

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: P971312

Luminaire Tested: **NAV-SB6D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971312
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-SB6D-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53140.1 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

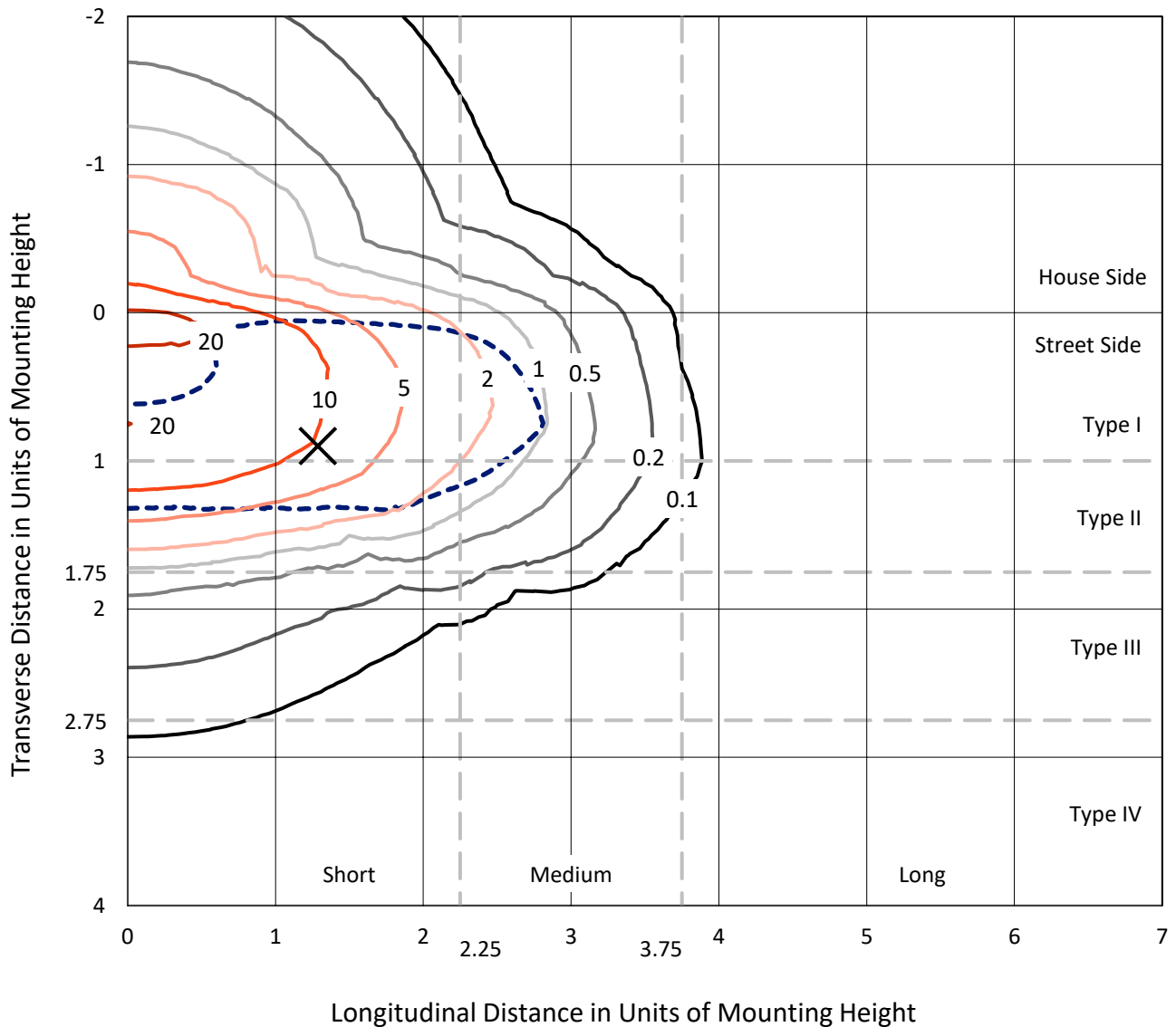
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

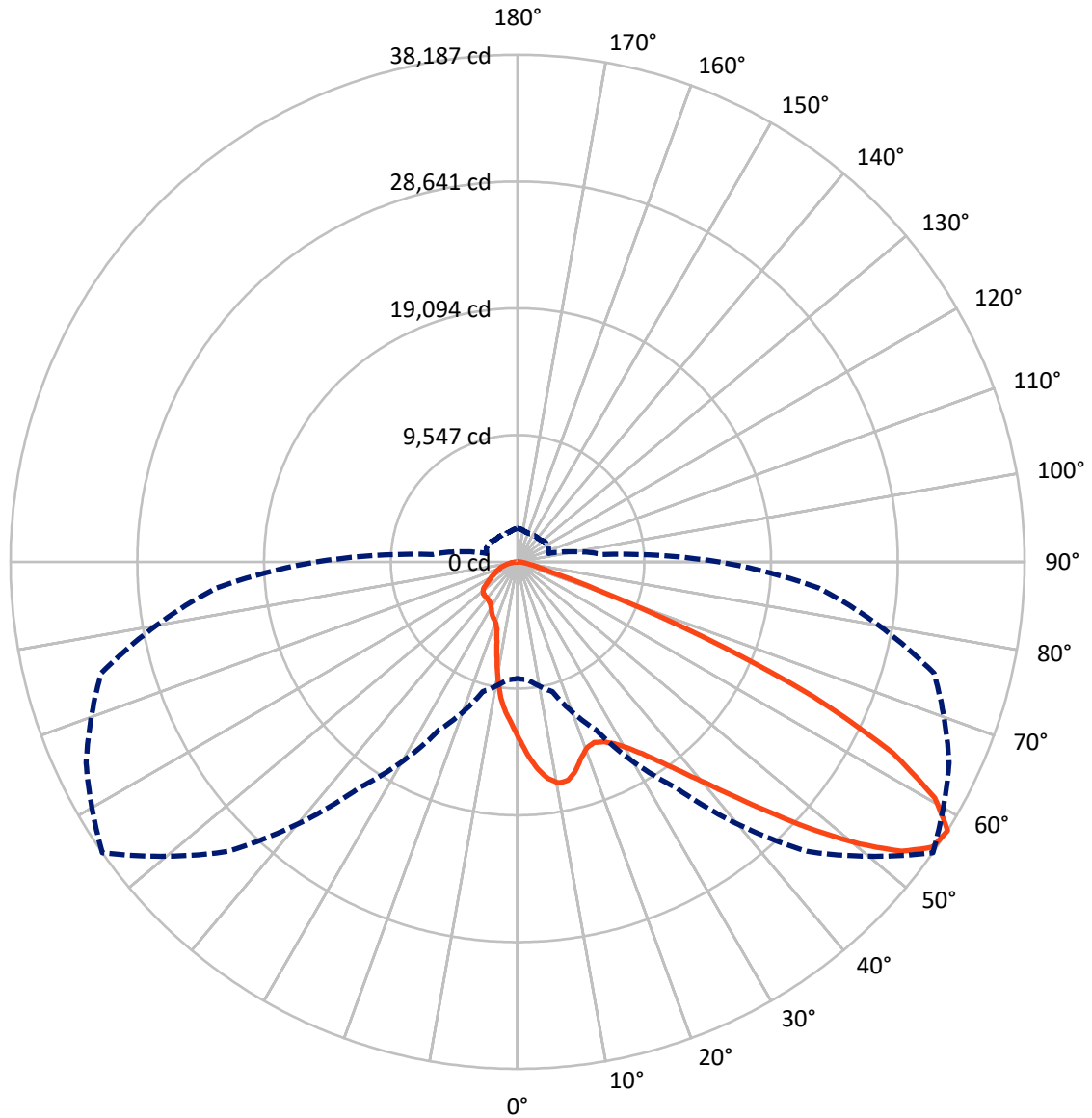
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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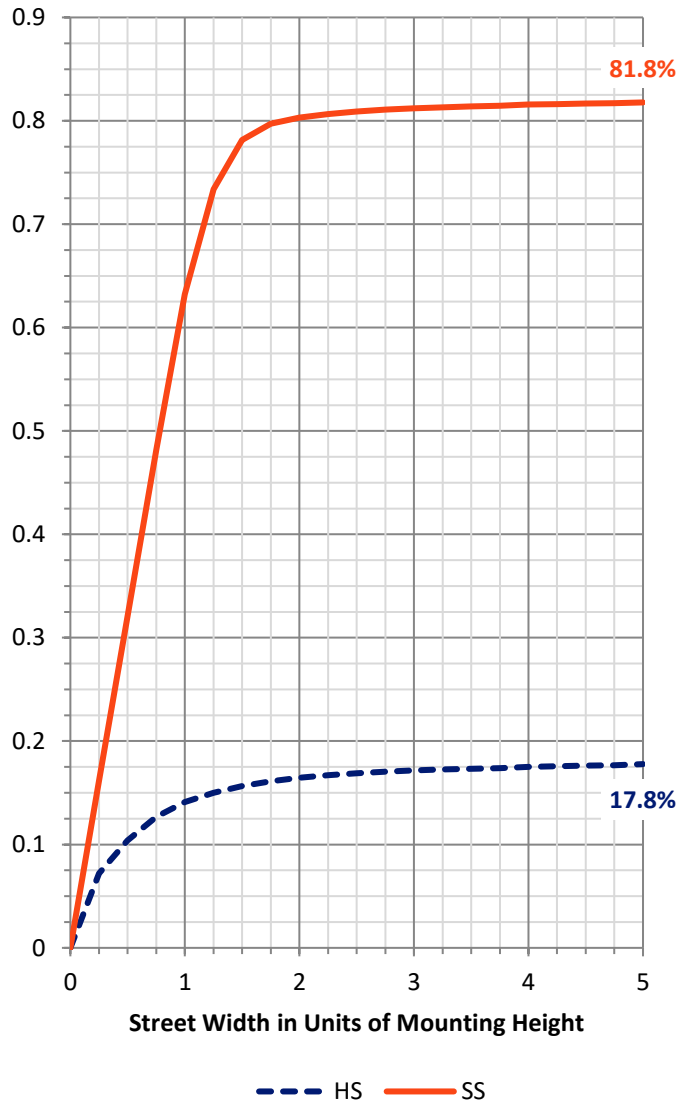
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9615.4	0.0	9615.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	43524.7	0.0	43524.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	53140.1	0.0	53140.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1235.6	2.3
10°-20°	3118.6	5.9
20°-30°	4976.5	9.4
30°-40°	7879.0	14.8
40°-50°	12059.6	22.7
50°-60°	12916.9	24.3
60°-70°	8126.1	15.3
70°-80°	2403.0	4.5
80°-90°	424.9	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°	53140.1	100.0
0°-180°	53140.1	100.0

Coefficient of Utilization

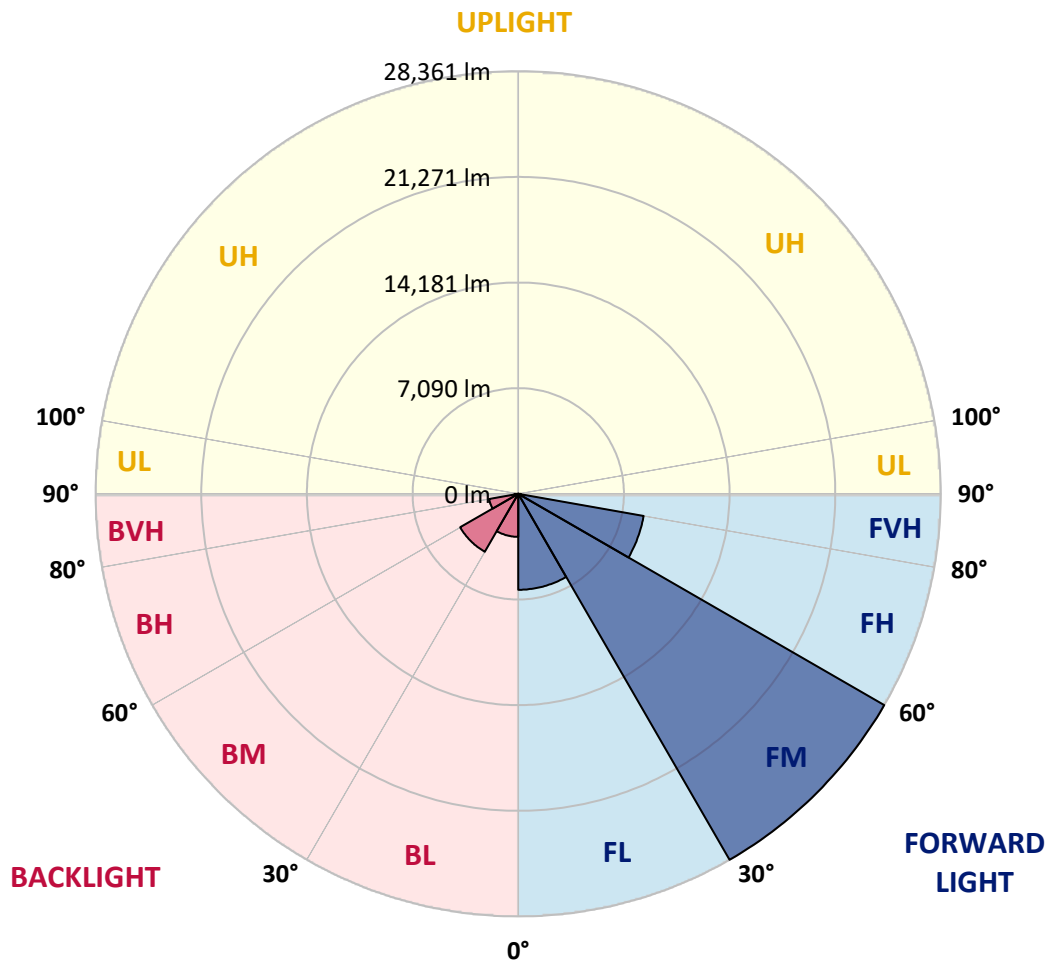


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6440.6	12.1			
