

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: P969860

Luminaire Tested: **NAV-SB6A-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28830.2 lumens
Efficiency: N/A
Efficacy: 168.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

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



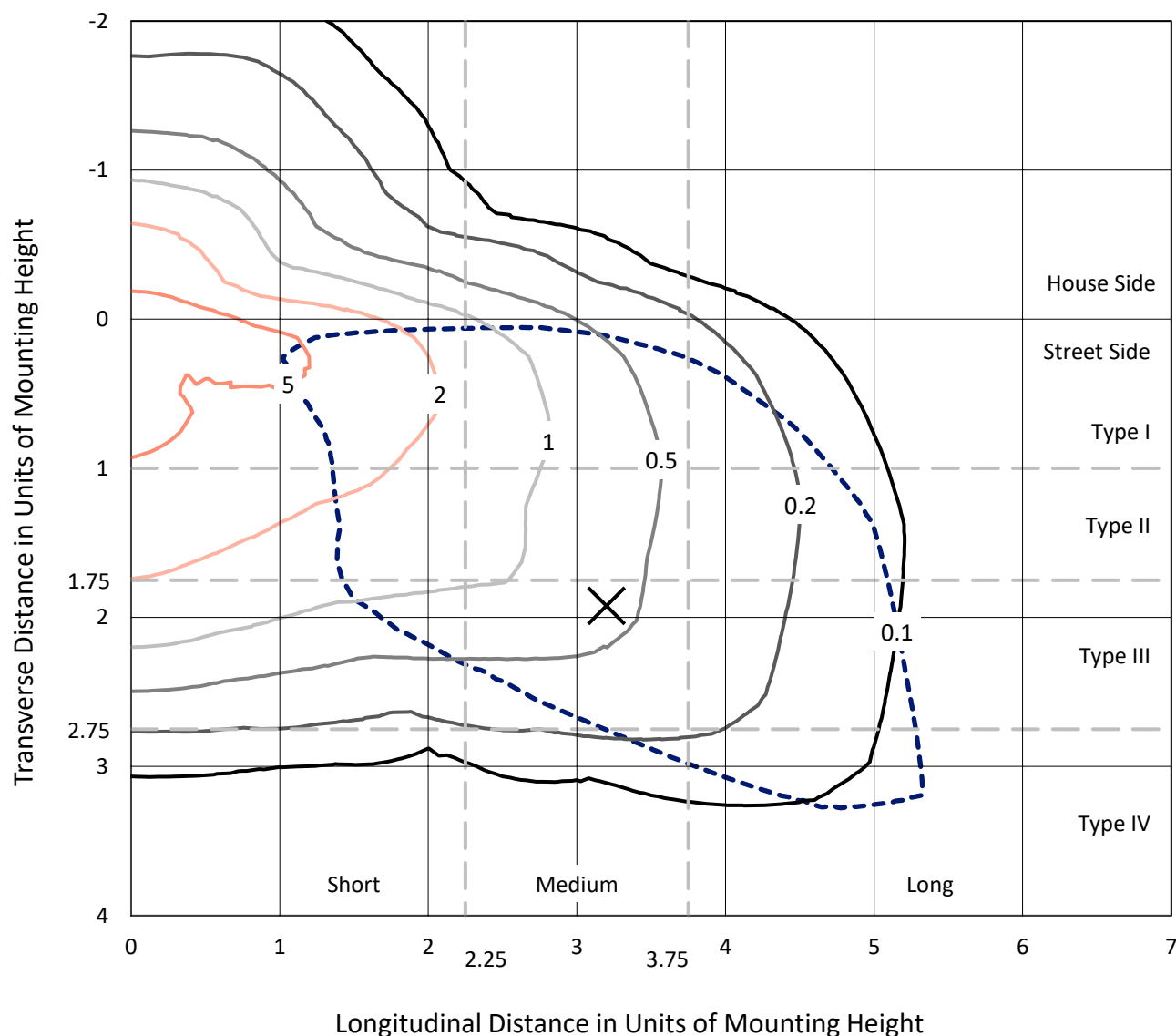
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

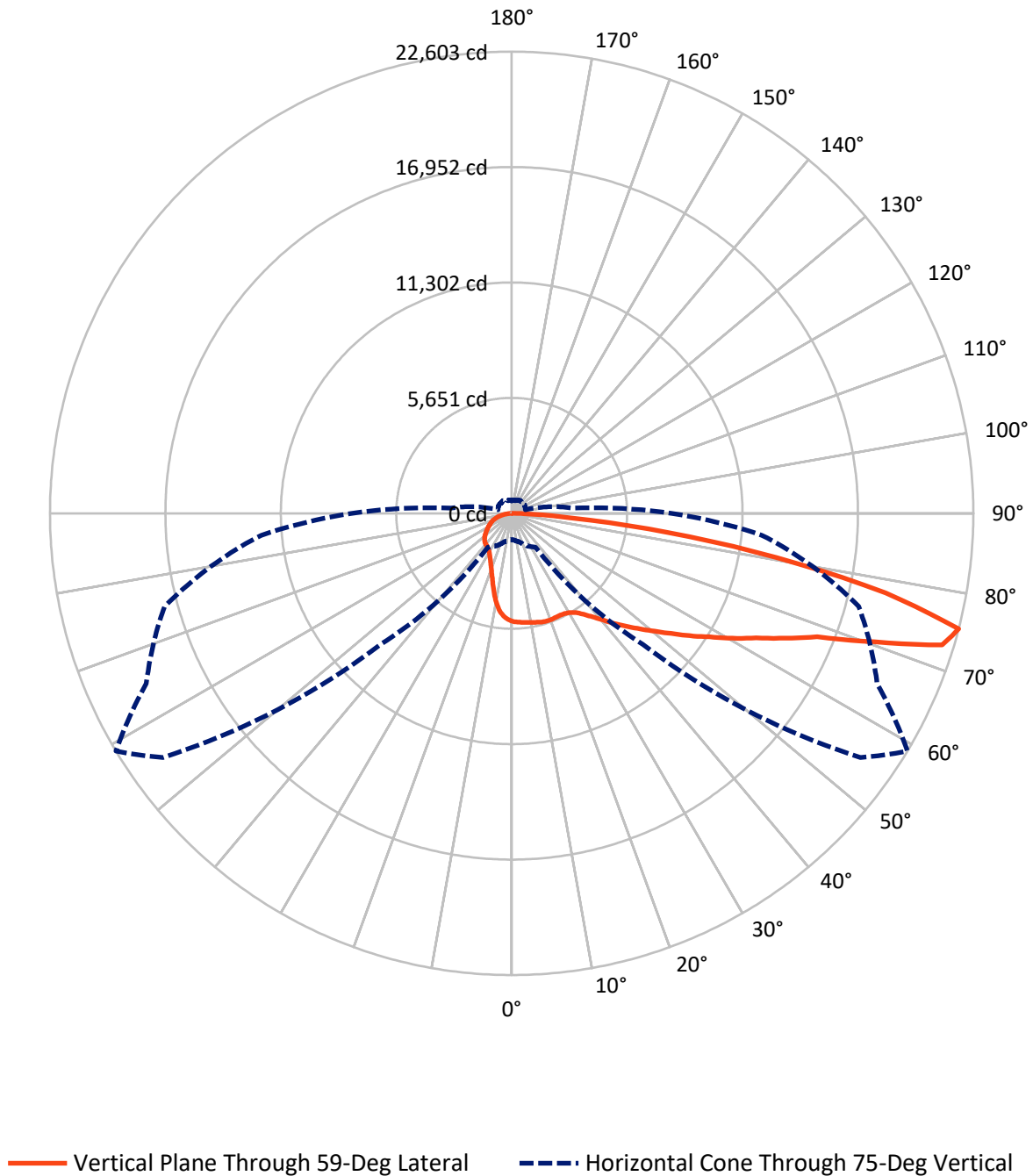
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5407.3	0.0	5407.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23422.9	0.0	23422.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	28830.2	0.0	28830.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.5	1.6
10°-20°	1212.8	4.2
20°-30°	1842.2	6.4
30°-40°	2738.3	9.5
40°-50°	4072.4	14.1
50°-60°	5527.8	19.2
60°-70°	6748.5	23.4
70°-80°	5296.2	18.4
80°-90°	917.4	3.2
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°	28830.2	100.0
0°-180°	28830.2	100.0

Coefficient of Utilization



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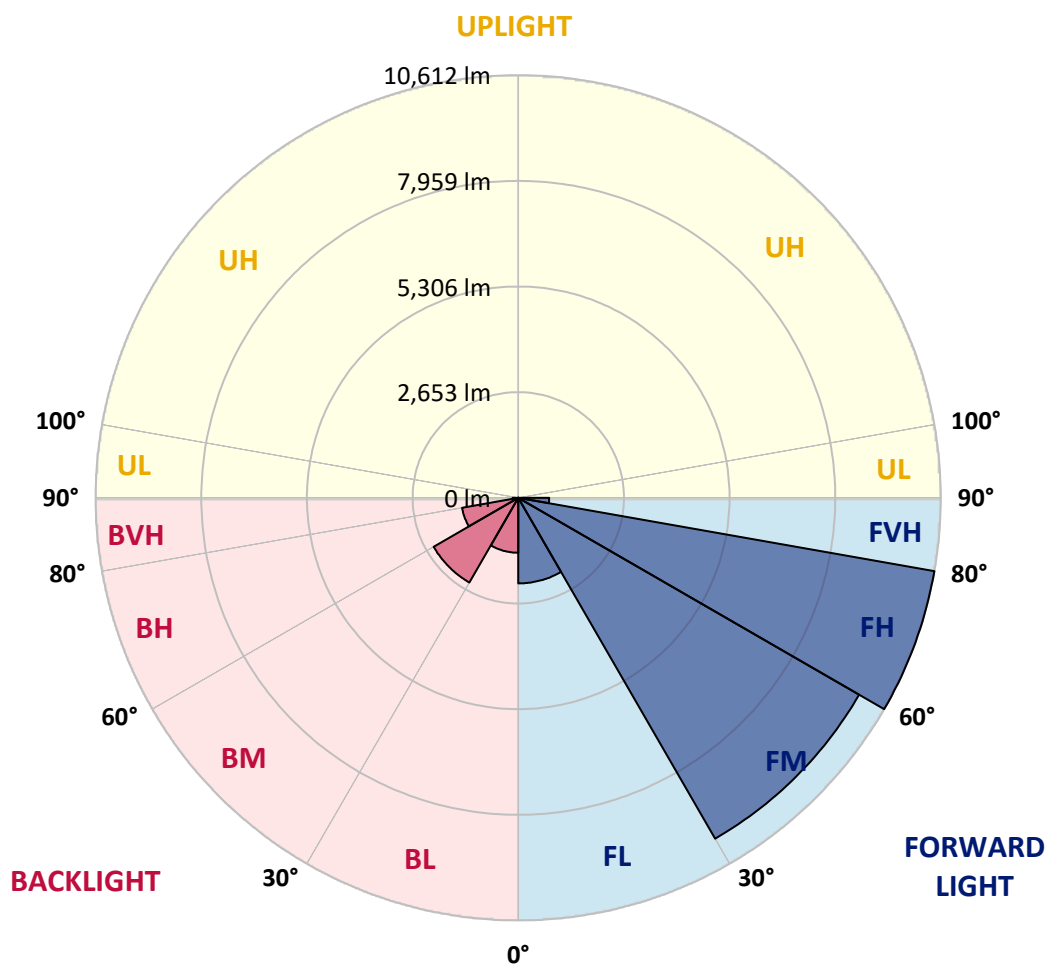
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2149.6	7.5			
FM	(30°-60°)	9884.2	34.3			
FH	(60°-80°)	10612.1	36.8			G4/12000
FVH	(80°-90°)	777.0	2.7			G5
BL	(0°-30°)	1379.9	4.8	B3/2500		
BM	(30°-60°)	2454.4	8.5	B2/2500		
BH	(60°-80°)	1432.6	5.0	B3/2500		G3/2500
BVH	(80°-90°)	140.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7
