

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: P971059

Luminaire Tested: **NAV-SB6C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41745.2 lumens
Efficiency: N/A
Efficacy: 138.7 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

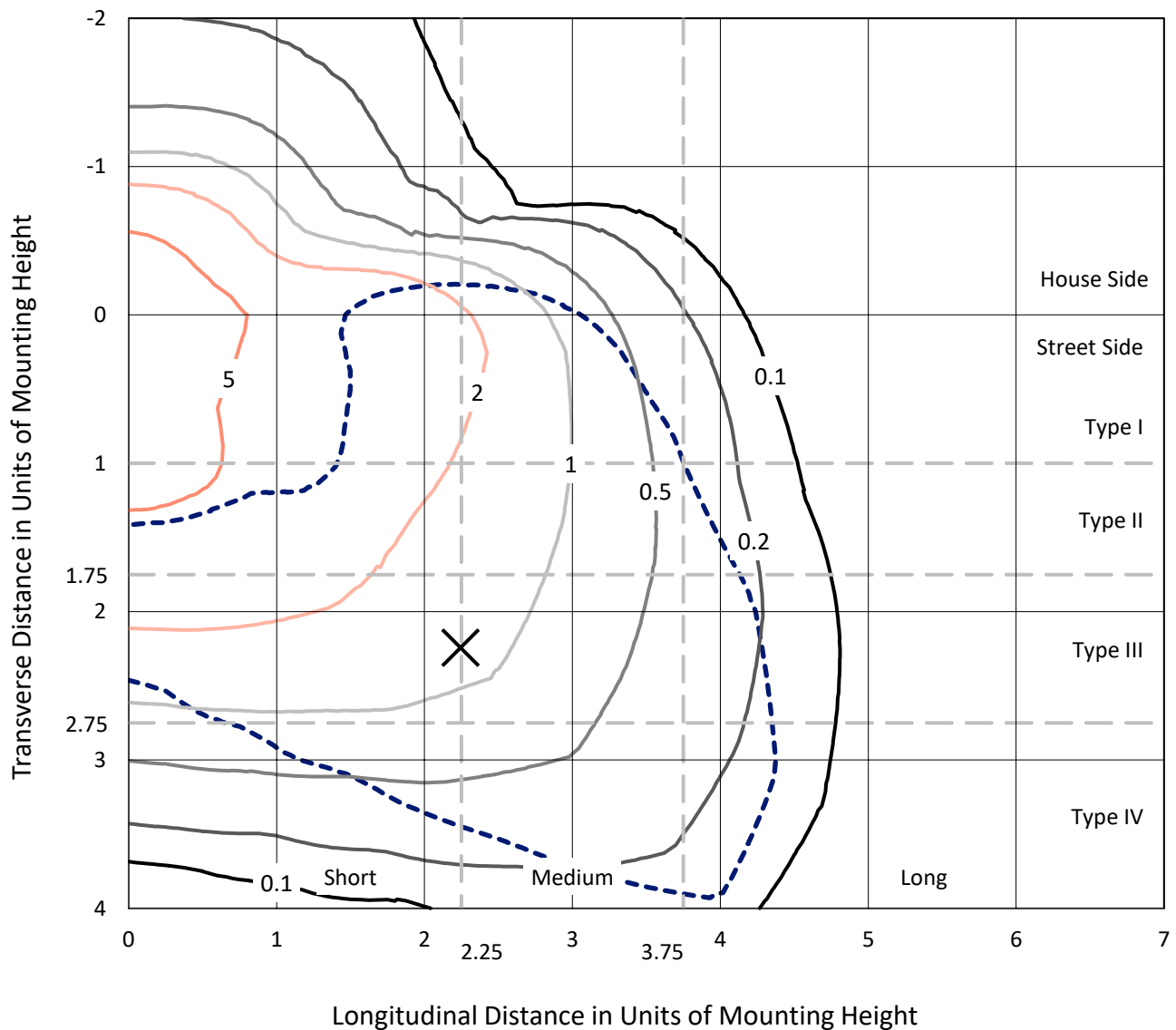


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Iso-Footcandle Lines of Horizontal Illumination

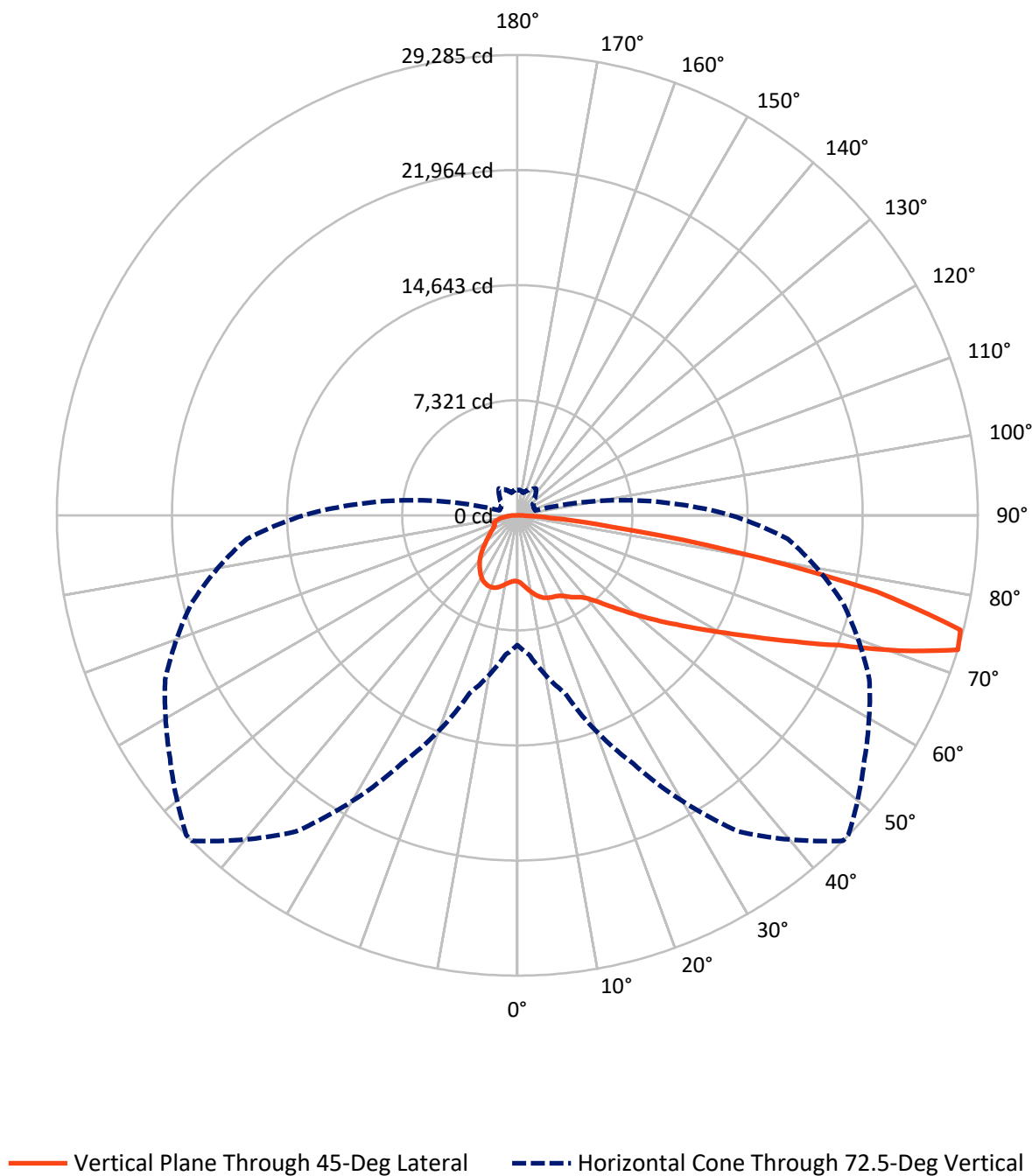
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	9437.1	0.0	9437.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32308.0	0.0	32308.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	41745.2	0.0	41745.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.6	1.0
10°-20°	1429.1	3.4
20°-30°	2486.0	6.0
30°-40°	3563.8	8.5
40°-50°	5018.0	12.0
50°-60°	7686.1	18.4
60°-70°	11134.5	26.7
70°-80°	8891.6	21.3
80°-90°	1107.4	2.7
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°	41745.2	100.0
0°-180°	41745.2	100.0

Coefficient of Utilization



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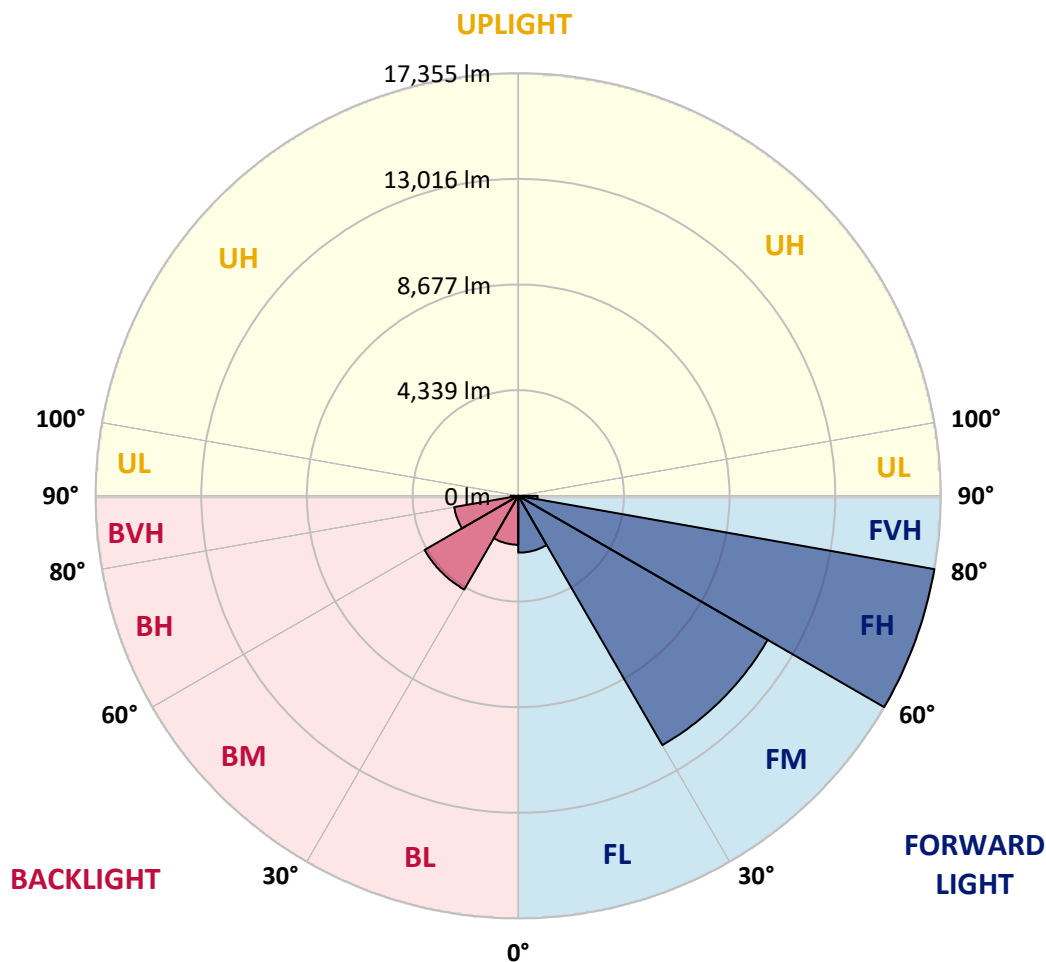
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2334.5	5.6			
FM	(30°-60°)	11824.4	28.3			
FH	(60°-80°)	17354.7	41.6			G5
FVH	(80°-90°)	794.5	1.9			G5
BL	(0°-30°)	2009.2	4.8	B3/2500		
BM	(30°-60°)	4443.6	10.6	B3/5000		
BH	(60°-80°)	2671.4	6.4	B4/5000		G4/5000
BVH	(80°-90°)	312.9	0.7			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°	45°	46°	55°	65°	75°	85°
0°	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3
