

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: P885146

Luminaire Tested: **NAV-SB6B-750-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-750-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26908 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

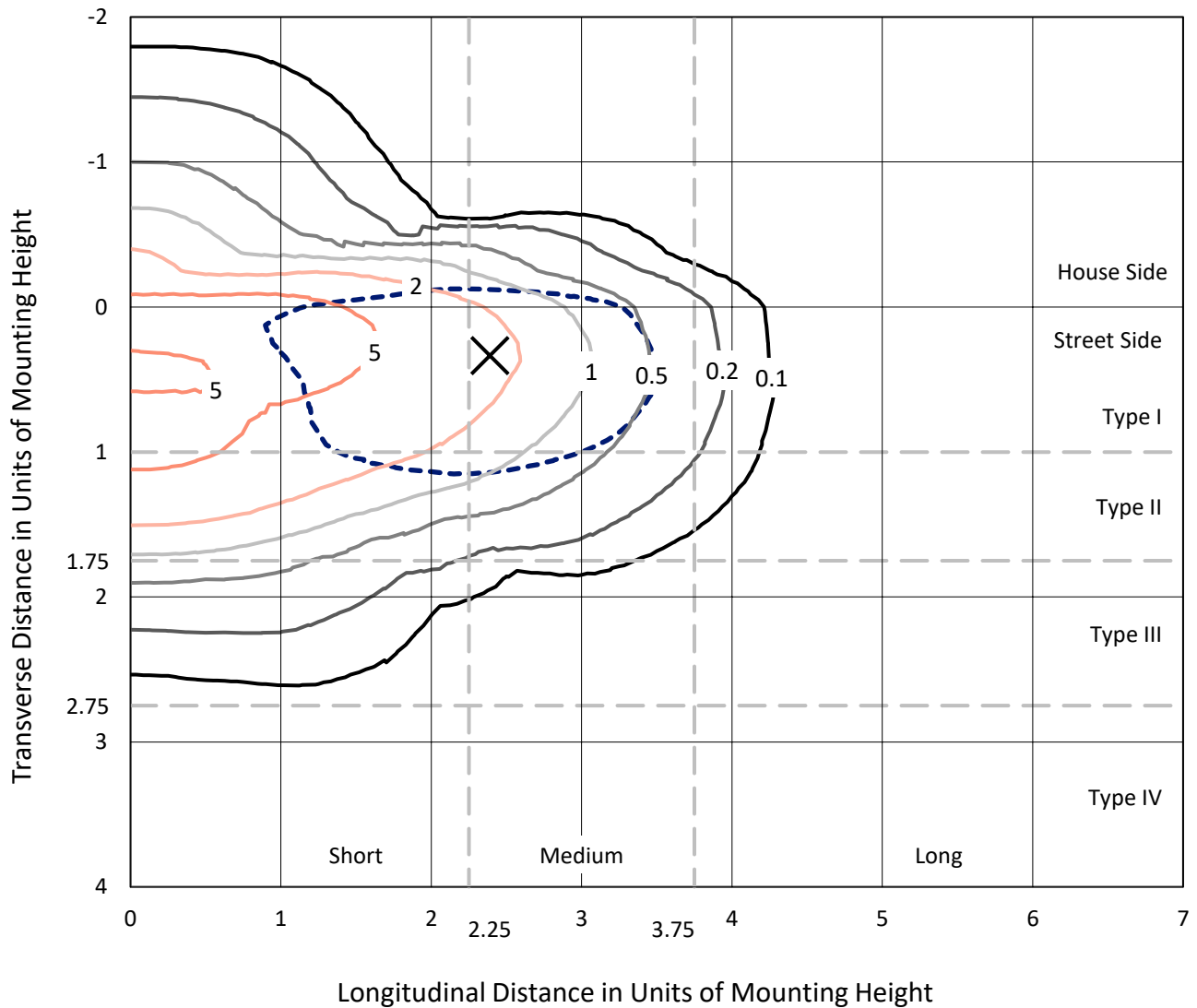
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

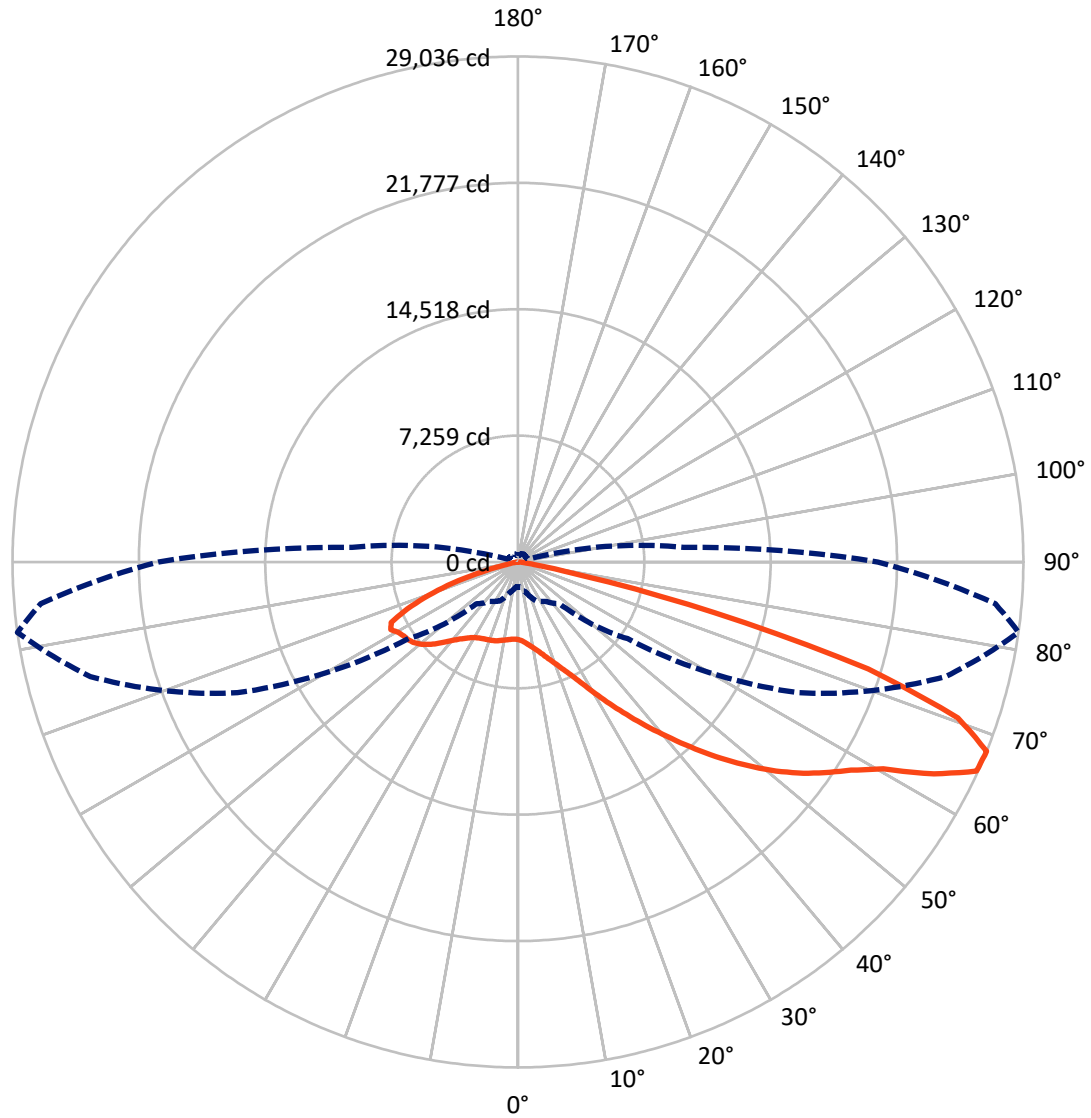
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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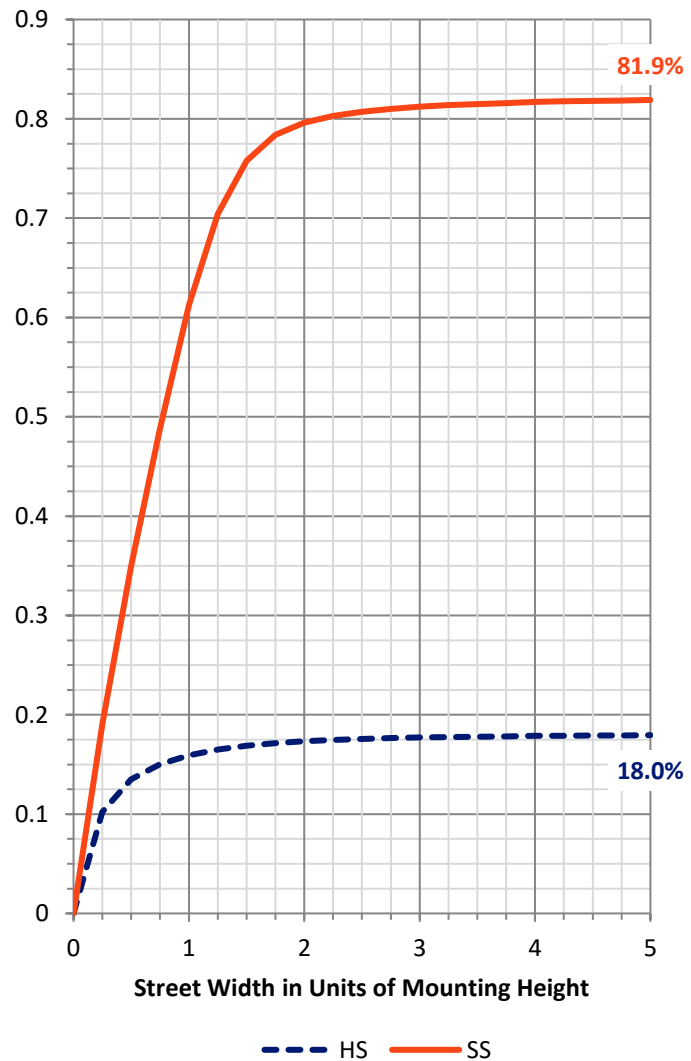
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4874.1	0.0	4874.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22033.8	0.0	22033.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	26908.0	0.0	26908.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.2	1.5
10°-20°	1032.0	3.8
20°-30°	1653.0	6.1
30°-40°	2923.0	10.9
40°-50°	5121.4	19.0
50°-60°	6830.5	25.4
60°-70°	6358.8	23.6
70°-80°	2440.5	9.1
80°-90°	151.6	0.6
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°	26908.0	100.0
0°-180°	26908.0	100.0



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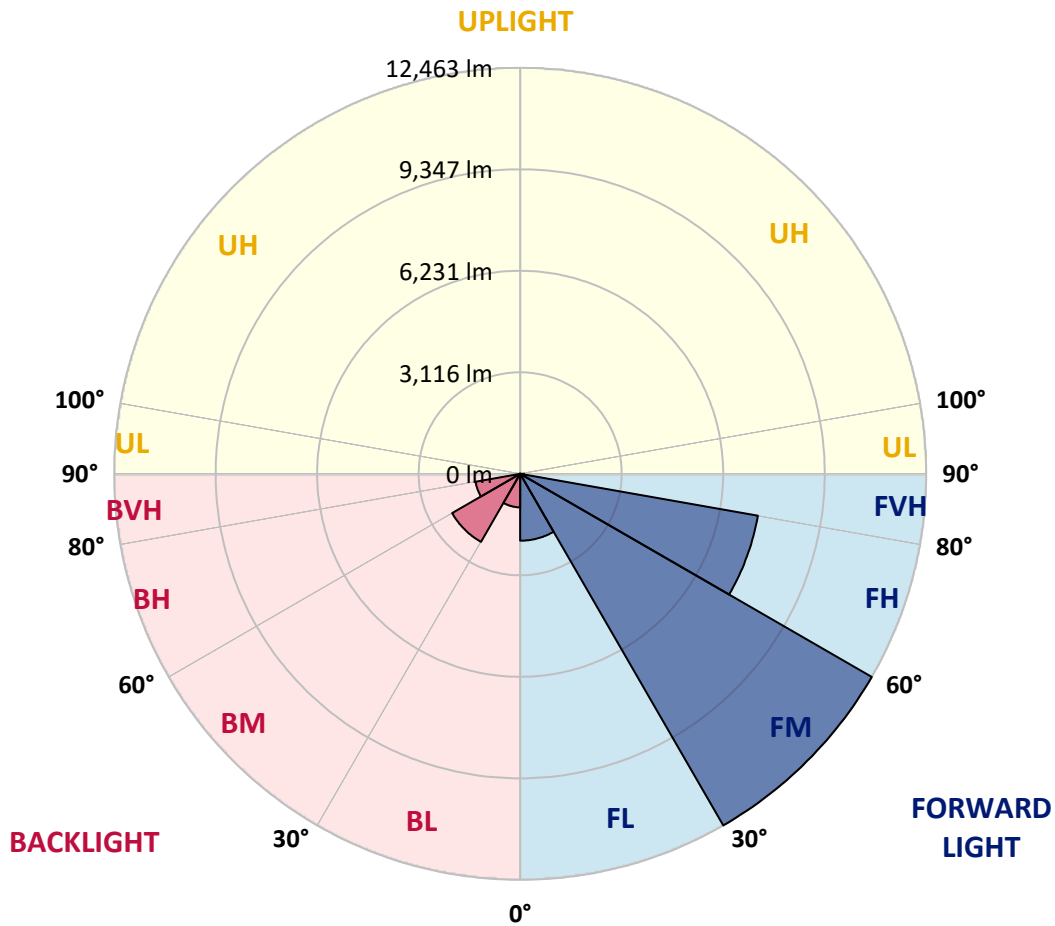
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.8	7.6			
