

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: P963996

Luminaire Tested: **NAV-SB3B-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963996
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-SB3B-730-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17612.6 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

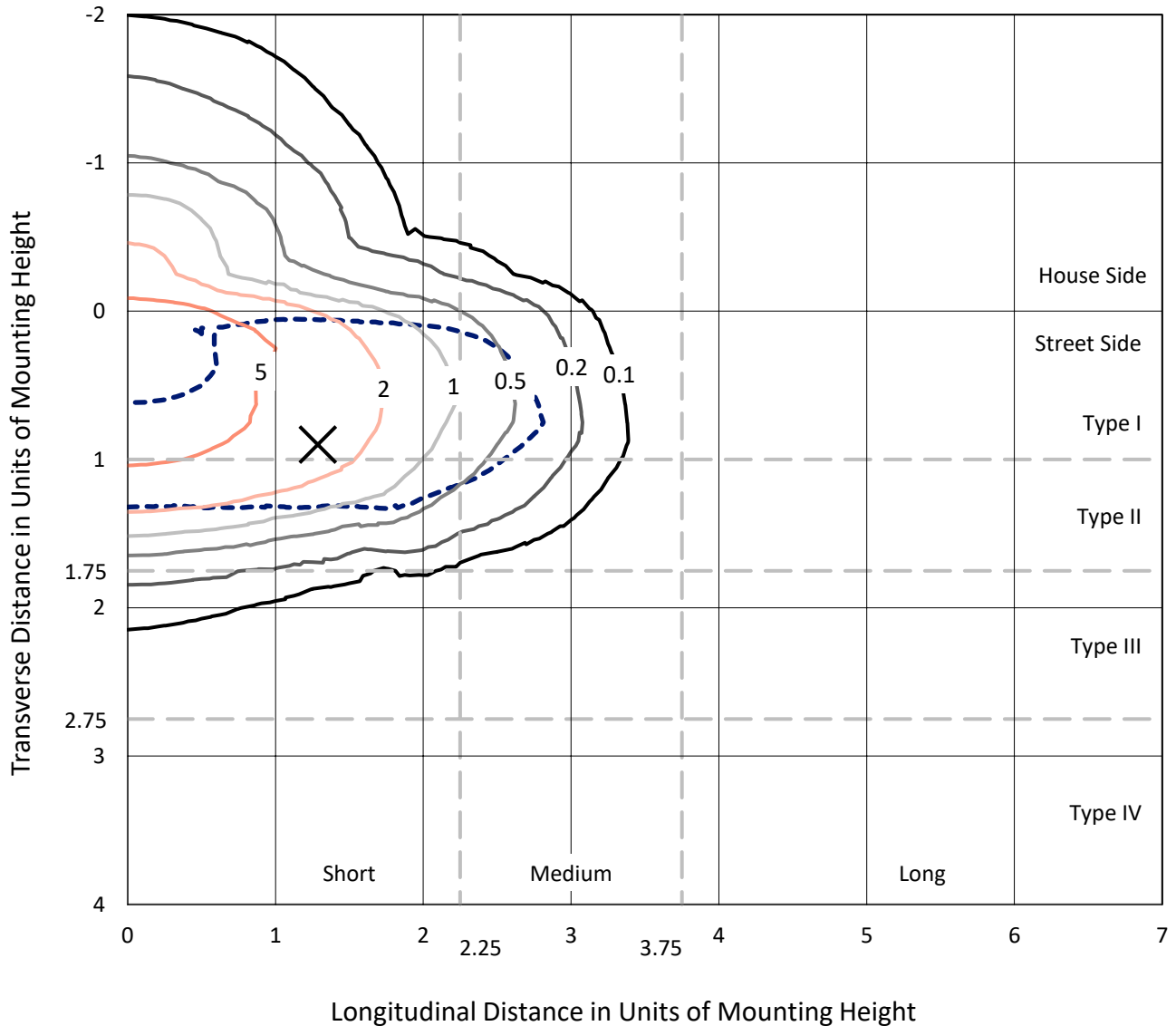
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P963996
 CATALOG NUMBER: NAV-SB3B-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

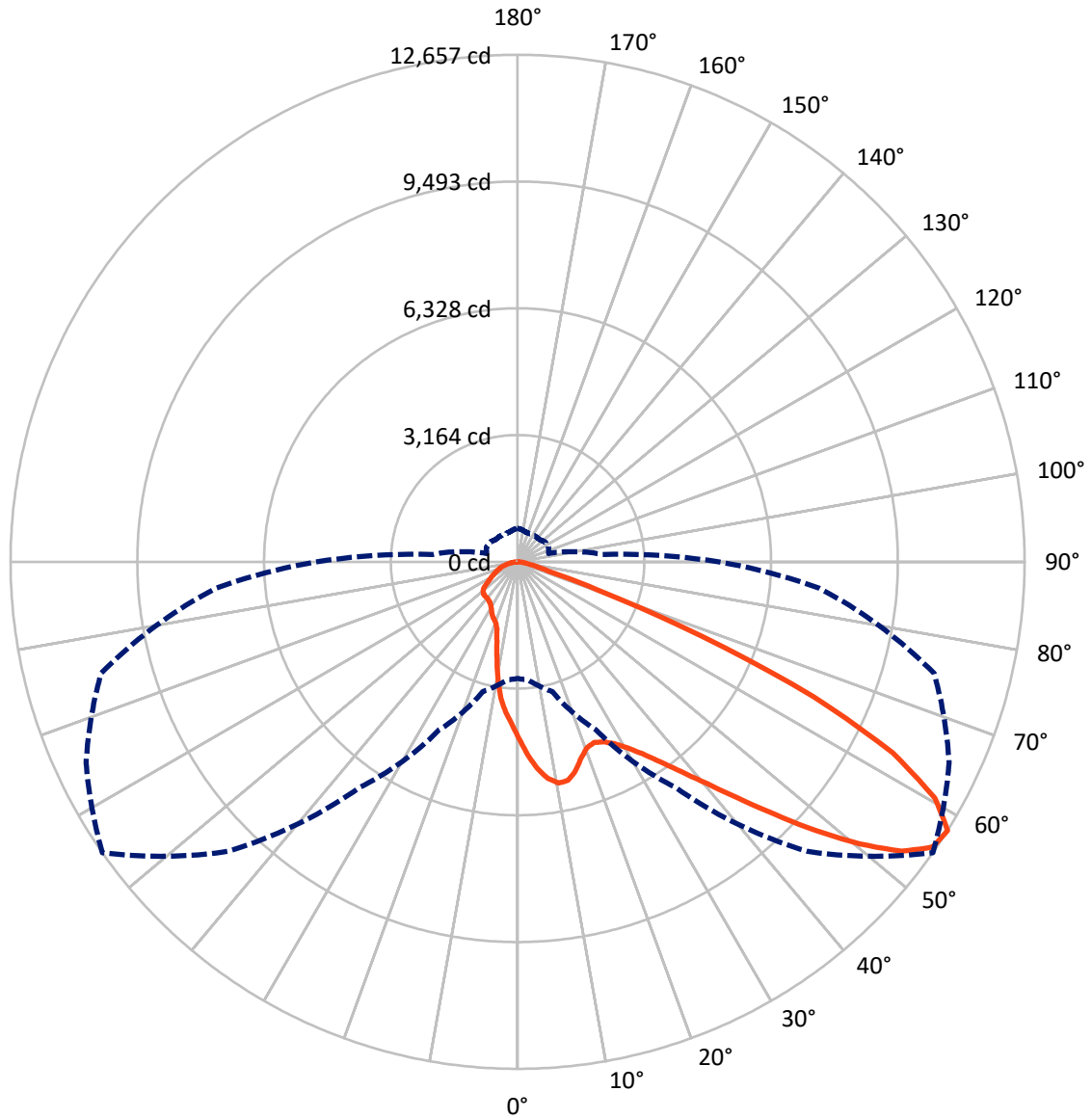
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P963996
CATALOG NUMBER: NAV-SB3B-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P963996
 CATALOG NUMBER: NAV-SB3B-730-U-AFL

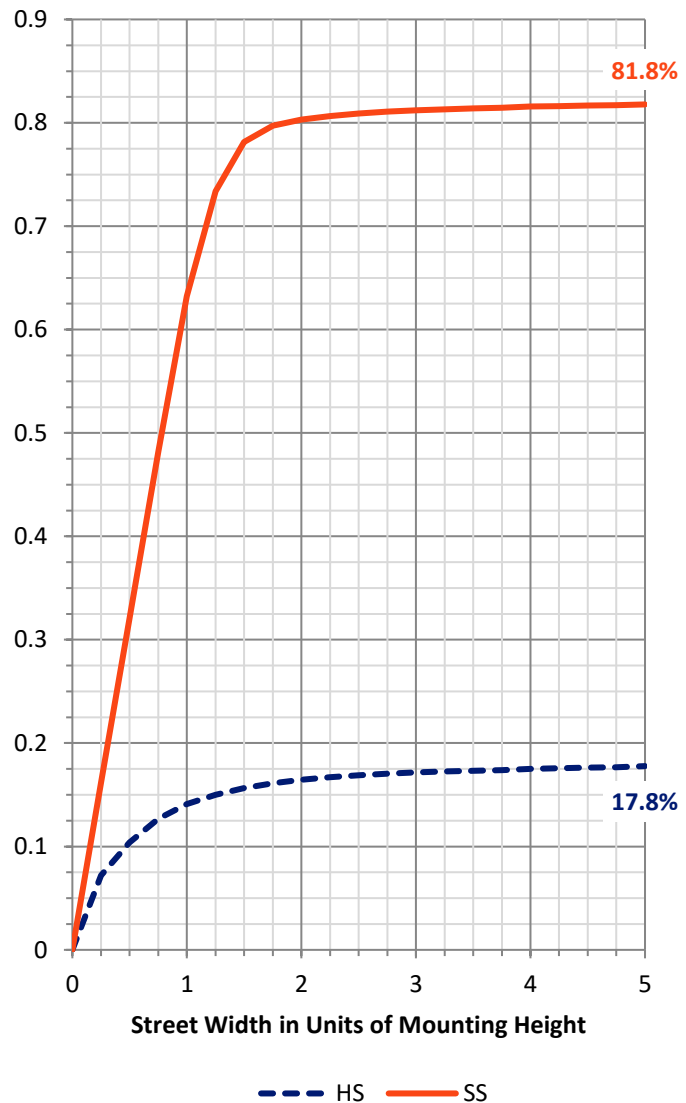
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3186.9	0.0	3186.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14425.7	0.0	14425.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	17612.6	0.0	17612.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.5	2.3
10°-20°	1033.6	5.9
20°-30°	1649.4	9.4
30°-40°	2611.4	14.8
40°-50°	3997.0	22.7
50°-60°	4281.1	24.3
60°-70°	2693.3	15.3
70°-80°	796.5	4.5