FM (30°-60°)	28361.2	53.4			
FH (60°-80°)	8543.3	16.1			G4/12000
FVH (80°-90°)	179.5	0.3			G2/225
BL (0°-30°)	2890.1	5.4	B4/5000		
BM (30°-60°)	4494.2	8.5	B3/5000		
BH (60°-80°)	1985.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	245.4	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°	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2
2.5°	15276.6	15265.6	15326.1	15120.0	14980.0	14790.3	14540.3	14221.8	13878.3	13515.8	13359.1
5°	16652.9	16556.7	16620.0	16466.1	16312.3	16026.6	15655.7	15136.5	14501.9	13779.5	13394.8
7.5°	16435.9	16370.0	16532.0	16669.4	16784.8	16749.0	16477.1	15933.2	15114.5	14065.2	13507.4
10°	14686.0	14611.8	14839.8	15315.0	16012.9	16620.0	16949.6	16611.7	15740.8	14378.3	13617.3
12.5°	13142.1	13106.4	13257.5	13642.1	14416.7	15581.5	16889.1	17205.0	16391.9	14749.1	13765.7
15°	12482.9	12438.9	12535.0	12730.1	13224.6	14309.6	16339.7	17611.7	17032.0	15177.7	14001.9
17.5°	12337.2	12287.8	12329.0	12430.6	12749.3	13576.1	15510.1	17812.1	17699.6	15655.7	14199.7
20°	12606.5	12565.3	12570.7	12565.3	12787.7	13444.3	14933.2	17735.3	18281.9	16095.3	14392.0
22.5°	13257.5	13188.8	13191.5	13046.0	13166.8	13675.0	14782.1	17529.2	18801.2	16479.8	14537.7
