

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: P970930

Luminaire Tested: **NAV-SB6C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970930
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-SB6C-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50558.1 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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



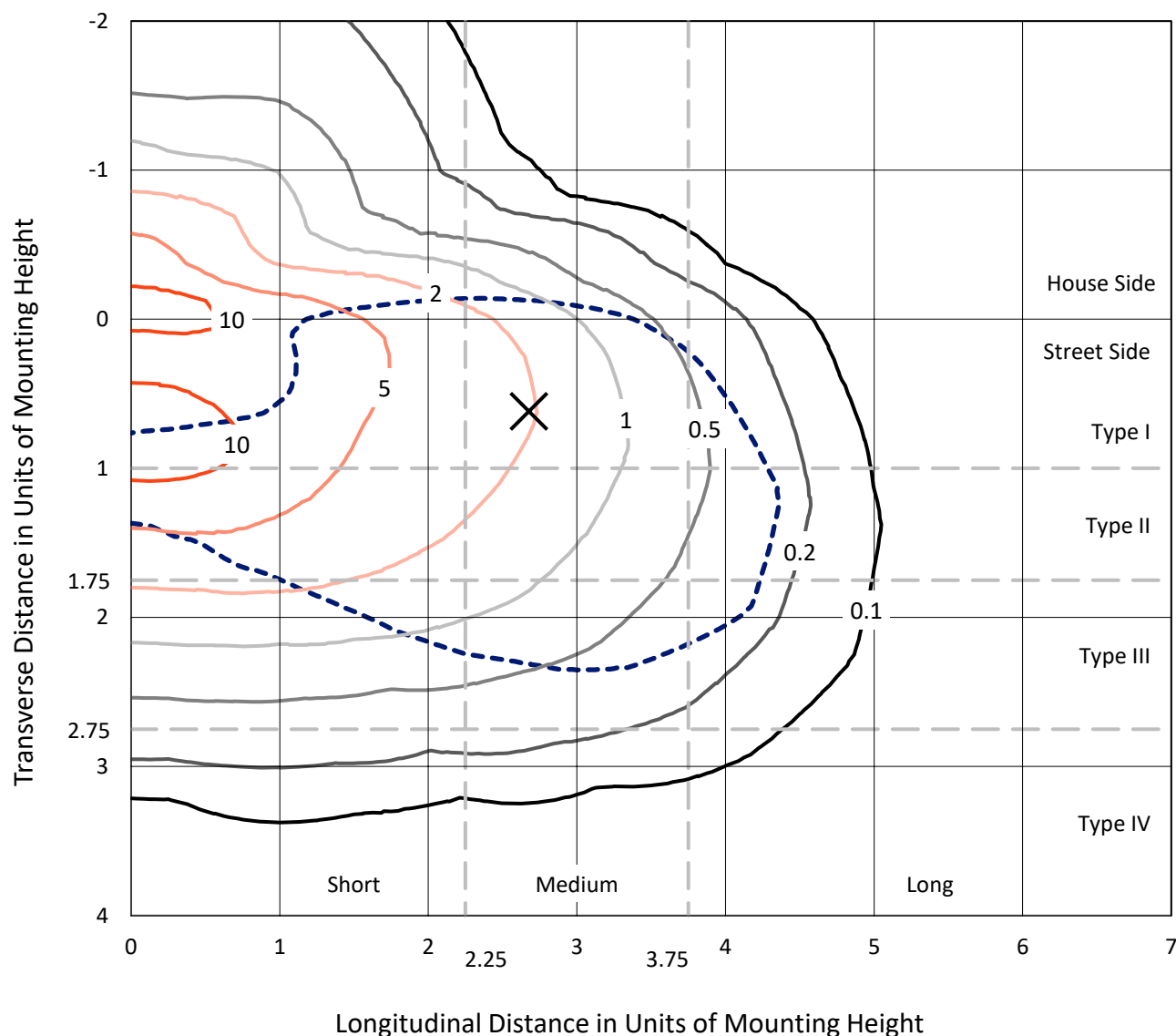
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