80°-90°	140.8	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°	17612.6	100.0
0°-180°	17612.6	100.0

Coefficient of Utilization



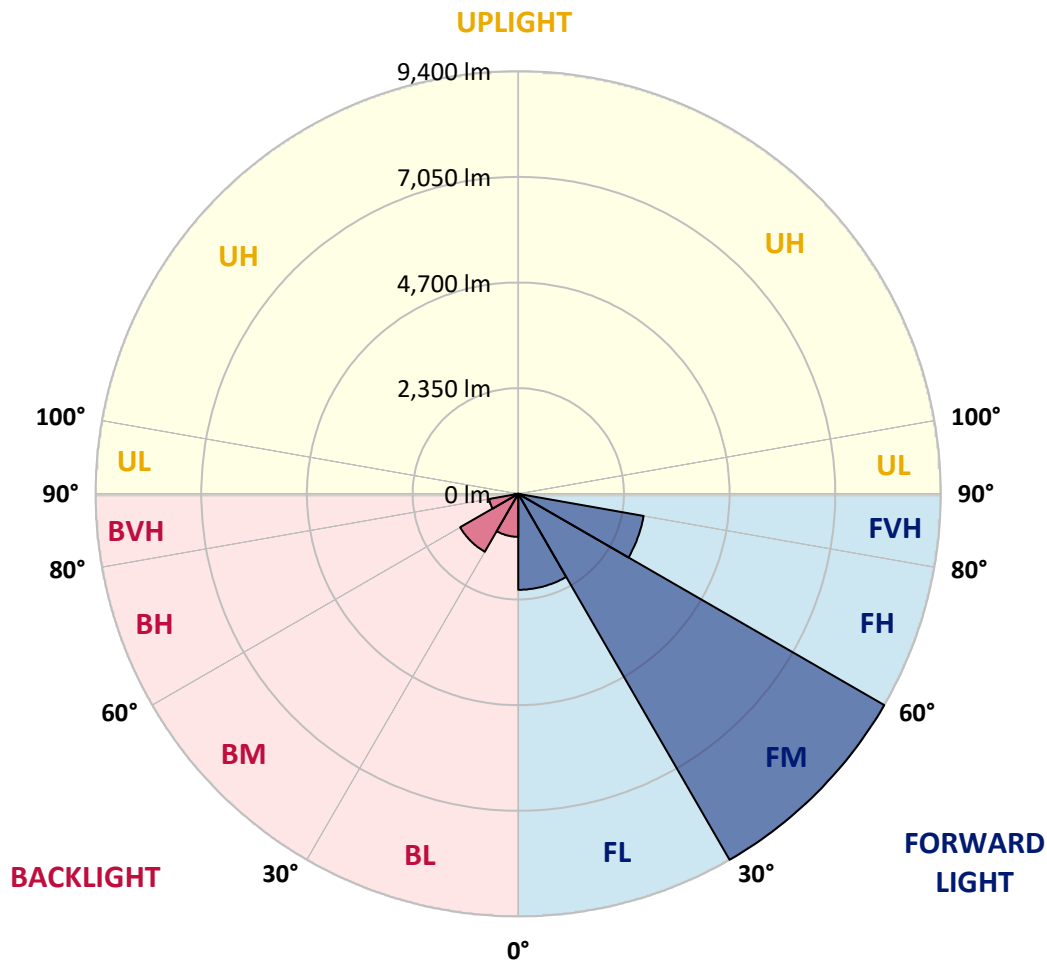
REPORT NUMBER: P963996
 CATALOG NUMBER: NAV-SB3B-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.6	12.1			
FM (30°-60°)	9400.0	53.4			
FH (60°-80°)	2831.6	16.1			G2/5000
FVH (80°-90°)	59.5	0.3			G1/100
BL (0°-30°)	957.9	5.4	B2/1000		
BM (30°-60°)	1489.5	8.5	B2/2500		
BH (60°-80°)	658.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	81.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P963996
 CATALOG NUMBER: NAV-SB3B-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1
2.5°	5063.2	5059.6	5079.6	5011.3	4964.9	4902.1	4819.2	4713.6	4599.8	4479.6	4427.7
5°	5519.4	5487.5	5508.5	5457.5	5406.5	5311.8	5188.9	5016.8	4806.4	4567.0	4439.6
7.5°	5447.5	5425.6	5479.3	5524.9	5563.1	5551.3	5461.1	5280.8	5009.5	4661.7	4476.9
10°	4867.5	4842.9	4918.5	5076.0	5307.2	5508.5	5617.7	5505.7	5217.1	4765.5	4513.3
12.5°	4355.7	4344.0	4394.0	4521.5	4778.2	5164.3	5597.7	5702.4	5432.9	4888.4	4562.5
15°	4137.3	4122.7	4154.5	4219.2	4383.1	4742.8	5415.6	5837.2	5645.0	5030.5	4640.8
17.5°	4089.0	4072.6	4086.3	4120.0	4225.6	4499.6	5140.6	5903.6	5866.3	5188.9	4706.3