25°	14317.9	14194.3	14219.0	13848.2	13815.2	14191.5	15018.4	17369.9	19317.6	16787.6	14565.1
27.5°	15768.3	15628.3	15554.1	15001.9	14738.2	14925.0	15499.1	17424.8	19806.6	17053.9	14496.5
30°	17581.4	17411.1	17260.0	16477.1	15999.1	15930.4	16246.4	17787.4	20383.5	17334.2	14378.3
32.5°	19803.8	19606.0	19331.3	18293.0	17619.9	17260.0	17213.3	18433.0	21059.2	17691.3	14317.9
35°	22449.2	22191.0	21800.9	20457.7	19606.0	18869.8	18487.9	19364.3	21985.0	18229.7	14386.6
37.5°	25174.4	24883.2	24526.1	22927.3	21880.7	20795.5	20042.8	20627.9	23218.5	18960.4	14567.8
40°	27688.0	27361.1	27028.7	25605.7	24482.1	23174.5	21946.6	22226.8	24726.6	19834.1	14875.5
42.5°	29171.4	28929.7	28803.3	28034.2	27166.1	25839.2	24314.5	24122.2	26421.6	20839.5	15227.2
45°	29105.5	29006.6	29396.7	29715.4	29509.3	28773.1	27089.1	26218.3	28122.0	21710.3	15551.3
47.5°	27550.7	27616.6	28487.4	30278.5	31066.9	31451.5	30248.3	28275.9	29600.0	22361.4	15697.0
50°	23320.1	23375.0	25391.4	29253.8	31468.0	33635.5	33382.7	30284.0	30745.5	22759.7	15663.9
52.5°	19971.4	20007.1	20872.5	26215.6	30143.9	34734.3	36206.8	32176.8	31583.4	22869.6	15479.9
55°	15043.1	15166.7	16136.5	20567.5	26699.0	33863.4	37926.4	34127.2	32113.6	22880.6	15287.6
57.5°	8787.9	8922.6	10120.3	13960.7	20751.5	30827.9	38187.4	35857.9	32473.4	22792.7	15172.3