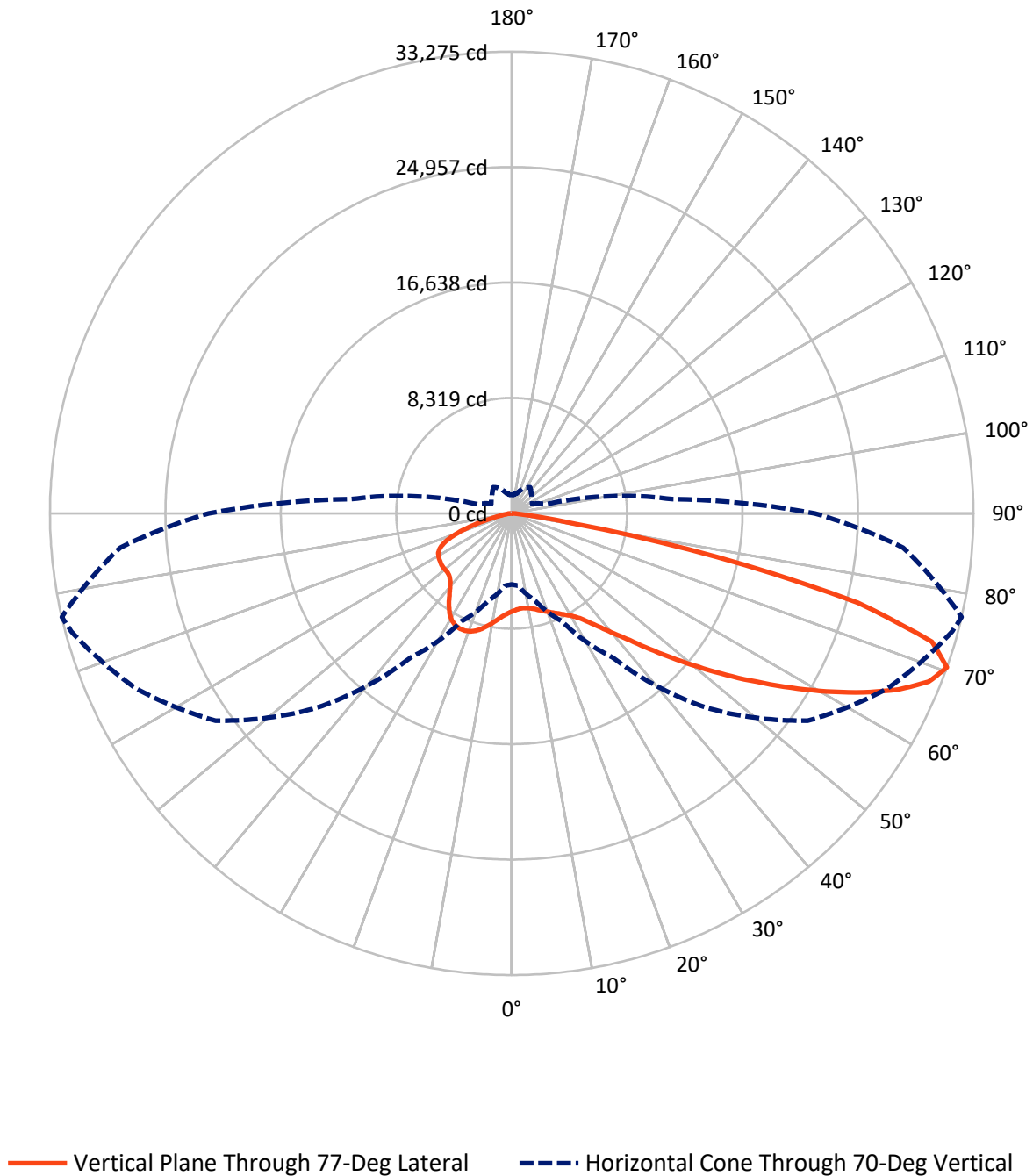


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc

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	11071.4	0.0	11071.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	39486.7	0.0	39486.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	50558.1	0.0	50558.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.7	1.3
10°-20°	1941.5	3.8
20°-30°	3320.2	6.6
30°-40°	5339.2	10.6
40°-50°	8335.9	16.5
50°-60°	11134.8	22.0
60°-70°	11867.9	23.5
70°-80°	7305.8	14.5
80°-90°	640.2	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°	50558.1	100.0
0°-180°	50558.1	100.0

