

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: P964461

Luminaire Tested: **NAV-SB3C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964461
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-SB3C-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19349.9 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

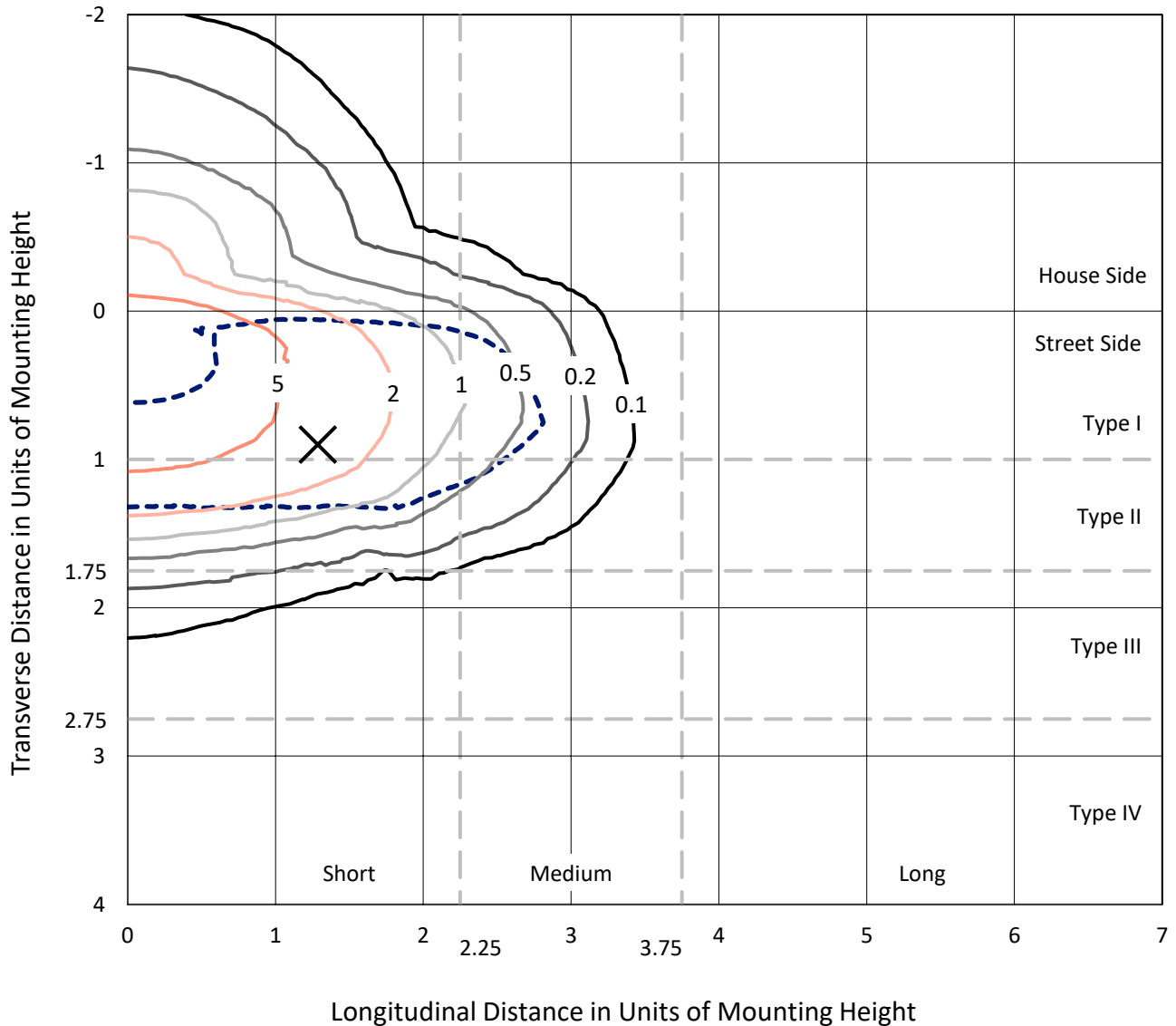
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

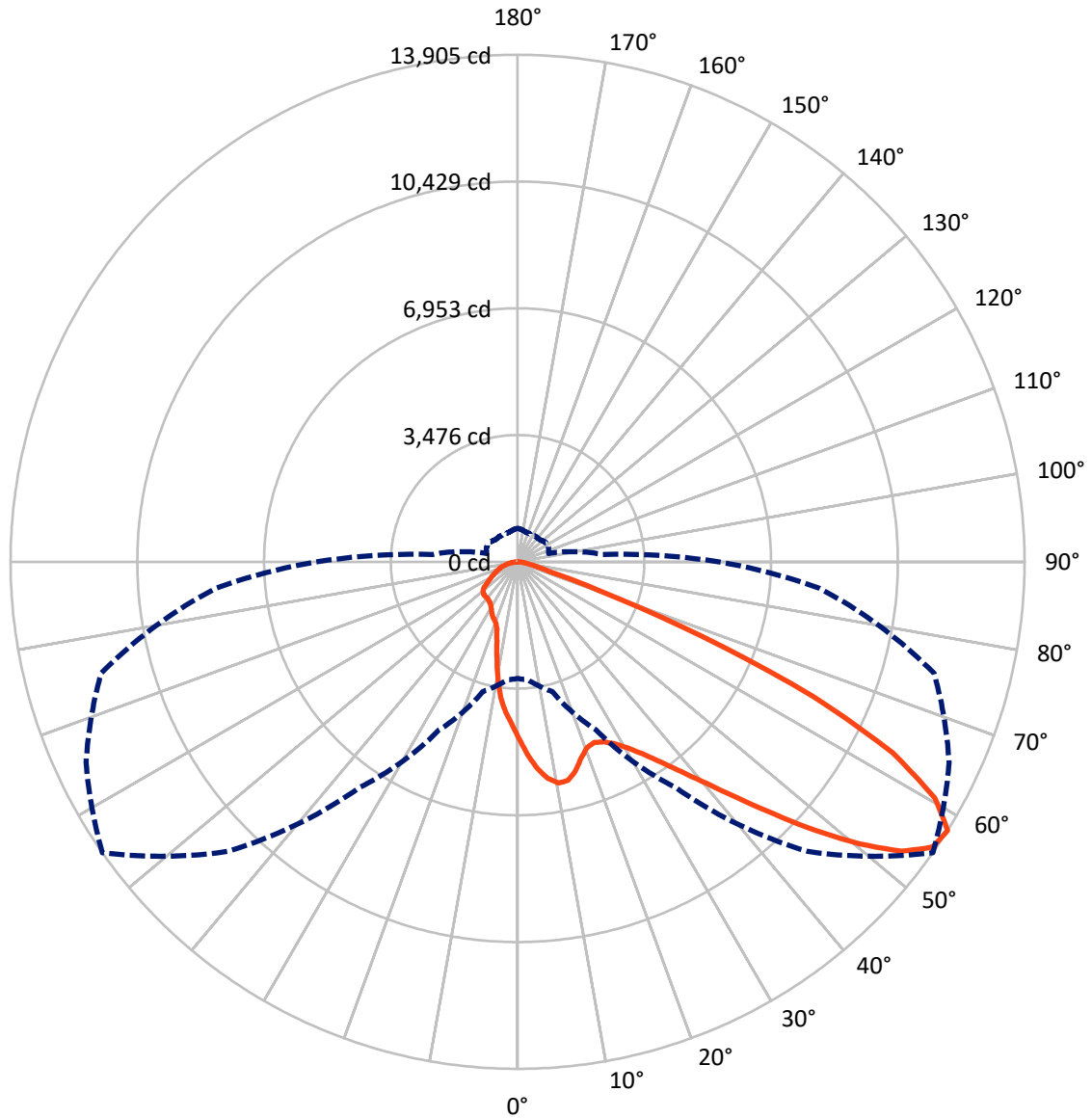
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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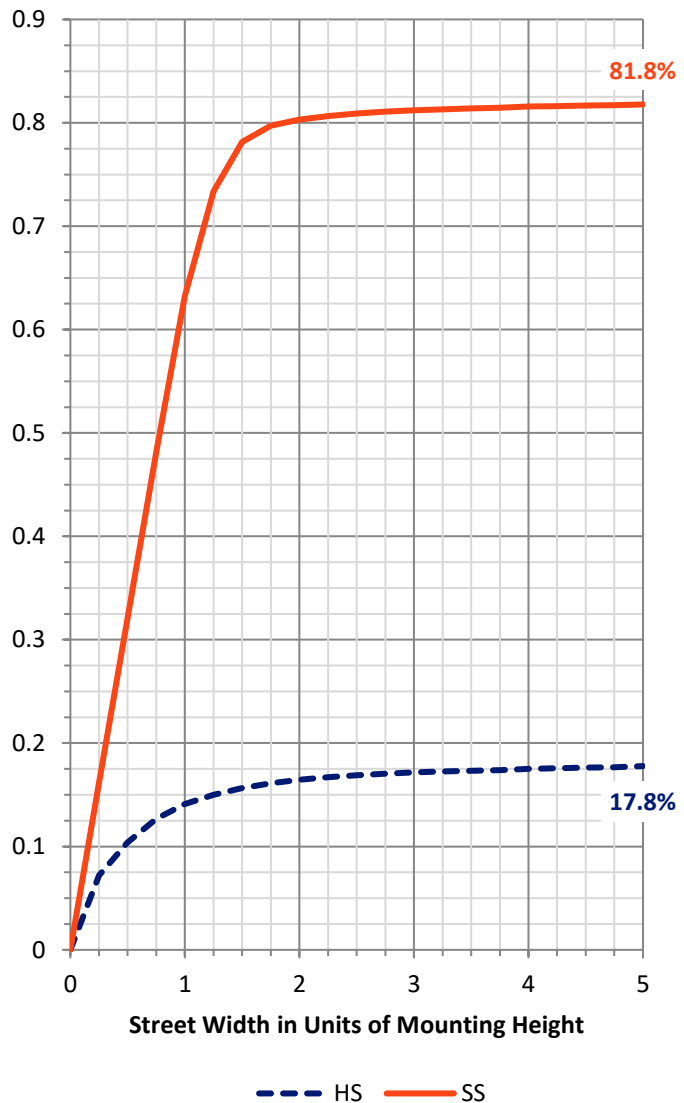
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3501.3	0.0	3501.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15848.7	0.0	15848.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	19349.9	0.0	19349.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.9	2.3
10°-20°	1135.6	5.9
20°-30°	1812.1	9.4
30°-40°	2869.0	14.8
40°-50°	4391.3	22.7
50°-60°	4703.4	24.3
60°-70°	2959.0	15.3
70°-80°	875.0	4.5
80°-90°	154.7	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°	19349.9	100.0
0°-180°	19349.9	100.0

Coefficient of Utilization



