

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: P971057

Luminaire Tested: **NAV-SB6C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41341.3 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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

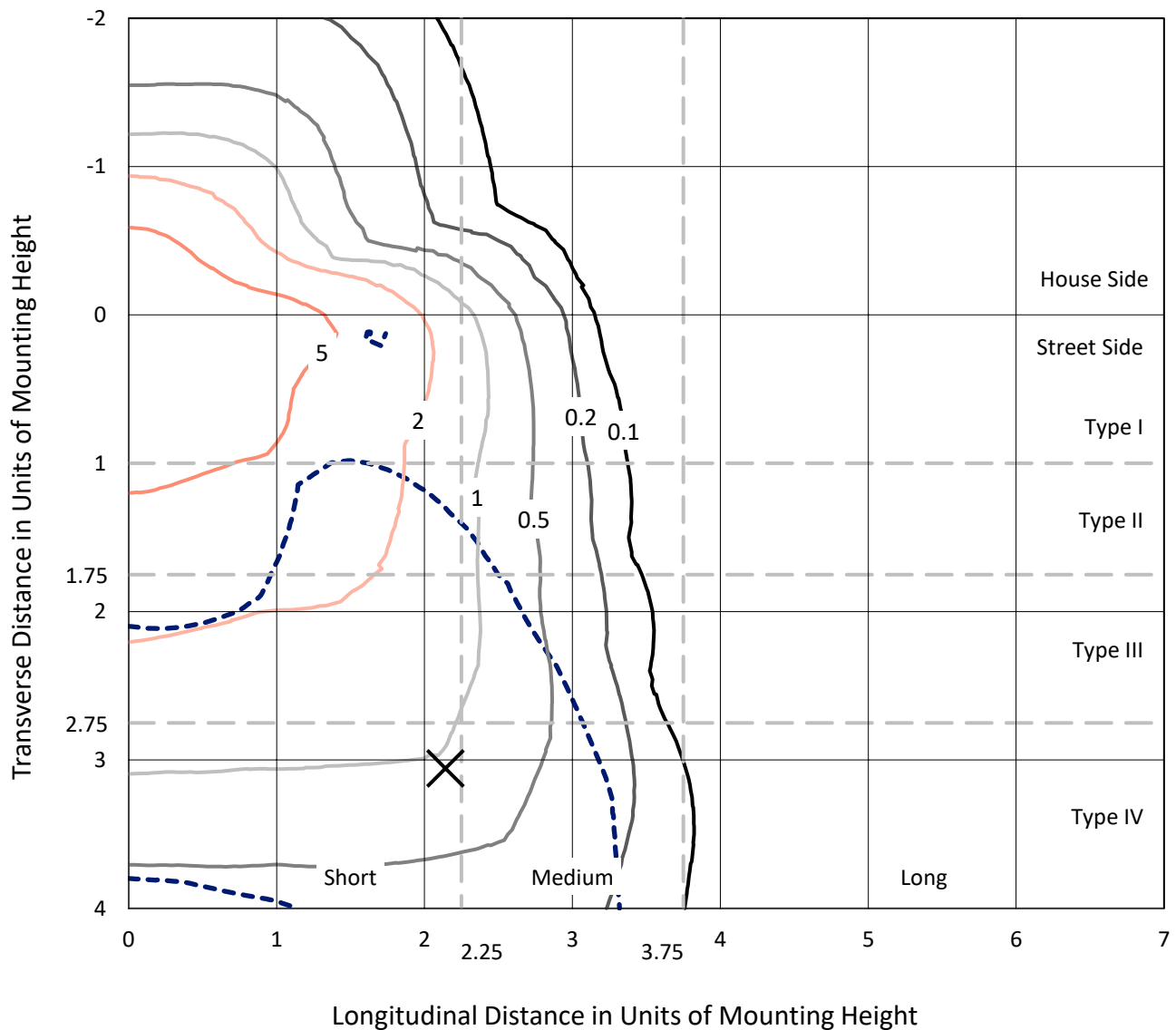


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Iso-Footcandle Lines of Horizontal Illumination

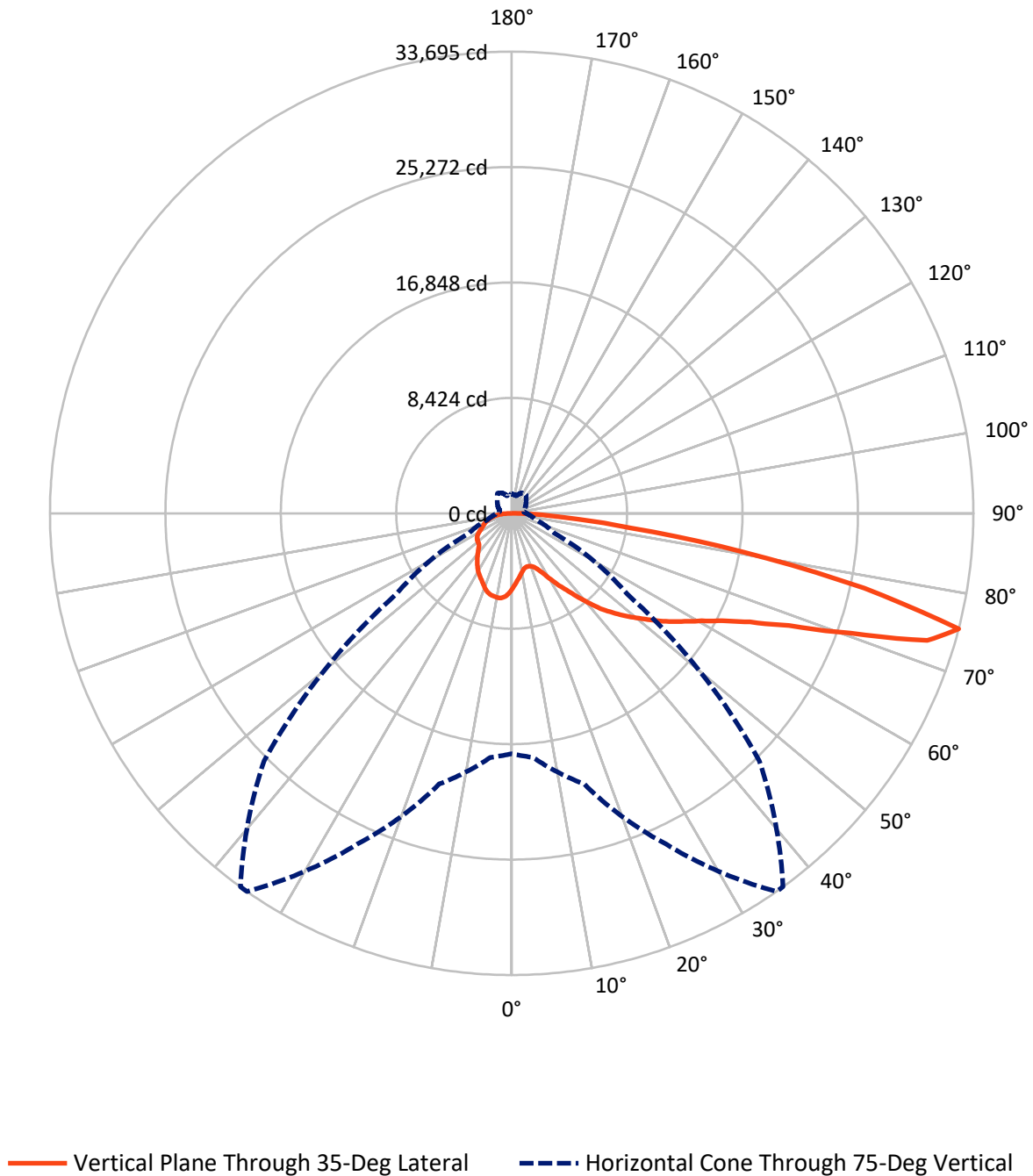
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.2	0.0	9838.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31503.1	0.0	31503.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	41341.3	0.0	41341.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.6	1.3
10°-20°	1504.5	3.6
20°-30°	2526.4	6.1
30°-40°	3926.4	9.5
40°-50°	5827.9	14.1
50°-60°	8045.8	19.5
60°-70°	9761.3	23.6
70°-80°	8067.0	19.5
80°-90°	1160.3	2.8
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°	41341.3	100.0
0°-180°	41341.3	100.0

Coefficient of Utilization



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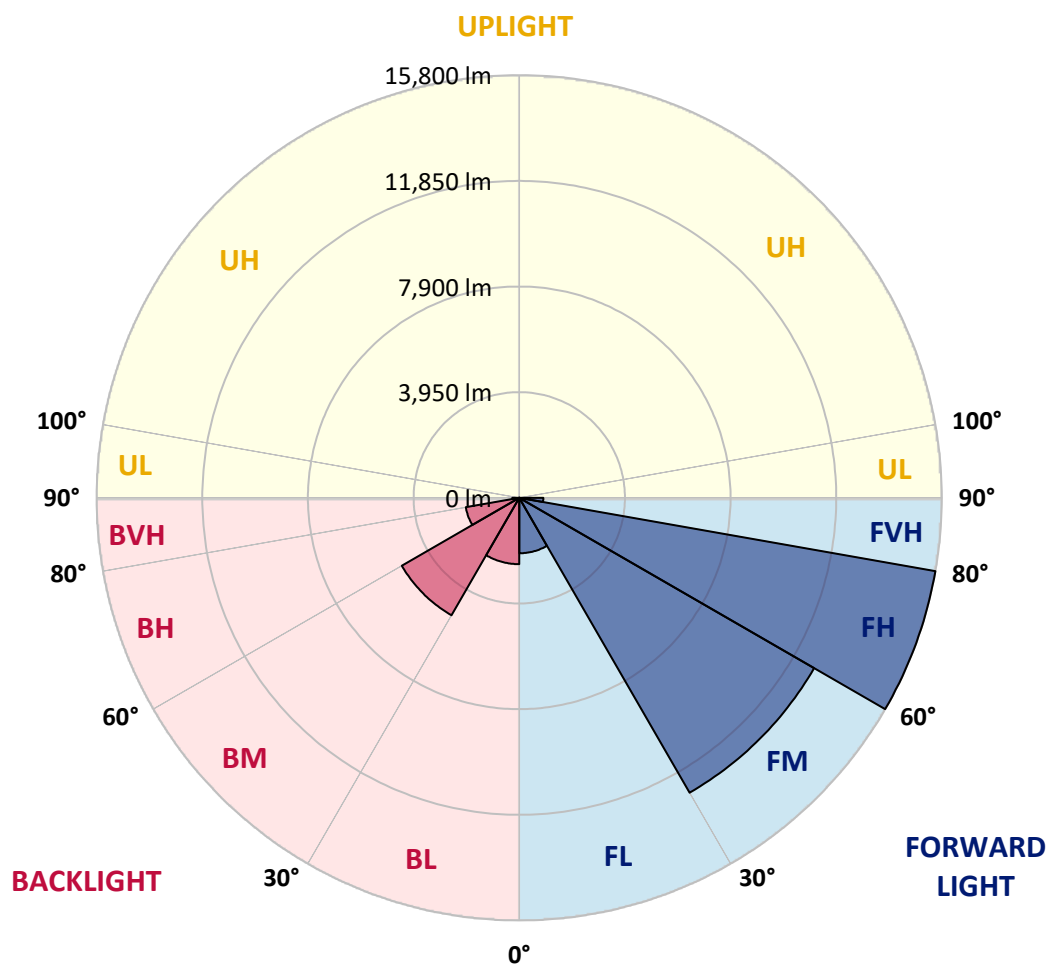
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2073.2	5.0			
FM	(30°-60°)	12730.9	30.8			
FH	(60°-80°)	15800.0	38.2			G5
FVH	(80°-90°)	899.0	2.2			G5
BL	(0°-30°)	2479.4	6.0	B3/2500		
BM	(30°-60°)	5069.2	12.3	B4/8500		
BH	(60°-80°)	2028.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	261.3	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0
2.5°	5079.9	5111.2	5124.6	5117.9	5151.4	5146.9	5193.9	5252.0	5332.5	5410.7	5524.6