Coefficient of Utilization



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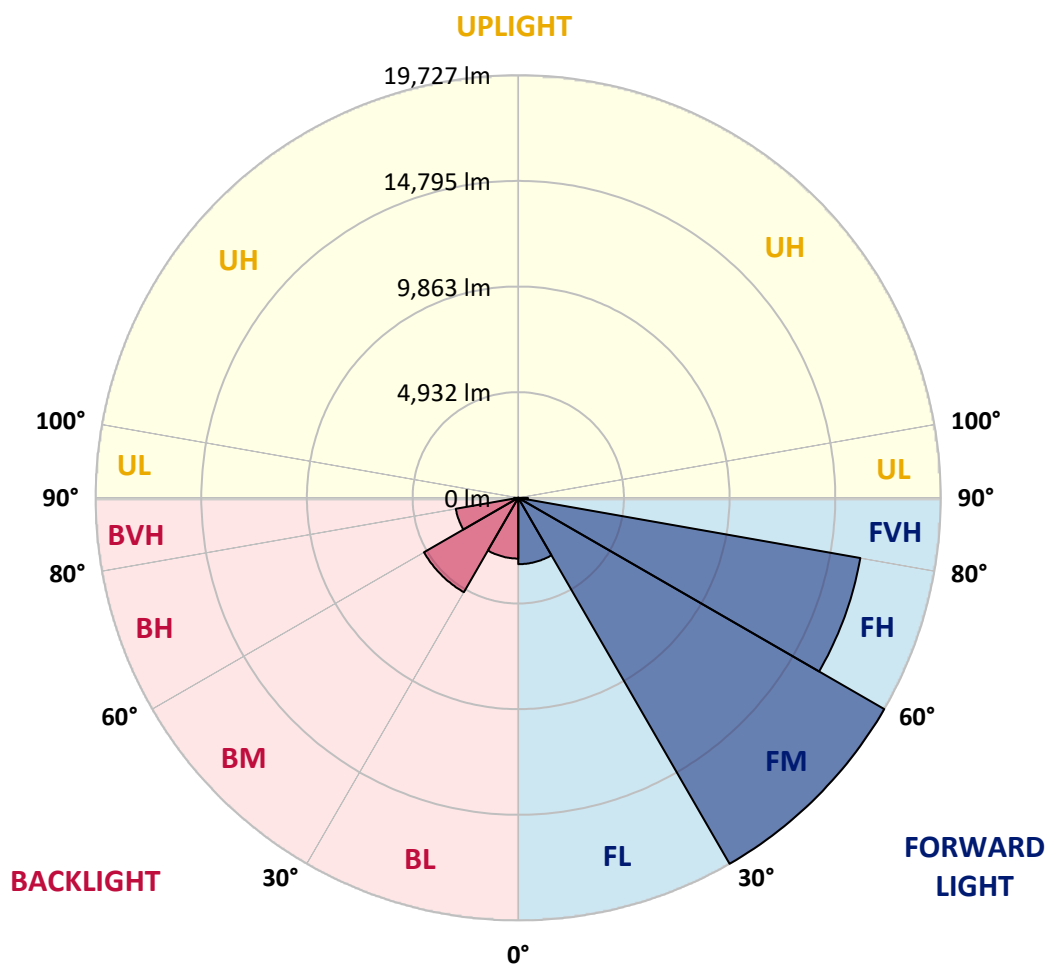
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3097.5	6.1			
FM	(30°-60°)	19726.7	39.0			
FH	(60°-80°)	16214.8	32.1			G5
FVH	(80°-90°)	447.7	0.9			G3/500
BL	(0°-30°)	2836.9	5.6	B4/5000		
BM	(30°-60°)	5083.1	10.1	B4/8500		
BH	(60°-80°)	2958.9	5.9	B4/5000		G4/5000
BVH	(80°-90°)	192.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3
2.5°	6501.8	6499.2	6532.8	6543.2	6605.4	6649.4	6732.2	6820.2	6934.2	6947.1	7017.0
5°	6126.3	6126.3	6165.2	6206.6	6286.8	6374.9	6501.8	6654.6	6851.3	6882.5	7055.9
7.5°	5807.9	5828.6	5862.2	5942.5	6035.7	6162.6	6356.7	6574.2	6833.3	6882.5	7162.1
10°	5551.5	5574.8	5616.3	5681.0	5820.8	5996.9	6250.7	6530.3	6877.2	6954.9	7317.5
12.5°	5471.2	5494.5	5517.9	5567.1	5696.5	5903.7	6206.6	6551.0	6983.4	7061.1	7529.8
15°	5657.7	5686.2	5668.0	5655.1	5722.4	5911.4	6227.3	6626.1	7115.4	7226.8	7791.2
17.5°	6087.5	6097.8	6056.4	5934.7	5924.4	6025.4	6325.7	6729.6	7281.2	7402.9	8055.4
20°	6781.4	6763.4	6677.9	6437.1	6299.9	6279.2	6494.0	6885.0	7452.1	7581.5	8340.2
22.5°	7724.0	7703.3	7532.3	7151.7	6846.2	6644.3	6737.4	7087.0	7643.7	7788.7	8617.3
25°	8899.5	8871.1	8619.8	8102.0	7628.2	7128.4	7068.8	7353.7	7879.3	8014.0	8907.2
27.5°	10271.8	10248.6	9976.6	9293.1	8609.5	7791.2	7480.6	7667.0	8125.3	8278.1	9233.5
30°	11747.7	11815.1	11333.4	10598.1	9733.3	8656.1	8034.7	8052.8	8443.7	8581.0	9629.7
32.5°	13482.6	13599.1	13019.1	12087.0	10906.2	9596.0	8733.8	8591.3	8907.2	9021.2	10129.5
35°	15201.9	15334.0	14852.4	13821.8	12462.5	10704.3	9464.0	9210.2	9523.6	9647.8	10792.3
37.5°	16688.2	16864.2	16615.7	15719.8	14127.4	12040.4	10416.9	9937.8	10282.2	10437.6	11683.1
40°	17861.1	18130.4	18112.4	17553.0	16090.0	13661.3	11626.1	10836.3	11224.7	11393.0	12762.8
42.5°	18814.1	19047.1	19249.0	19220.6	18138.2	15502.3	13047.6	12004.1	12299.3	12493.5	13977.2
45°	19471.7	19720.3	20155.3	20623.9	20108.7	17472.8	14676.3	13389.4	13658.6	13951.3	15424.6
47.5°	20059.5	20341.7	20906.2	21649.3	21781.4	19451.0	16460.4	15002.5	15248.5	15551.5	16877.2
50°	20111.3	20354.7	21229.9	22283.7	22969.9	21351.6	18376.4	16812.5	17043.0	17366.6	18433.4