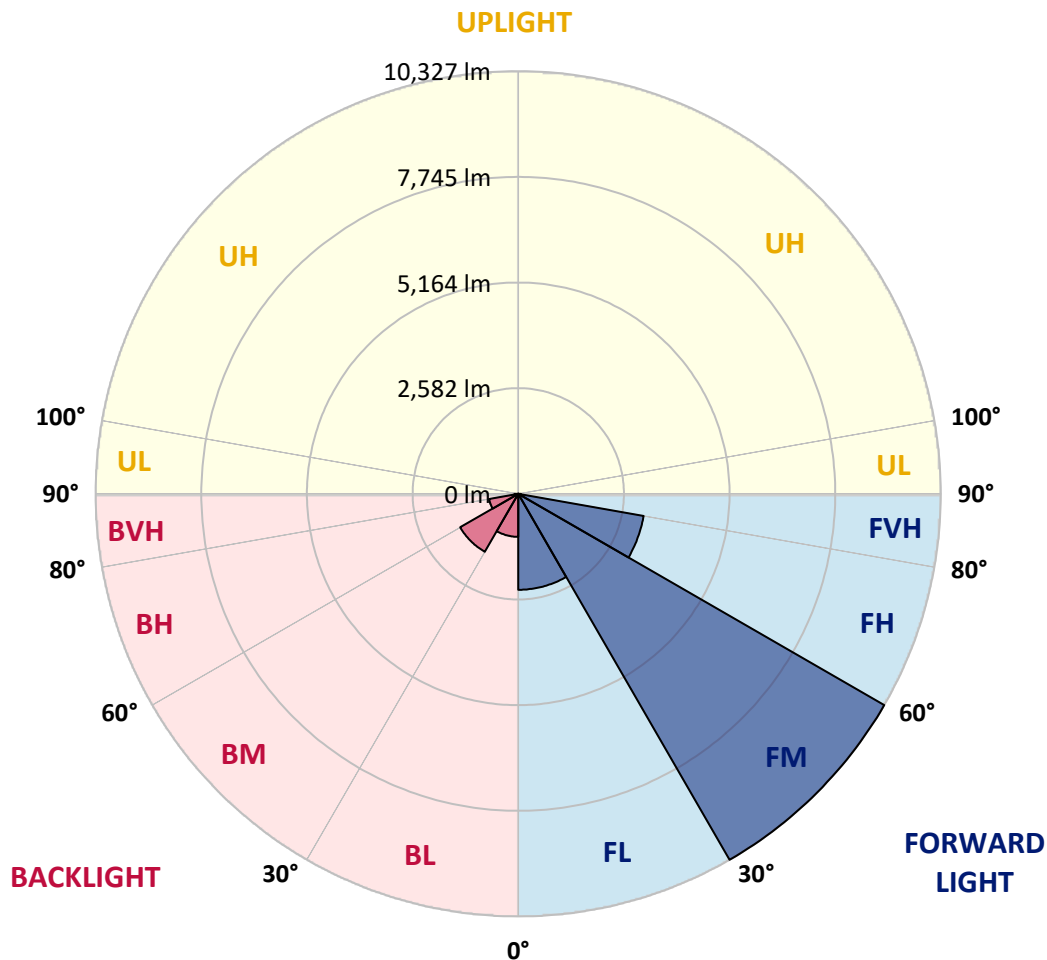
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.2	12.1			
FM (30°-60°)	10327.2	53.4			
FH (60°-80°)	3110.9	16.1			G2/5000
FVH (80°-90°)	65.4	0.3			G1/100
BL (0°-30°)	1052.4	5.4	B3/2500		
BM (30°-60°)	1636.5	8.5	B2/2500		
BH (60°-80°)	723.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	89.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5
2.5°	5562.7	5558.7	5580.7	5505.7	5454.6	5385.7	5294.6	5178.6	5053.6	4921.5	4864.4
5°	6063.8	6028.8	6051.8	5995.8	5939.8	5835.7	5700.7	5511.6	5280.6	5017.5	4877.5
7.5°	5984.8	5960.8	6019.8	6069.8	6111.9	6098.9	5999.8	5801.8	5503.6	5121.5	4918.5
10°	5347.6	5320.6	5403.6	5576.7	5830.8	6051.8	6171.8	6048.8	5731.7	5235.6	4958.5
12.5°	4785.4	4772.4	4827.4	4967.5	5249.6	5673.7	6149.9	6264.9	5968.8	5370.6	5012.6
15°	4545.4	4529.4	4564.4	4635.4	4815.4	5210.6	5949.8	6412.9	6201.9	5526.7	5098.6
17.5°	4492.4	4474.3	4489.4	4526.4	4642.4	4943.5	5647.7	6486.0	6445.0	5700.7	5170.6
20°	4590.4	4575.4	4577.3	4575.4	4656.4	4895.5	5437.6	6457.9	6657.1	5860.7	5240.6
22.5°	4827.4	4802.4	4803.5	4750.5	4794.4	4979.6	5382.6	6383.0	6846.1	6000.9	5293.6
25°	5213.6	5168.6	5177.6	5042.5	5030.5	5167.5	5468.7	6325.0	7034.2	6112.9	5303.7