2.5°	4376.2	4404.8	4378.4	4354.2	4343.2	4314.6	4312.5	4294.9	4283.9	4253.0	4244.2
5°	4681.9	4719.3	4675.3	4627.0	4582.9	4512.6	4503.7	4453.2	4396.0	4330.0	4292.6
7.5°	5027.1	5060.1	5009.6	4937.0	4860.0	4743.5	4741.2	4648.9	4558.7	4446.6	4382.8
10°	5328.5	5372.4	5304.3	5205.3	5108.5	4976.6	4961.2	4855.6	4741.2	4596.1	4499.3
12.5°	5594.6	5625.3	5559.3	5438.3	5326.2	5194.3	5174.5	5058.0	4930.4	4765.4	4642.3
15°	5805.6	5845.2	5757.2	5627.5	5508.8	5379.0	5361.4	5255.9	5128.3	4954.5	4796.3
17.5°	5944.2	5977.2	5887.0	5741.8	5627.5	5519.7	5506.5	5418.6	5306.4	5130.5	4961.2
20°	5997.0	6032.1	5937.6	5790.2	5684.6	5601.1	5594.6	5530.7	5453.7	5293.2	5121.7
22.5°	6049.8	6082.8	5959.6	5805.6	5713.2	5660.5	5658.3	5616.5	5585.7	5453.7	5286.6
25°	6263.1	6271.9	6107.0	5884.8	5752.8	5706.7	5704.4	5702.3	5715.5	5612.1	5464.8
27.5°	6447.8	6445.6	6304.8	6095.9	5891.4	5794.6	5792.4	5814.4	5856.2	5770.4	5649.5
30°	6718.3	6694.1	6526.9	6309.2	6122.3	5972.8	5959.6	5939.8	5972.8	5904.6	5834.2
32.5°	7292.3	7215.3	6944.8	6557.7	6313.6	6199.3	6181.7	6058.6	6071.7	6030.0	5994.7
35°	8114.7	8013.6	7652.9	7028.3	6551.1	6388.4	6379.6	6223.5	6197.0	6159.6	6172.9
37.5°	9093.3	8967.9	8547.9	7710.0	6960.2	6608.3	6595.1	6454.3	6346.6	6307.0	6381.8
40°	10076.3	9917.9	9570.5	8541.3	7562.7	6975.5	6933.7	6720.4	6597.3	6531.3	6689.7
42.5°	11030.6	10898.7	10601.9	9473.8	8306.0	7512.1	7419.8	7054.7	6962.3	6900.8	7186.7
45°	11875.1	11756.3	11538.6	10469.9	9176.8	8242.2	8152.0	7556.1	7527.5	7527.5	7941.0