FM (30°-60°)	12462.7	46.3			
FH (60°-80°)	7408.2	27.5			G3/7500
FVH (80°-90°)	110.2	0.4			G2/225
BL (0°-30°)	1029.4	3.8	B3/2500		
BM (30°-60°)	2412.2	9.0	B2/2500		
BH (60°-80°)	1391.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	41.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7
2.5°	4711.5	4738.7	4723.2	4715.4	4701.8	4682.5	4667.0	4618.5	4568.2	4535.2	4523.6
5°	4806.5	4833.6	4831.6	4839.4	4849.1	4854.9	4851.0	4796.8	4725.1	4668.9	4636.0
7.5°	4725.1	4756.1	4781.3	4820.0	4887.8	4959.5	4994.4	4982.8	4909.1	4831.6	4791.0
10°	4494.6	4527.5	4587.5	4678.6	4822.0	4976.9	5106.7	5166.8	5120.3	5035.1	4978.9
12.5°	4072.2	4105.2	4223.3	4420.9	4661.2	4930.4	5178.4	5339.2	5350.8	5265.6	5199.7
15°	3597.6	3630.5	3756.4	4004.4	4370.6	4802.6	5217.2	5521.3	5624.0	5550.4	5471.0
17.5°	3303.1	3332.2	3427.1	3626.6	4008.3	4546.9	5203.6	5715.1	5949.5	5891.4	5796.4
20°	3214.0	3239.2	3283.7	3423.2	3740.9	4281.4	5114.5	5897.2	6300.1	6267.2	6160.6
22.5°	3308.9	3332.2	3345.7	3407.7	3607.3	4107.1	5002.1	6083.1	6707.0	6710.8	6581.0
25°	3527.8	3551.1	3535.6	3574.3	3661.5	4052.8	4959.5	6302.1	7218.4	7261.0	7113.8
27.5°	3888.2	3890.1	3853.3	3851.4	3864.9	4134.2	5004.1	6536.5	7863.5	7943.0	7760.9