60°	4304.7	4362.4	4884.3	7337.5	12796.0	24979.4	36088.6	36695.7	32674.0	22746.0	15166.7
62.5°	2901.0	2892.7	2914.7	3620.7	6304.6	16048.5	31715.2	35228.7	32566.8	22567.4	15111.8
65°	2494.3	2464.1	2381.7	2541.1	3266.3	7340.2	24504.2	30849.9	31750.9	22119.6	14735.4
67.5°	2156.5	2159.3	2161.9	2112.5	2332.3	3387.2	14974.4	24300.8	28822.6	19998.9	13284.9
70°	1785.7	1810.4	1821.3	1821.3	1901.0	2222.4	6392.5	16655.6	22735.0	15680.4	10700.0
72.5°	1626.3	1574.1	1579.6	1552.2	1552.2	1692.2	2574.0	9441.8	14323.4	8820.9	6529.9
75°	1326.9	1359.8	1365.3	1346.0	1282.9	1291.1	1527.4	3961.3	6128.8	3659.1	3227.8
77.5°	1145.5	1145.5	1156.5	1142.8	1093.4	967.0	1019.2	1535.7	2085.1	1499.9	1612.5
80°	920.2	917.6	964.2	991.7	914.8	714.2	651.1	848.8	925.8	659.3	837.8
82.5°	447.8	475.3	662.0	755.4	695.1	516.5	398.3	527.5	494.5	291.2	376.4
85°	261.0	247.2	296.7	420.4	398.3	285.7	192.3	274.7	258.2	148.3	151.1
87.5°	82.4	76.9	60.5	142.9	115.4	79.6	52.2	79.6	71.4	33.0	33.0
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°	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2	13315.2
2.5°	13164.1	12840.0	12518.5	12224.6	12046.0	11930.7	11815.3	11686.1	11636.7	11562.5
5°	13032.3	12405.9	11848.3	11367.5	10930.7	10587.3	10241.2	9960.9	9834.6	9919.7