5°	4688.8	4722.4	4751.4	4778.2	4843.0	4863.1	4936.9	5048.6	5196.1	5345.9	5533.6
7.5°	4324.5	4353.6	4398.3	4447.5	4556.9	4577.0	4699.9	4874.3	5079.9	5298.9	5558.2
10°	4027.3	4056.3	4103.3	4159.1	4295.5	4320.1	4476.5	4709.0	4977.1	5254.3	5585.0
12.5°	3899.9	3908.8	3935.7	3991.6	4109.9	4125.6	4297.7	4563.6	4876.5	5220.7	5625.2
15°	3893.2	3911.1	3913.3	3942.4	4040.7	4047.4	4206.1	4469.8	4813.9	5214.0	5685.6
17.5°	3960.2	3973.6	3953.5	3971.4	4054.1	4065.3	4190.4	4425.1	4793.8	5243.1	5788.4
20°	4139.1	4150.2	4089.9	4065.3	4125.6	4134.5	4257.4	4454.1	4813.9	5303.3	5929.2
22.5°	4518.9	4525.7	4378.2	4277.6	4282.0	4286.5	4393.8	4572.6	4892.2	5412.9	6108.0
25°	5111.2	5106.8	4872.0	4677.6	4565.9	4541.3	4612.8	4764.8	5024.0	5558.2	6338.2
27.5°	5804.1	5770.4	5535.8	5245.3	5001.7	4965.9	4950.2	5015.1	5211.8	5750.4	6619.8
30°	6586.2	6555.0	6302.4	5922.4	5585.0	5526.9	5379.4	5345.9	5491.1	6011.8	7010.9
32.5°	7444.5	7424.3	7122.6	6662.2	6210.8	6143.7	5895.7	5806.2	5920.2	6407.5	7556.2
35°	8164.0	8146.2	7895.9	7422.1	6870.1	6787.3	6534.8	6434.2	6492.3	6914.8	8269.1
37.5°	8814.4	8805.5	8590.9	8217.7	7647.8	7547.3	7263.4	7229.8	7218.7	7582.9	9134.0
40°	9417.8	9395.5	9172.0	8975.3	8552.9	8461.3	8211.0	8182.0	8097.0	8405.4	10112.9
42.5°	10086.1	10028.0	9703.9	9612.2	9498.3	9422.3	9272.6	9277.1	9089.3	9332.9	11149.8
45°	10631.4	10597.9	10264.9	10211.3	10334.2	10302.9	10432.4	10466.0	10101.7	10305.0	12227.1