2.5°	5336.7	5318.1	5336.7	5329.0	5325.8	5319.6	5321.2	5332.0	5325.8	5333.6	5307.2
5°	5301.0	5290.1	5308.8	5304.2	5324.3	5327.3	5347.5	5359.9	5367.7	5369.3	5349.1
7.5°	5242.1	5231.2	5257.6	5279.3	5322.7	5335.1	5377.0	5397.1	5408.0	5426.7	5397.1
10°	5026.5	5021.9	5087.0	5169.2	5271.6	5335.1	5398.8	5432.8	5449.9	5499.5	5465.4
12.5°	4645.0	4651.1	4736.5	4894.7	5099.4	5304.2	5423.6	5473.2	5499.5	5561.5	5546.1
15°	4280.5	4279.0	4372.0	4541.1	4828.0	5167.6	5436.0	5521.3	5566.3	5657.7	5645.3
17.5°	4069.6	4063.4	4128.5	4257.2	4524.0	4958.2	5404.9	5547.6	5643.8	5758.6	5747.7
20°	4030.8	4018.4	4052.5	4116.1	4305.3	4728.7	5324.3	5547.6	5705.8	5854.7	5848.4
22.5°	4172.0	4151.8	4137.8	4130.0	4213.9	4539.5	5232.8	5529.1	5797.3	5992.8	5981.9
25°	4455.8	4424.7	4353.4	4283.6	4258.8	4454.2	5152.2	5524.3	5933.8	6178.8	6138.5
27.5°	4914.9	4876.0	4731.8	4564.3	4413.9	4497.6	5116.5	5552.2	6084.2	6375.8	6295.1
30°	5484.1	5442.1	5260.7	5003.2	4733.3	4658.9	5161.4	5634.4	6276.6	6637.9	6479.7
32.5°	5994.3	5947.8	5792.7	5530.6	5166.1	4938.1	5304.2	5791.1	6579.0	7002.4	6757.3
35°	6447.1	6392.8	6253.3	6011.3	5696.5	5330.5	5561.5	6068.7	7008.5	7594.8	7134.2
37.5°	6890.7	6827.1	6675.1	6419.3	6199.0	5853.2	5916.7	6425.4	7579.3	8314.5	7633.6
40°	7387.0	7295.5	7110.9	6858.2	6644.2	6465.8	6383.6	6862.8	8159.3	9117.8	8257.1
42.5°	7867.8	7781.0	7560.7	7345.2	7076.8	7025.7	6924.8	7374.6	8793.7	10000.3	8889.8
45°	8385.8	8281.9	8015.1	7742.1	7573.1	7397.8	7449.1	7886.4	9415.5	10899.8	9553.6