47.5°	12561.3	12534.8	12304.0	11485.9	10203.8	9073.5	8917.4	8253.2	8330.2	8449.0	9011.9
50°	13322.1	13249.6	13003.3	12486.4	11411.1	10025.7	9898.1	9108.7	9396.8	9722.2	10560.1
52.5°	14021.5	14061.1	13786.1	13528.9	12774.6	11087.8	10863.6	10118.1	10740.4	11279.2	12374.3
55°	14740.5	14742.8	14665.8	14630.6	14203.9	12262.2	12015.9	11332.0	12321.5	12990.0	14489.9
57.5°	15415.7	15420.1	15534.5	15844.6	15862.1	13616.8	13337.5	12823.0	14078.7	14760.3	16671.4
60°	16018.3	16049.0	16361.3	17087.0	17320.1	15169.4	14905.4	14584.4	15895.1	16581.2	18965.1
62.5°	16220.5	16332.8	17027.6	18059.0	18760.5	17073.8	16814.3	16623.0	17803.9	18441.7	20882.6
65°	15877.5	16134.8	17478.4	18861.6	20242.7	19336.7	19079.4	18870.5	19787.5	20387.9	22457.2
67.5°	15035.2	15367.3	17452.1	19703.9	22041.6	22059.1	21819.5	21329.0	21914.0	22144.9	22969.6
70°	12816.4	13313.3	15914.9	20018.4	24106.6	25782.2	25551.3	24289.0	24036.1	22919.0	21526.9
72.5°	8257.6	8926.1	11719.0	17430.0	24566.2	29285.4	29272.3	26961.0	24706.9	21414.8	17265.1
75°	3012.8	3421.8	5445.0	10940.5	20620.9	29107.2	29193.0	26503.5	22554.0	16541.7	10755.8
77.5°	1097.4	1200.7	1776.8	4204.7	12682.2	23354.4	23532.6	21188.3	16053.4	8301.6	4261.8
80°	576.2	633.3	910.4	1631.7	5433.9	13869.7	14149.0	12592.0	7545.1	2500.4	1277.7
82.5°	318.9	345.2	510.1	886.2	2447.6	5931.0	6098.1	4974.3	2654.3	1060.0	527.8
85°	171.5	182.6	239.7	483.8	1196.3	2056.1	2102.4	1486.6	1057.8	622.4	255.1
87.5°	50.5	61.6	79.1	154.0	468.4	461.8	472.8	294.7	417.8	314.5	83.5