27.5°	5741.7	5690.7	5663.7	5462.6	5366.6	5434.7	5643.8	6345.0	7212.2	6209.9	5278.6
30°	6401.9	6339.9	6284.9	5999.8	5825.8	5800.8	5915.8	6477.0	7422.2	6312.0	5235.6
32.5°	7211.2	7139.1	7039.1	6661.1	6416.0	6284.9	6267.9	6712.0	7668.3	6441.9	5213.6
35°	8174.5	8080.5	7938.4	7449.3	7139.1	6871.1	6732.0	7051.2	8005.5	6638.0	5238.6
37.5°	9166.8	9060.8	8930.7	8348.5	7967.4	7572.3	7298.2	7511.3	8454.6	6904.1	5304.6
40°	10082.1	9963.0	9841.9	9323.8	8914.7	8438.5	7991.4	8093.5	9003.7	7222.2	5416.6
42.5°	10622.2	10534.2	10488.2	10208.1	9892.0	9408.9	8853.6	8783.6	9621.0	7588.3	5544.6
45°	10598.2	10562.2	10704.3	10820.3	10745.3	10477.1	9864.0	9546.8	10240.1	7905.4	5662.7
47.5°	10032.1	10056.1	10373.1	11025.3	11312.4	11452.4	11014.3	10296.1	10778.3	8142.5	5715.7
50°	8491.6	8511.6	9245.8	10652.2	11458.5	12247.7	12155.7	11027.4	11195.4	8287.5	5703.7
52.5°	7272.2	7285.2	7600.3	9545.9	10976.3	12647.8	13184.0	11716.6	11500.5	8327.5	5636.7
55°	5477.7	5522.7	5875.8	7489.3	9721.9	12330.7	13810.2	12426.8	11693.5	8331.5	5566.7
57.5°	3199.9	3248.9	3685.1	5083.6	7556.3	11225.4	13905.3	13057.0	11824.6	8299.5	5524.6