30°	4610.8	4581.7	4440.3	4287.3	4217.5	4378.3	5128.1	6813.5	8624.9	8766.3	8537.7
32.5°	5724.7	5682.1	5422.5	5056.4	4688.3	4771.6	5350.8	7129.3	9454.1	9709.8	9430.8
35°	6933.6	6922.0	6650.8	6106.4	5463.2	5331.5	5713.1	7543.9	10358.8	10765.6	10434.3
37.5°	8057.3	8051.5	7896.5	7255.2	6472.5	6112.2	6294.3	8086.3	11327.4	11916.4	11525.0
40°	9084.0	9101.5	8946.5	8373.0	7584.6	7113.8	7084.7	8756.6	12404.6	13169.8	12704.9
42.5°	9971.3	9990.7	9833.8	9409.5	8683.0	8221.9	8055.3	9578.0	13456.5	14516.2	13966.1
45°	10573.8	10693.9	10670.7	10331.7	9810.5	9332.0	9221.6	10608.7	14655.7	15944.0	15298.9
47.5°	10744.3	10854.7	11029.1	11075.6	10757.9	10287.1	10418.8	11850.5	15868.5	17373.8	16639.5
50°	10323.9	10426.6	10788.9	11271.3	11492.1	11346.8	11583.2	13181.4	17110.3	18799.6	17955.0
52.5°	9494.7	9599.4	10056.6	10819.9	11720.7	12177.9	12751.4	14493.0	18313.4	20149.9	19200.7
55°	8295.6	8406.0	8993.0	9857.0	11284.8	12520.8	13725.8	15802.6	19415.7	21364.6	20324.3
57.5°	6664.3	6745.7	7356.0	8564.8	10188.3	12179.9	14444.6	17232.4	20454.1	22558.0	21438.2
60°	4343.4	4415.1	5124.2	6472.5	8371.1	11040.7	14587.9	18826.8	21833.5	24109.8	22939.7
62.5°	2888.5	2937.0	3357.4	4347.3	5895.2	8853.5	13749.1	20099.6	23856.0	26810.4	25514.3