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°	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3	4211.3
2.5°	4231.1	4224.4	4200.2	4189.3	4176.1	4173.9	4184.9	4187.1	4189.3	4191.5	4200.2
5°	4270.7	4248.6	4226.7	4213.5	4217.9	4220.0	4242.1	4257.4	4268.4	4277.2	4281.6
7.5°	4347.6	4330.0	4292.6	4290.4	4297.0	4316.8	4345.4	4380.6	4400.4	4415.8	4420.2
10°	4461.9	4429.0	4385.1	4391.6	4404.8	4433.4	4492.8	4521.4	4554.4	4582.9	4576.3
12.5°	4578.6	4550.0	4499.3	4503.7	4525.8	4576.3	4633.5	4668.7	4690.7	4712.6	4721.5
15°	4730.3	4679.6	4624.7	4624.7	4664.3	4719.3	4745.6	4774.2	4787.5	4811.7	4820.5
17.5°	4886.4	4820.5	4747.9	4743.5	4791.9	4818.2	4833.6	4838.0	4842.4	4868.9	4877.6
20°	5042.5	4969.9	4866.6	4857.8	4868.9	4864.4	4862.2	4857.8	4864.4	4897.3	4910.6
22.5°	5196.4	5112.9	4969.9	4930.4	4899.6	4857.8	4855.6	4853.4	4857.8	4890.8	4912.8
25°	5376.8	5275.7	5084.3	4965.6	4862.2	4805.0	4811.7	4813.8	4818.2	4844.7	4879.8
27.5°	5572.5	5460.4	5189.9	4954.5	4767.7	4728.0	4717.0	4723.7	4739.1	4780.8	4822.6
30°	5768.2	5636.3	5286.6	4910.6	4648.9	4593.9	4558.7	4574.2	4622.5	4664.3	4710.5
32.5°	5946.3	5814.4	5363.6	4813.8	4497.2	4411.4	4365.2	4385.1	4433.4	4448.8	4503.7
35°	6155.3	6005.8	5396.6	4659.9	4332.3	4200.2	4138.7	4110.1	4134.3	4119.0	4167.3
37.5°	6388.4	6232.2	5392.2	4457.6	4138.7	3986.9	3901.3	3793.4	3742.9	3690.1	3723.1
40°	6733.6	6509.4	5339.4	4213.5	3899.0	3760.4	3606.6	3424.0	3309.6	3206.3	3212.9
42.5°	7204.2	6894.2	5242.7	3945.2	3628.5	3498.7	3289.8	3076.5	2896.2	2724.7	2709.3