7.5°	12955.3	12048.8	11188.9	10307.1	9458.3	8779.7	8189.1	7774.3	7587.5	7634.2
10°	12886.6	11644.9	10334.6	8941.8	7722.0	6881.4	6277.1	5961.2	5843.1	5867.8
12.5°	12823.5	11191.7	9304.4	7472.1	6175.5	5620.6	5447.5	5450.2	5472.3	5488.7
15°	12812.5	10645.0	8153.4	6186.5	5340.4	5304.7	5491.4	5609.6	5672.8	5692.0
17.5°	12796.0	9991.2	6980.4	5310.1	5137.1	5378.8	5551.9	5628.8	5678.3	5681.0
20°	12730.1	9161.6	5898.1	4892.6	5093.1	5301.9	5409.0	5469.5	5510.7	5524.4
22.5°	12526.7	8238.5	5054.7	4705.8	4917.3	5084.9	5211.2	5279.9	5304.7	5321.1
25°	12161.4	7205.6	4472.3	4527.2	4672.8	4884.3	4986.0	4999.7	4991.4	5016.2
27.5°	11683.4	6098.5	4109.6	4285.4	4472.3	4653.6	4708.5	4700.2	4683.8	4711.3
30°	11106.5	5104.1	3878.9	4013.5	4269.0	4433.8	4483.2	4464.1	4431.1	4461.3
32.5°	10496.6	4291.0	3689.4	3824.0	4101.4	4263.5	4313.0	4293.7	4269.0	4293.7
35°	9928.0	3722.3	3513.5	3697.6	3969.5	4128.9	4192.0	4194.8	4194.8	4225.0
37.5°	9406.0	3389.9	3367.9	3617.9	3878.9	4021.8	4112.4	4117.9	3999.8	4008.1
40°	8922.6	3249.9	3302.0	3565.8	3791.0	3928.3	3933.8	3626.1	3409.2	3403.6
42.5°	8527.0	3222.4	3321.2	3560.2	3727.8	3733.3	3346.0	3107.0	3046.5	3049.3
45°	8156.1	3214.1	3365.2	3560.2	3634.4	3225.1	2964.1	2901.0	2906.4	2928.4