20°	4178.2	4164.6	4166.4	4164.6	4238.4	4456.0	4949.4	5878.1	6059.3	5334.5	4770.0
22.5°	4394.0	4371.2	4372.1	4324.0	4363.9	4532.4	4899.3	5809.8	6231.4	5462.0	4818.3
25°	4745.4	4704.5	4712.6	4589.7	4578.9	4703.6	4977.6	5757.0	6402.6	5564.0	4827.4
27.5°	5226.2	5179.7	5155.2	4972.2	4884.7	4946.6	5137.0	5775.3	6564.6	5652.4	4804.7
30°	5827.1	5770.6	5720.6	5461.1	5302.7	5279.9	5384.6	5895.4	6755.9	5745.2	4765.5
32.5°	6563.7	6498.2	6407.1	6063.0	5839.8	5720.6	5705.2	6109.4	6979.8	5863.5	4745.4
35°	7440.5	7354.9	7225.6	6780.4	6498.2	6254.1	6127.6	6418.0	7286.6	6042.0	4768.2
37.5°	8343.7	8247.3	8128.9	7598.9	7252.1	6892.4	6642.9	6836.9	7695.5	6284.2	4828.4
40°	9176.8	9068.5	8958.3	8486.7	8114.3	7680.8	7273.9	7366.8	8195.3	6573.7	4930.2
42.5°	9668.5	9588.4	9546.4	9291.5	9003.8	8564.1	8058.8	7995.0	8757.1	6907.0	5046.8
45°	9646.6	9613.9	9743.1	9848.7	9780.4	9536.5	8978.3	8689.7	9320.6	7195.6	5154.3
47.5°	9131.3	9153.1	9441.8	10035.4	10296.7	10424.1	10025.4	9371.7	9810.5	7411.4	5202.5
50°	7729.1	7747.4	8415.7	9695.8	10429.7	11148.0	11064.3	10037.2	10190.2	7543.4	5191.6
52.5°	6619.2	6631.1	6917.9	8688.8	9990.8	11512.2	12000.3	10664.5	10467.9	7579.8	5130.6
55°	4985.8	5026.8	5348.2	6816.9	8849.0	11223.6	12570.2	11311.0	10643.6	7583.5	5066.9