60°	1567.4	1588.4	1778.6	2671.8	4659.4	9095.7	13141.0	13362.0	11897.6	8282.5	5522.7
62.5°	1056.4	1053.3	1061.3	1318.4	2295.7	5843.7	11548.5	12827.9	11858.6	8217.5	5502.7
65°	908.3	897.3	867.3	925.3	1189.4	2672.8	8922.7	11233.4	11561.5	8054.4	5365.7
67.5°	785.3	786.3	787.2	769.3	849.2	1233.4	5452.7	8848.7	10495.2	7282.2	4837.5
70°	650.2	659.2	663.2	663.2	692.2	809.2	2327.7	6064.8	8278.5	5709.8	3896.2
72.5°	592.1	573.2	575.1	565.2	565.2	616.2	937.3	3438.1	5215.6	3211.9	2377.7
75°	483.2	495.2	497.1	490.2	467.1	470.2	556.2	1442.5	2231.6	1332.4	1175.4
77.5°	417.2	417.2	421.2	416.2	398.1	352.1	371.2	559.1	759.2	546.1	587.2
80°	335.1	334.2	351.1	361.1	333.1	260.0	237.1	309.1	337.1	240.1	305.1
82.5°	163.1	173.0	241.1	275.1	253.1	188.1	145.0	192.1	180.1	106.0	137.0
85°	95.0	90.0	108.0	153.0	145.0	104.0	70.0	100.0	94.0	54.0	55.0
87.5°	30.0	28.0	22.0	52.0	42.0	29.0	19.0	29.0	26.0	12.0	12.0
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°	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5
2.5°	4793.4	4675.4	4558.4	4451.4	4386.3	4344.4	4302.3	4255.3	4237.2	4210.3
5°	4745.4	4517.4	4314.3	4139.3	3980.2	3855.1	3729.2	3627.1	3581.0	3612.1
7.5°	4717.5	4387.3	4074.3	3753.1	3444.0	3197.0	2981.9	2830.8	2762.9	2779.8