65°	1981.9	2030.3	2450.7	3140.4	3808.7	5856.5	11337.1	19931.0	25688.7	28955.0	27422.6
67.5°	1414.2	1454.9	1811.4	2462.3	2756.8	3401.9	7685.3	17776.7	25425.2	29036.4	27525.3
70°	1013.2	1036.5	1330.9	1917.9	2191.1	2043.9	4273.7	13596.0	22261.6	26812.3	25429.1
72.5°	709.1	716.8	924.1	1460.7	1764.9	1491.7	2034.2	9064.7	16837.1	21045.0	19714.0
75°	480.5	490.1	621.9	1071.3	1416.2	1139.1	1077.1	4860.7	9884.1	11649.0	10442.1
77.5°	294.5	298.3	401.0	732.3	1059.7	867.9	693.6	2059.4	3824.2	3754.5	3200.4
80°	166.6	166.6	255.7	455.3	722.6	559.9	486.3	875.7	1210.8	1063.6	937.7
82.5°	93.0	94.9	186.0	282.8	478.5	331.3	267.3	404.9	523.1	463.0	403.0
85°	38.7	42.6	114.3	133.7	228.6	164.7	108.5	170.5	193.7	172.4	125.9
87.5°	3.9	5.8	34.9	25.2	27.1	32.9	15.5	32.9	27.1	27.1	19.4
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°	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7	4457.7
2.5°	4486.8	4457.7	4384.1	4298.9	4186.5	4132.3	4058.7	4008.3	3965.7	3969.5	3930.8
5°	4574.0	4500.4	4335.7	4130.3	3874.6	3692.5	3498.8	3365.1	3256.6	3233.4	3181.1
7.5°	4694.1	4577.9	4289.2	3919.2	3487.2	3159.7	2867.2	2679.3	2545.6	2503.0	2460.4
10°	4849.1	4680.5	4229.1	3653.8	3031.9	2615.4	2301.5	2154.3	2063.2	2032.2	2009.0