47.5°	7741.3	3181.2	3373.5	3510.8	3365.2	2868.0	2791.1	2763.6	2752.6	2758.1
50°	7288.1	3063.0	3269.0	3411.9	2903.7	2714.1	2618.0	2609.8	2623.5	2631.7
52.5°	6810.1	2870.7	3090.5	3233.4	2692.2	2579.5	2472.4	2491.6	2552.0	2571.3
55°	6496.9	2645.4	2854.2	2876.3	2543.8	2453.1	2362.5	2406.5	2519.0	2554.8
57.5°	6414.4	2406.5	2585.0	2560.2	2354.2	2343.3	2288.3	2326.8	2469.6	2521.8
60°	6389.7	2192.2	2321.3	2302.0	2170.2	2222.4	2208.7	2227.9	2277.3	2293.8
62.5°	6197.5	2021.9	2085.1	2057.6	2005.4	2096.0	2129.0	2087.8	2126.3	2145.5
65°	5708.4	1884.5	1854.3	1835.1	1857.0	1939.4	2005.4	1923.0	1958.7	2013.6
67.5°	4900.8	1697.7	1615.3	1637.2	1705.9	1749.9	1835.1	1741.7	1771.9	1865.3
70°	3964.1	1461.4	1387.2	1450.5	1516.4	1607.1	1620.8	1557.6	1629.0	1733.4
72.5°	2804.8	1222.4	1170.2	1299.4	1321.3	1439.5	1409.3	1379.0	1477.9	1513.6
75°	1944.9	986.3	956.0	1054.9	1134.6	1236.1	1214.2	1249.9	1458.7	1475.2
77.5°	1230.7	766.4	747.2	810.4	920.2	1032.9	1068.7	1475.2	2491.6	2590.5
80°	714.2	571.4	549.4	598.9	695.1	799.4	1030.1	1810.4	1642.8	1623.5
82.5°	398.3	392.9	365.4	379.1	464.2	576.9	1456.0	1274.7	1035.7	1068.7
85°	186.8	230.7	197.8	189.5	261.0	675.8	972.5	728.0	483.5	472.5
87.5°	49.4	44.0	44.0	49.4	109.9	582.4	387.3	310.5	184.1	178.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)