47.5°	11216.9	11185.6	10904.1	10866.0	11199.0	11208.0	11666.1	11677.3	11089.6	11315.3	13306.6
50°	11938.8	11894.1	11614.8	11661.6	12034.9	12068.5	12906.5	12830.5	11999.2	12341.1	14377.1
52.5°	12414.8	12441.7	12381.3	12457.3	12966.9	12998.1	14126.8	13932.3	12899.8	13353.5	15427.5
55°	12765.8	12819.4	13007.0	13181.4	13950.2	13981.5	15277.7	14980.5	13646.2	14292.2	16415.3
57.5°	13217.2	13141.2	13492.1	13831.8	14884.4	14967.0	16397.4	15990.6	14307.8	15101.2	17092.5
60°	13865.3	13811.7	14084.3	14587.2	15930.3	16062.2	17581.9	16900.3	14792.8	15742.6	17224.3
62.5°	15179.4	15045.3	15087.8	15532.5	17248.9	17423.3	18918.3	17693.7	15034.1	15992.9	16518.1
65°	17143.8	16913.6	16699.1	17007.5	19106.1	19278.2	20426.9	18317.2	14944.7	15507.9	14643.0
67.5°	19617.9	19389.9	19126.2	19416.8	21841.6	21977.9	22288.6	18668.0	14240.7	13639.6	11328.7
70°	21658.4	21573.4	21888.6	23084.2	26210.8	26215.3	24675.4	18377.5	12312.0	9670.4	6555.0
72.5°	21388.0	21336.5	22997.0	26693.6	31717.6	31599.1	26935.0	16178.4	8293.7	4362.5	2456.1
75°	17546.2	17879.2	20451.5	26628.8	33695.4	33679.9	25551.5	10285.0	3430.6	1808.0	1269.5
77.5°	9408.9	9936.3	13277.5	19660.3	26304.7	26700.2	17964.0	3598.2	1472.8	1157.6	878.3
80°	3068.5	3528.9	5292.2	10010.0	17092.5	17018.7	7699.2	1412.4	1008.0	820.2	607.9
82.5°	1303.0	1356.6	2364.5	4726.8	8771.9	8635.6	2451.7	811.3	708.5	561.0	375.5
85°	509.5	569.9	1043.7	2185.7	3799.4	3716.6	885.0	402.3	453.7	366.5	223.4
87.5°	167.6	203.4	373.2	748.7	1182.2	1139.8	216.8	138.6	196.7	167.6	80.5