12.5°	5029.3	4798.7	4149.7	3330.2	2563.1	2162.0	1962.5	1888.9	1859.8	1850.1	1844.3
15°	5255.9	4945.9	4029.6	2946.6	2165.9	1885.0	1799.8	1790.1	1793.9	1790.1	1788.1
17.5°	5525.2	5106.7	3833.9	2551.4	1898.6	1743.6	1712.6	1720.3	1730.0	1728.1	1724.2
20°	5819.7	5265.6	3584.0	2200.8	1716.5	1642.8	1625.4	1633.2	1640.9	1637.0	1635.1
22.5°	6154.8	5436.1	3307.0	1927.6	1594.4	1549.8	1530.5	1532.4	1532.4	1524.7	1520.8
25°	6555.8	5624.0	3016.4	1733.9	1501.4	1466.5	1443.3	1435.5	1423.9	1400.7	1396.8
27.5°	7034.4	5823.5	2737.4	1598.3	1427.8	1394.9	1367.7	1348.4	1319.3	1280.6	1276.7
30°	7572.9	6065.7	2501.1	1513.0	1369.7	1336.7	1305.7	1276.7	1234.1	1185.6	1181.8
32.5°	8206.4	6325.3	2328.6	1456.9	1317.4	1282.5	1245.7	1210.8	1164.3	1115.9	1117.8
35°	8962.0	6639.2	2227.9	1418.1	1276.7	1230.2	1189.5	1150.8	1115.9	1073.3	1069.4
37.5°	9781.5	6972.4	2196.9	1398.7	1249.6	1177.9	1131.4	1104.3	1100.4	1075.2	1073.3
40°	10678.4	7367.6	2220.2	1387.1	1220.5	1127.5	1077.1	1071.3	1081.0	1036.5	1038.4
42.5°	11627.7	7836.4	2258.9	1373.6	1179.8	1077.1	1028.7	1028.7	1021.0	959.0	959.0
45°	12654.5	8376.9	2297.6	1340.6	1131.4	1026.8	990.0	976.4	943.5	883.4	881.5
47.5°	13689.0	8927.1	2326.7	1280.6	1073.3	984.2	951.2	920.2	871.8	817.5	815.6