52.5°	18860.6	19243.9	20771.5	22265.6	23516.3	22941.4	20279.6	18694.9	18953.9	19342.3	20044.0
55°	14640.1	15201.9	19427.7	21571.6	23322.0	23969.4	22089.6	20696.5	21027.9	21434.4	21664.9
57.5°	12610.0	12856.0	15422.0	20308.1	22436.5	24236.1	23617.2	22718.7	23252.1	23697.5	23379.0
60°	11333.4	11538.0	13055.3	18342.8	21271.3	23814.0	24797.9	24603.8	25525.6	26056.4	25132.0
62.5°	9966.3	10160.5	11540.6	15315.9	19779.8	23112.3	25543.7	26343.8	27855.9	28436.0	26784.0
65°	8609.5	8775.2	10098.4	12869.0	17884.5	22410.6	25929.5	27848.2	30012.8	30613.6	28156.3
67.5°	7097.3	7234.6	8485.3	10857.0	15580.0	21450.0	26121.1	29031.5	31890.1	32405.4	28834.7
70°	5121.7	5227.8	6519.9	8586.2	12687.7	19798.0	26043.4	29870.4	32863.8	33275.4	28322.0
72.5°	2421.0	2516.8	4034.2	5574.8	8961.7	16582.0	24471.7	29205.0	31874.6	31670.0	25183.7
75°	1292.1	1374.9	2317.4	3058.0	4733.2	11367.1	20025.8	25157.9	26765.8	25771.6	18612.1
77.5°	875.1	939.9	1434.5	1835.9	2162.1	5396.1	12871.5	17418.3	16758.1	15116.5	9321.6
80°	693.9	761.3	1175.6	1242.9	1046.1	1949.8	5318.5	8063.2	5792.3	4632.3	2651.5
82.5°	533.4	608.4	989.1	901.1	569.7	800.1	1548.4	2550.5	1483.7	1128.9	642.2
85°	326.3	406.5	776.8	574.8	321.0	365.1	525.6	709.5	453.2	378.0	230.4
87.5°	165.7	233.1	393.6	209.7	145.0	85.5	139.8	139.8	119.1	103.5	59.6
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°	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3	7053.3
2.5°	7079.2	7131.0	7219.1	7301.9	7366.7	7428.8	7490.9	7524.6	7535.0	7576.4	7599.7
5°	7162.1	7257.9	7428.8	7589.3	7690.3	7752.5	7796.5	7822.4	7827.5	7840.4	7861.2
7.5°	7314.8	7467.6	7705.8	7866.4	7941.5	7936.3	7918.1	7853.4	7827.5	7804.2	7809.4
10°	7529.8	7731.7	8024.3	8135.6	8089.1	7964.8	7804.2	7615.2	7527.2	7441.7	7415.9
12.5°	7796.5	8052.8	8340.2	8335.0	8104.6	7786.1	7413.2	7123.2	6939.4	6807.3	6776.3
15°	8120.2	8415.4	8635.4	8459.3	7954.4	7382.2	6835.8	6457.8	6292.1	6147.0	6131.5
17.5°	8454.1	8770.0	8871.1	8420.5	7576.4	6784.1	6165.2	5867.4	5704.3	5626.6	5649.9
20°	8780.4	9093.7	9010.9	8197.8	7001.6	6105.6	5554.1	5391.0	5357.3	5375.4	5367.7
22.5°	9124.8	9404.4	9039.4	7768.0	6268.8	5411.7	5108.7	5113.9	5189.0	5243.4	5256.3