10°	4692.4	4240.3	3763.2	3256.0	2811.9	2505.7	2285.6	2170.6	2127.7	2136.6
12.5°	4669.4	4075.2	3388.0	2720.9	2248.6	2046.6	1983.6	1984.6	1992.6	1998.6
15°	4665.4	3876.1	2968.9	2252.6	1944.6	1931.6	1999.6	2042.6	2065.6	2072.7
17.5°	4659.4	3638.1	2541.8	1933.6	1870.5	1958.6	2021.6	2049.6	2067.6	2068.7
20°	4635.4	3336.0	2147.7	1781.6	1854.5	1930.6	1969.6	1991.6	2006.6	2011.6
22.5°	4561.4	2999.9	1840.6	1713.5	1790.6	1851.6	1897.6	1922.6	1931.6	1937.6
25°	4428.3	2623.8	1628.5	1648.5	1701.5	1778.6	1815.6	1820.5	1817.5	1826.6
27.5°	4254.3	2220.7	1496.5	1560.5	1628.5	1694.5	1714.5	1711.5	1705.5	1715.5
30°	4044.2	1858.5	1412.4	1461.4	1554.5	1614.5	1632.5	1625.4	1613.5	1624.5
32.5°	3822.1	1562.5	1343.4	1392.5	1493.4	1552.5	1570.5	1563.4	1554.5	1563.4
35°	3615.1	1355.5	1279.4	1346.4	1445.5	1503.5	1526.4	1527.5	1527.5	1538.4
37.5°	3425.0	1234.4	1226.4	1317.4	1412.4	1464.4	1497.4	1499.5	1456.4	1459.4
40°	3248.9	1183.4	1202.3	1298.4	1380.4	1430.4	1432.4	1320.4	1241.4	1239.3
42.5°	3104.9	1173.3	1209.4	1296.4	1357.4	1359.5	1218.4	1131.3	1109.4	1110.4
45°	2969.9	1170.3	1225.4	1296.4	1323.4	1174.3	1079.3	1056.4	1058.3	1066.3