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°	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0	5509.0
2.5°	5555.9	5591.7	5634.1	5696.7	5750.4	5795.0	5842.0	5871.1	5882.3	5915.8	5913.5
5°	5596.2	5674.4	5779.5	5882.3	5982.8	6043.2	6096.8	6123.7	6148.2	6166.1	6170.5
7.5°	5663.2	5763.8	5929.2	6063.3	6148.2	6197.4	6233.1	6224.2	6233.1	6237.6	6244.3
10°	5721.3	5862.1	6058.8	6186.2	6251.0	6253.2	6244.3	6213.0	6197.4	6199.6	6204.0
12.5°	5790.6	5947.0	6159.3	6266.6	6284.5	6235.4	6197.4	6143.7	6123.7	6114.6	6110.2
15°	5884.4	6063.3	6268.9	6309.1	6264.4	6201.9	6137.0	6049.9	6005.2	5969.4	5980.6
17.5°	5998.4	6195.1	6353.8	6324.8	6228.6	6125.8	6020.8	5888.9	5797.3	5759.3	5761.5
20°	6157.2	6333.7	6418.7	6291.2	6146.0	5989.5	5810.7	5649.8	5564.9	5526.9	5522.4
22.5°	6349.4	6519.2	6481.2	6233.1	6027.5	5777.2	5553.8	5435.3	5392.8	5366.0	5370.5
25°	6579.5	6724.8	6525.9	6148.2	5833.1	5495.6	5323.5	5285.5	5265.4	5245.3	5245.3
27.5°	6879.0	6957.2	6559.4	6023.0	5529.2	5196.1	5133.5	5140.3	5133.5	5100.0	5106.8
30°	7274.5	7258.9	6590.7	5819.6	5180.5	4925.7	4930.1	4959.3	4963.7	4941.3	4952.5
32.5°	7795.3	7636.7	6606.3	5555.9	4847.5	4688.8	4693.3	4724.5	4746.9	4709.0	4726.8
35°	8425.5	8076.9	6581.7	5225.1	4590.5	4463.1	4429.5	4438.5	4445.2	4409.4	4434.0
37.5°	9160.8	8570.8	6472.3	4858.7	4378.2	4241.9	4170.3	4109.9	4074.2	4040.7	4063.0
40°	9967.6	9109.4	6271.2	4501.1	4141.3	4007.1	3899.9	3785.9	3665.2	3620.5	3640.6
42.5°	10812.4	9663.7	6027.5	4159.1	3868.6	3759.1	3645.1	3479.8	3298.7	3207.1	3218.3