25°	9476.9	9666.0	8964.2	7146.5	5481.6	4901.5	4826.5	4909.3	5056.9	5163.1	5191.6
27.5°	9816.1	9898.9	8801.2	6377.5	4805.8	4536.5	4549.5	4720.3	4943.1	5090.7	5126.8
30°	10199.4	10106.1	8487.8	5512.7	4337.1	4223.2	4332.0	4531.3	4754.0	4886.1	4917.1
32.5°	10631.8	10284.7	7990.7	4712.5	4005.7	3972.0	4150.7	4280.2	4378.6	4417.3	4438.1
35°	11170.3	10536.0	7353.7	4150.7	3707.9	3788.2	3959.1	3894.4	3855.5	3834.8	3855.5
37.5°	11869.5	10875.1	6608.0	3785.6	3467.1	3656.2	3726.1	3524.1	3371.3	3296.2	3314.3
40°	12711.0	11372.3	5890.7	3503.3	3314.3	3542.2	3420.5	3177.1	2982.9	2876.8	2884.6
42.5°	13645.7	11892.8	5287.4	3291.1	3228.9	3449.0	3195.2	2905.3	2591.9	2558.3	2591.9
45°	14627.1	12428.7	4875.7	3127.9	3187.4	3368.7	3065.8	2597.0	2374.4	2511.7	2584.1
47.5°	15608.5	12920.7	4627.2	3006.2	3166.7	3278.1	2951.8	2426.2	2268.2	2467.6	2560.9
50°	16701.1	13360.9	4515.7	2918.2	3143.5	3241.9	2780.9	2382.2	2156.9	2288.9	2387.3
52.5°	17786.1	13702.7	4432.9	2830.1	3109.7	3213.4	2698.1	2330.4	2022.2	2030.0	2084.4
55°	18868.4	13925.3	4342.3	2713.6	3034.7	3151.2	2690.3	2273.4	1921.3	1885.1	1910.9
57.5°	20023.3	14052.2	4231.0	2584.1	2905.3	2993.3	2682.5	2229.4	1890.2	1830.6	1838.4
60°	21198.8	14238.7	4086.0	2426.2	2731.7	2804.2	2664.4	2213.9	1872.1	1771.1	1778.9
62.5°	22252.6	14303.5	3912.4	2276.0	2509.1	2617.8	2625.5	2200.9	1822.9	1649.4	1649.4
65°	22944.0	14023.7	3609.5	2105.1	2268.2	2426.2	2550.5	2156.9	1734.8	1561.4	1561.4
67.5°	22915.5	13226.3	3135.7	1885.1	2035.2	2213.9	2441.8	2081.8	1628.7	1452.6	1460.4
70°	21848.7	11652.0	2534.9	1628.7	1778.9	1986.0	2301.9	1970.5	1501.8	1333.5	1349.0
72.5°	18738.9	9119.6	1841.0	1328.3	1481.1	1750.4	2120.6	1835.9	1372.4	1227.3	1219.5
75°	13386.8	5771.6	1248.0	1020.2	1152.2	1483.7	1895.4	1677.9	1253.3	1232.6	1162.7
77.5°	6838.4	2757.7	825.9	745.7	802.7	1170.3	1592.4	1499.3	1271.3	1017.6	906.3
80°	2224.2	1017.6	520.5	507.5	533.4	779.4	1232.6	1229.9	963.2	691.4	611.1
82.5°	709.5	437.6	339.2	326.3	313.3	489.3	859.7	973.5	650.0	437.6	435.0
85°	282.3	261.5	199.4	183.9	132.0	230.4	450.6	647.3	484.2	315.9	323.7
87.5°	103.5	103.5	54.3	38.8	28.5	77.7	121.7	194.2	277.1	163.1	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

(END OF REPORT)