50°	14671.2	9421.1	2295.7	1191.4	1007.4	943.5	908.6	866.0	813.7	776.9	771.0
52.5°	15548.8	9849.3	2164.0	1086.8	937.7	900.8	869.9	825.3	782.7	743.9	740.1
55°	16312.1	10196.1	1931.5	988.0	875.7	864.0	833.0	776.9	718.7	685.8	681.9
57.5°	17044.4	10459.5	1640.9	906.7	819.5	823.4	776.9	726.5	672.2	637.4	633.5
60°	18018.9	10812.1	1346.4	831.1	759.4	771.0	720.7	683.9	616.1	571.5	565.7
62.5°	19576.5	11360.4	1069.4	738.1	689.7	693.6	672.2	627.7	546.3	494.0	490.1
65°	20812.5	11158.9	842.7	637.4	610.3	616.1	616.1	567.6	480.5	420.4	414.6
67.5°	20673.0	9554.8	672.2	538.6	534.7	538.6	552.1	511.4	426.2	377.8	370.0
70°	19043.7	7600.1	538.6	447.5	465.0	455.3	494.0	466.9	383.6	335.2	329.3
72.5°	15539.1	5474.8	410.7	370.0	356.5	372.0	445.6	420.4	319.7	265.4	259.6
75°	9080.2	2921.5	306.1	292.5	257.7	310.0	395.2	358.4	244.1	195.7	189.9
77.5°	2956.3	1019.0	224.7	215.0	191.8	249.9	337.1	302.2	199.5	155.0	149.2
80°	792.4	308.0	153.0	141.4	124.0	186.0	267.3	240.2	143.4	100.7	98.8
82.5°	317.7	129.8	89.1	79.4	67.8	127.9	211.2	193.7	106.6	63.9	63.9
85°	102.7	42.6	32.9	25.2	31.0	79.4	125.9	131.7	75.6	32.9	25.2
87.5°	13.6	5.8	5.8	7.7	5.8	13.6	38.7	36.8	21.3	3.9	0.0
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)