45°	7905.7	7397.7	5121.7	3659.4	3336.1	3208.5	2981.9	2742.3	2537.8	2317.8	2291.5
47.5°	8917.4	8075.1	5007.3	3333.8	3028.2	2911.6	2707.1	2485.0	2243.1	2029.8	2005.6
50°	10307.2	9047.1	4901.8	3017.2	2724.7	2636.7	2473.9	2247.5	2003.4	1831.9	1820.8
52.5°	12075.2	10368.8	4857.8	2711.5	2441.0	2408.0	2278.3	2067.1	1836.3	1691.1	1680.1
55°	14105.0	11949.9	4857.8	2419.0	2192.5	2203.5	2113.3	1917.6	1717.5	1587.7	1574.6
57.5°	16176.6	13550.8	4769.8	2148.5	1981.4	2027.6	1970.4	1798.9	1618.6	1484.4	1462.4
60°	18085.4	14892.3	4413.5	1902.2	1794.5	1867.0	1829.6	1682.3	1462.4	1350.2	1332.7
62.5°	19552.2	15648.8	3727.5	1706.5	1640.5	1724.0	1704.3	1528.4	1433.8	1387.6	1372.3
65°	20286.7	15525.7	2850.0	1532.8	1510.7	1640.5	1598.8	1592.1	1517.4	1464.6	1447.0
67.5°	19835.9	14465.7	2067.1	1405.3	1436.0	1563.5	1724.0	1750.5	1611.9	1508.6	1491.0
70°	17858.9	12548.0	1539.3	1284.3	1341.4	1565.8	1966.0	1831.9	1581.2	1460.2	1440.4
72.5°	13586.1	9357.1	1194.1	1156.7	1218.3	1576.8	2073.8	1794.5	1493.2	1614.2	1600.9
75°	7769.4	5137.1	958.8	1000.6	1064.4	1473.4	2018.7	1697.7	1425.1	1482.1	1482.1
77.5°	2962.1	1974.8	791.7	846.6	855.5	1286.5	1930.8	1691.1	1356.9	1323.9	1207.3
80°	1026.9	771.9	655.3	672.9	661.9	1143.5	1851.7	1471.2	1110.6	993.9	961.0
82.5°	420.0	384.9	519.0	497.0	470.6	888.5	1495.4	1202.9	908.3	802.7	793.9
85°	182.6	244.1	343.1	301.2	272.6	615.7	1198.5	1018.1	767.5	661.9	659.7
87.5°	37.4	92.4	145.1	136.3	140.7	411.2	851.1	723.5	543.1	406.8	318.9
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)