57.5°	2912.6	2957.2	3354.2	4627.1	6877.9	10217.5	12656.7	11884.6	10762.9	7554.4	5028.6
60°	1426.7	1445.9	1618.9	2431.9	4241.0	8279.0	11961.1	12162.3	10829.3	7538.9	5026.8
62.5°	961.4	958.8	966.1	1200.1	2089.6	5319.0	10511.6	11676.1	10793.9	7479.6	5008.6
65°	826.8	816.7	789.4	842.2	1082.6	2432.8	8121.6	10224.8	10523.5	7331.2	4883.8
67.5°	714.7	715.7	716.6	700.2	773.1	1122.7	4963.0	8054.1	9552.9	6628.4	4403.1
70°	591.8	600.0	603.6	603.6	630.1	736.6	2118.7	5520.3	7535.2	5197.1	3546.4
72.5°	539.0	521.7	523.6	514.4	514.4	560.9	853.1	3129.3	4747.3	2923.6	2164.2
75°	439.7	450.7	452.5	446.2	425.2	427.9	506.2	1312.9	2031.3	1212.8	1069.8
77.5°	379.7	379.7	383.3	378.7	362.3	320.5	337.8	508.9	691.1	497.1	534.4
80°	305.0	304.1	319.6	328.7	303.2	236.8	215.8	281.4	306.9	218.5	277.7
82.5°	148.4	157.5	219.5	250.4	230.3	171.2	132.0	174.9	163.9	96.6	124.7
85°	86.5	81.9	98.3	139.3	132.0	94.7	63.8	91.0	85.6	49.2	50.1
87.5°	27.3	25.5	20.0	47.4	38.2	26.4	17.3	26.4	23.7	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P963996
 CATALOG NUMBER: NAV-SB3B-730-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1	4413.1
2.5°	4363.0	4255.6	4149.1	4051.7	3992.5	3954.2	3916.0	3873.3	3856.9	3832.3
