	9893.5	4044.4	3477.3	3604.2	3865.8	4018.5	4065.2	4047.0	4023.7	4047.0
35°	9357.5	3508.5	3311.7	3485.1	3741.5	3891.6	3951.2	3953.7	3953.7	3982.2
37.5°	8865.5	3195.1	3174.4	3410.1	3656.0	3790.7	3876.1	3881.3	3770.0	3777.7
40°	8409.9	3063.1	3112.3	3360.9	3573.2	3702.6	3707.8	3417.8	3213.3	3208.0
42.5°	8037.0	3037.2	3130.4	3355.6	3513.6	3518.8	3153.7	2928.4	2871.4	2874.1
45°	7687.5	3029.4	3171.9	3355.6	3425.6	3039.7	2793.8	2734.3	2739.4	2760.1
47.5°	7296.5	2998.3	3179.5	3309.0	3171.9	2703.1	2630.7	2604.8	2594.4	2599.6
50°	6869.2	2887.0	3081.3	3215.8	2736.9	2558.2	2467.6	2459.8	2472.7	2480.5
52.5°	6418.8	2705.8	2912.9	3047.5	2537.5	2431.3	2330.3	2348.5	2405.4	2423.5
55°	6123.6	2493.4	2690.2	2710.9	2397.7	2312.2	2226.7	2268.2	2374.3	2408.0
57.5°	6045.9	2268.2	2436.5	2413.2	2219.0	2208.7	2156.8	2193.1	2327.8	2377.0
60°	6022.6	2066.2	2188.0	2169.8	2045.5	2094.7	2081.8	2099.9	2146.5	2162.0
62.5°	5841.4	1905.7	1965.2	1939.3	1890.1	1975.6	2006.6	1967.8	2004.1	2022.2
65°	5380.4	1776.2	1747.7	1729.6	1750.3	1828.0	1890.1	1812.5	1846.1	1897.9
67.5°	4619.3	1600.1	1522.4	1543.2	1607.9	1649.3	1729.6	1641.5	1670.0	1758.1
70°	3736.3	1377.5	1307.6	1367.1	1429.3	1514.7	1527.7	1468.1	1535.4	1633.8
72.5°	2643.6	1152.2	1103.0	1224.7	1245.5	1356.8	1328.3	1299.8	1393.0	1426.7
75°	1833.2	929.6	901.1	994.2	1069.4	1165.1	1144.4	1178.1	1374.9	1390.4
77.5°	1160.0	722.4	704.3	763.8	867.4	973.5	1007.3	1390.4	2348.5	2441.7
80°	673.2	538.5	517.8	564.5	655.1	753.5	971.0	1706.3	1548.4	1530.2
82.5°	375.5	370.2	344.4	357.3	437.6	543.8	1372.3	1201.4	976.1	1007.3
85°	176.1	217.5	186.4	178.7	246.0	636.9	916.6	686.1	455.7	445.4
87.5°	46.6	41.4	41.4	46.6	103.5	548.9	365.1	292.5	173.4	168.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)