45°	11688.5	10231.3	5788.4	3821.7	3589.2	3542.3	3410.5	3211.5	3014.8	2898.7	2889.7
47.5°	12546.7	10767.7	5437.5	3481.9	3327.8	3379.1	3276.3	3093.1	2874.1	2690.8	2670.7
50°	13366.9	11270.6	4863.1	3137.8	3115.5	3330.0	3231.6	2967.9	2717.6	2483.0	2462.9
52.5°	14180.4	11677.3	4127.9	2824.9	3001.5	3316.6	3173.5	2883.0	2576.8	2331.0	2304.2
55°	14871.0	11887.4	3419.4	2556.8	2836.1	3202.6	3104.3	2782.5	2377.9	2116.4	2094.1
57.5°	15264.3	11717.6	2829.4	2293.0	2608.1	3014.8	2985.8	2567.9	2141.0	1939.9	1913.1
60°	15094.5	11029.2	2346.6	2062.8	2391.3	2811.5	2780.2	2355.6	1960.0	1770.1	1743.2
62.5°	14158.0	9717.3	1964.5	1861.7	2194.6	2603.6	2574.6	2192.5	1821.4	1638.2	1609.1
65°	12271.8	7904.8	1667.3	1694.0	1995.8	2353.3	2395.8	2056.1	1712.0	1533.1	1504.1
67.5°	9359.7	5725.8	1434.8	1548.8	1801.3	2107.5	2230.4	1957.7	1620.3	1450.5	1423.6
70°	5334.7	3251.8	1238.1	1407.9	1629.2	1879.5	2103.0	1879.5	1521.9	1381.2	1363.2
72.5°	2022.5	1492.9	1070.5	1267.2	1463.9	1687.4	1962.3	1756.6	1407.9	1303.0	1285.0
75°	1079.4	909.6	900.7	1101.8	1273.9	1499.6	1785.7	1635.9	1323.1	1376.7	1421.4
77.5°	735.2	643.7	753.2	943.1	1066.0	1291.8	1598.0	1452.6	1146.5	1142.1	1052.7
80°	509.5	455.9	612.3	759.8	824.7	1086.2	1394.6	1247.1	934.2	871.6	833.6
82.5°	306.2	297.2	458.2	567.6	583.3	838.0	1155.5	1045.9	764.3	666.0	670.5
85°	167.6	176.6	292.7	333.0	339.7	585.6	905.2	809.0	587.7	493.9	498.4
87.5°	46.9	60.4	107.3	131.8	163.2	303.9	538.6	480.5	295.0	205.6	205.6
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)