47.5°	8871.2	8754.9	8440.1	8136.0	8043.1	7711.2	7929.8	8449.4	10062.3	11811.8	10211.3
50°	9133.4	9018.6	8756.5	8482.0	8409.1	8097.3	8450.9	9068.2	10740.1	12720.6	10842.4
52.5°	9352.0	9228.0	8885.2	8733.2	8711.5	8517.6	9093.0	9775.4	11417.8	13524.0	11451.9
55°	9584.7	9446.6	9009.2	8872.8	8972.0	8989.0	9854.5	10577.2	12134.4	14307.2	12027.3
57.5°	9852.9	9677.7	9128.6	8990.7	9226.3	9541.2	10729.2	11408.6	12838.4	15033.0	12539.1
60°	10105.8	9929.0	9358.2	9178.3	9500.9	10181.7	11732.7	12415.1	13635.6	15679.7	13023.0
62.5°	10155.4	10009.6	9541.2	9539.7	9873.1	10929.3	12920.6	13430.9	14332.0	16318.7	13457.2
65°	9296.1	9204.7	8927.0	9525.7	10406.6	12005.6	14243.6	14730.6	15217.6	16877.0	13838.8
67.5°	7075.3	7087.7	7067.5	8223.0	9975.5	13551.8	16158.9	16121.7	16310.9	17503.6	14277.7
70°	3235.2	3308.1	3782.7	5676.3	7991.8	13730.2	19326.0	18843.6	17683.5	18314.7	14657.7
72.5°	1747.8	1803.7	1997.6	2749.8	4804.7	12207.2	21692.6	22035.3	19508.9	18860.6	14240.5
75°	1282.6	1313.6	1448.5	1747.8	2017.7	9072.9	20844.3	22603.0	19736.9	17587.4	12297.2
77.5°	960.0	974.0	1084.0	1385.0	1032.9	4783.1	16655.2	18719.5	16895.7	14449.8	9083.7
80°	696.4	711.9	794.1	1039.1	724.3	1749.5	11436.4	13139.4	11571.3	9210.9	4527.1
82.5°	480.8	487.0	522.6	707.2	505.6	679.3	6489.1	7704.9	6459.5	3232.1	1222.1
85°	290.0	297.8	313.2	412.6	286.9	322.6	2800.9	2897.1	1930.9	772.3	380.0
87.5°	119.4	127.2	139.6	173.7	113.3	90.0	462.2	580.0	361.3	226.4	117.9