5°	4319.3	4111.8	3927.0	3767.6	3622.9	3509.0	3394.3	3301.4	3259.5	3287.8
7.5°	4293.8	3993.4	3708.4	3416.1	3134.9	2909.9	2714.2	2576.6	2514.7	2530.2
10°	4271.1	3859.5	3425.2	2963.7	2559.4	2280.7	2080.4	1975.8	1936.6	1944.8
12.5°	4250.2	3709.4	3083.8	2476.5	2046.8	1862.8	1805.5	1806.5	1813.7	1819.2
15°	4246.5	3528.2	2702.3	2050.4	1770.0	1758.2	1820.1	1859.2	1880.2	1886.5
17.5°	4241.0	3311.5	2313.5	1759.9	1702.6	1782.8	1840.1	1865.6	1882.0	1882.9
20°	4219.2	3036.5	1954.8	1621.6	1688.1	1757.3	1792.7	1812.8	1826.4	1831.0
22.5°	4151.9	2730.6	1675.3	1559.6	1629.7	1685.3	1727.2	1750.0	1758.2	1763.6
25°	4030.7	2388.2	1482.3	1500.5	1548.8	1618.9	1652.5	1657.1	1654.4	1662.6
27.5°	3872.3	2021.3	1362.1	1420.3	1482.3	1542.3	1560.6	1557.9	1552.4	1561.5
30°	3681.1	1691.7	1285.7	1330.2	1414.9	1469.5	1485.9	1479.6	1468.6	1478.7
32.5°	3479.0	1422.2	1222.8	1267.4	1359.4	1413.1	1429.5	1423.1	1414.9	1423.1
35°	3290.6	1233.7	1164.5	1225.5	1315.7	1368.5	1389.4	1390.3	1390.3	1400.4
37.5°	3117.5	1123.5	1116.2	1199.1	1285.7	1332.9	1363.0	1364.8	1325.6	1328.4
40°	2957.2	1077.1	1094.4	1181.8	1256.4	1302.0	1303.8	1201.8	1130.0	1128.1
42.5°	2826.1	1068.0	1100.7	1180.0	1235.5	1237.4	1108.9	1029.7	1009.7	1010.6