47.5°	2818.9	1158.4	1228.4	1278.4	1225.4	1044.3	1016.3	1006.3	1002.3	1004.3
50°	2653.8	1115.3	1190.3	1242.4	1057.3	988.3	953.2	950.3	955.3	958.3
52.5°	2479.8	1045.3	1125.3	1177.3	980.3	939.3	900.3	907.2	929.3	936.2
55°	2365.7	963.3	1039.4	1047.3	926.3	893.3	860.3	876.3	917.3	930.3
57.5°	2335.7	876.3	941.3	932.2	857.3	853.2	833.2	847.3	899.2	918.3
60°	2326.8	798.3	845.2	838.2	790.3	809.2	804.2	811.3	829.2	835.3
62.5°	2256.6	736.3	759.2	749.3	730.2	763.2	775.2	760.2	774.3	781.3
65°	2078.6	686.2	675.2	668.2	676.2	706.2	730.2	700.2	713.2	733.2
67.5°	1784.5	618.2	588.1	596.1	621.2	637.2	668.2	634.2	645.2	679.2
70°	1443.4	532.2	505.1	528.2	552.2	585.2	590.2	567.1	593.2	631.2
72.5°	1021.3	445.2	426.1	473.1	481.1	524.2	513.1	502.1	538.1	551.1
75°	708.2	359.2	348.1	384.1	413.1	450.2	442.2	455.1	531.2	537.2
77.5°	448.1	279.1	272.0	295.1	335.1	376.1	389.1	537.2	907.2	943.3
80°	260.0	208.1	200.1	218.0	253.1	291.1	375.2	659.2	598.2	591.2
82.5°	145.0	143.1	133.0	138.1	169.0	210.0	530.1	464.1	377.1	389.1
85°	68.1	84.0	72.1	69.0	95.0	246.1	354.1	265.1	176.1	172.1
87.5°	18.0	16.0	16.0	18.0	40.0	212.1	141.0	113.1	67.0	65.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)