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°	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7	5291.7
2.5°	5299.5	5288.6	5259.2	5218.8	5181.6	5135.0	5115.0	5097.8	5082.4	5052.8	5038.9
5°	5332.0	5302.5	5223.5	5121.1	5004.8	4877.7	4753.5	4668.3	4595.4	4541.1	4496.1
7.5°	5381.7	5325.8	5181.6	4972.3	4705.5	4432.5	4185.9	4010.6	3878.8	3830.7	3747.0
10°	5432.8	5366.2	5115.0	4745.8	4285.2	3864.9	3537.6	3357.7	3252.2	3218.2	3165.4
12.5°	5493.3	5395.6	5011.0	4431.0	3815.3	3354.6	3069.3	2963.8	2909.5	2890.9	2895.5
15°	5581.7	5420.4	4854.4	4037.1	3367.0	2982.4	2797.8	2725.0	2697.1	2695.4	2701.7
17.5°	5648.5	5425.1	4610.9	3615.2	3022.7	2757.6	2605.5	2577.6	2596.2	2624.1	2635.0
20°	5722.9	5383.2	4291.4	3230.6	2780.8	2560.6	2497.0	2515.6	2560.6	2600.8	2614.9
22.5°	5775.6	5307.2	3905.1	2931.2	2571.4	2447.3	2444.2	2483.1	2507.9	2528.0	2538.8
25°	5822.1	5178.5	3495.8	2680.0	2399.2	2379.1	2413.3	2400.9	2383.7	2400.9	2411.6
27.5°	5856.2	4975.3	3129.7	2459.8	2278.3	2332.6	2312.4	2284.5	2283.0	2292.2	2307.8
30°	5845.4	4703.9	2828.9	2250.4	2193.0	2245.7	2197.6	2193.0	2188.4	2193.0	2210.0
32.5°	5845.4	4395.3	2597.8	2106.2	2138.7	2118.6	2113.9	2103.0	2084.4	2082.9	2103.0
35°	5878.0	4086.7	2399.2	2028.6	2093.8	2045.7	2048.8	2022.4	1983.6	1965.0	1983.6
37.5°	5944.7	3838.5	2202.3	1991.4	2014.6	2013.1	2000.7	1955.7	1887.4	1828.5	1848.7
40°	6105.9	3765.6	2067.3	1974.4	1977.4	1996.0	1963.5	1876.6	1721.5	1625.3	1637.7
42.5°	6358.8	3888.1	2037.9	1932.4	1952.6	1971.2	1907.6	1706.0	1595.9	1538.5	1538.5