45°	2703.2	1065.3	1115.3	1180.0	1204.6	1068.9	982.5	961.4	963.3	970.6
47.5°	2565.8	1054.3	1118.1	1163.6	1115.3	950.6	925.1	915.9	912.4	914.1
50°	2415.5	1015.2	1083.5	1130.8	962.4	899.5	867.7	865.0	869.5	872.3
52.5°	2257.2	951.5	1024.3	1071.6	892.3	855.0	819.5	825.8	845.8	852.2
55°	2153.3	876.8	946.0	953.2	843.1	813.0	783.0	797.6	835.0	846.8
57.5°	2126.0	797.6	856.8	848.6	780.3	776.6	758.4	771.2	818.6	835.8
60°	2117.8	726.5	769.4	763.0	719.2	736.6	732.1	738.4	754.8	760.2
62.5°	2054.1	670.1	691.1	681.9	664.6	694.7	705.6	692.0	704.7	711.0
65°	1891.9	624.6	614.6	608.2	615.5	642.8	664.6	637.3	649.1	667.4
67.5°	1624.3	562.7	535.4	542.6	565.4	579.9	608.2	577.3	587.2	618.2
70°	1313.8	484.4	459.8	480.7	502.6	532.6	537.2	516.3	540.0	574.5
72.5°	929.6	405.2	387.9	430.7	438.0	477.1	467.1	457.0	489.8	501.6
75°	644.6	326.9	316.8	349.6	376.1	409.7	402.4	414.3	483.5	488.9
77.5°	408.0	254.0	247.6	268.5	305.0	342.3	354.1	488.9	825.8	858.5
80°	236.8	189.4	182.1	198.4	230.3	265.0	341.4	600.0	544.5	538.1
82.5°	132.0	130.2	121.1	125.7	153.9	191.2	482.6	422.5	343.3	354.1
85°	61.9	76.5	65.6	62.8	86.5	224.0	322.4	241.3	160.2	156.6
87.5°	16.4	14.6	14.6	16.4	36.4	193.0	128.3	102.9	61.0	59.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)