45°	6679.8	4102.2	2101.5	1872.0	1893.7	1926.3	1737.1	1640.8	1591.2	1592.7	1600.5
47.5°	7086.1	4327.0	2219.3	1819.2	1808.4	1827.0	1623.8	1564.9	1496.6	1513.7	1557.1
50°	7556.1	4555.0	2331.1	1747.8	1713.8	1653.2	1550.9	1495.1	1408.2	1367.9	1378.7
52.5°	8064.7	4775.3	2376.0	1661.0	1611.4	1541.6	1501.3	1433.1	1327.6	1260.9	1259.3
55°	8547.1	4975.3	2326.3	1557.1	1509.0	1454.8	1448.5	1406.7	1293.4	1200.4	1200.4
57.5°	9003.1	5142.8	2202.3	1451.6	1405.2	1372.6	1414.4	1394.3	1251.6	1132.2	1126.0
60°	9389.2	5257.6	2022.4	1344.6	1312.1	1295.0	1358.6	1352.4	1192.7	1059.2	1054.6
62.5°	9696.3	5302.5	1823.9	1242.3	1234.5	1203.6	1281.0	1281.0	1118.2	987.9	983.3
65°	9936.7	5259.2	1622.3	1141.4	1157.0	1110.5	1186.4	1177.1	1039.1	924.3	918.1
67.5°	10149.1	5116.5	1398.9	1042.2	1077.9	1019.0	1087.2	1065.5	952.2	860.8	854.5
70°	10243.7	4784.6	1144.6	943.0	986.4	929.0	987.9	947.6	854.5	792.5	780.1
72.5°	9483.8	3976.6	901.1	839.1	876.3	829.7	880.9	834.4	749.1	721.2	697.9
75°	7846.1	2984.0	693.2	725.8	753.8	718.1	752.1	718.1	640.5	660.7	603.3
77.5°	5698.1	2014.6	530.4	606.4	618.8	600.2	629.7	590.9	521.1	516.5	493.2
80°	2833.5	1180.3	415.6	479.2	474.6	462.2	496.3	477.6	418.7	443.5	438.9
82.5°	820.4	505.6	302.5	336.5	327.3	330.4	355.2	364.5	545.9	541.3	553.7
85°	257.5	198.5	181.4	187.7	178.4	183.0	209.4	415.6	384.6	224.9	243.5
87.5°	66.7	68.3	45.0	48.1	49.6	58.9	66.7	252.8	121.0	79.1	83.7
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)