

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: P962477

Luminaire Tested: **NAV-SB2C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962477
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-SB2C-740-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16517.9 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

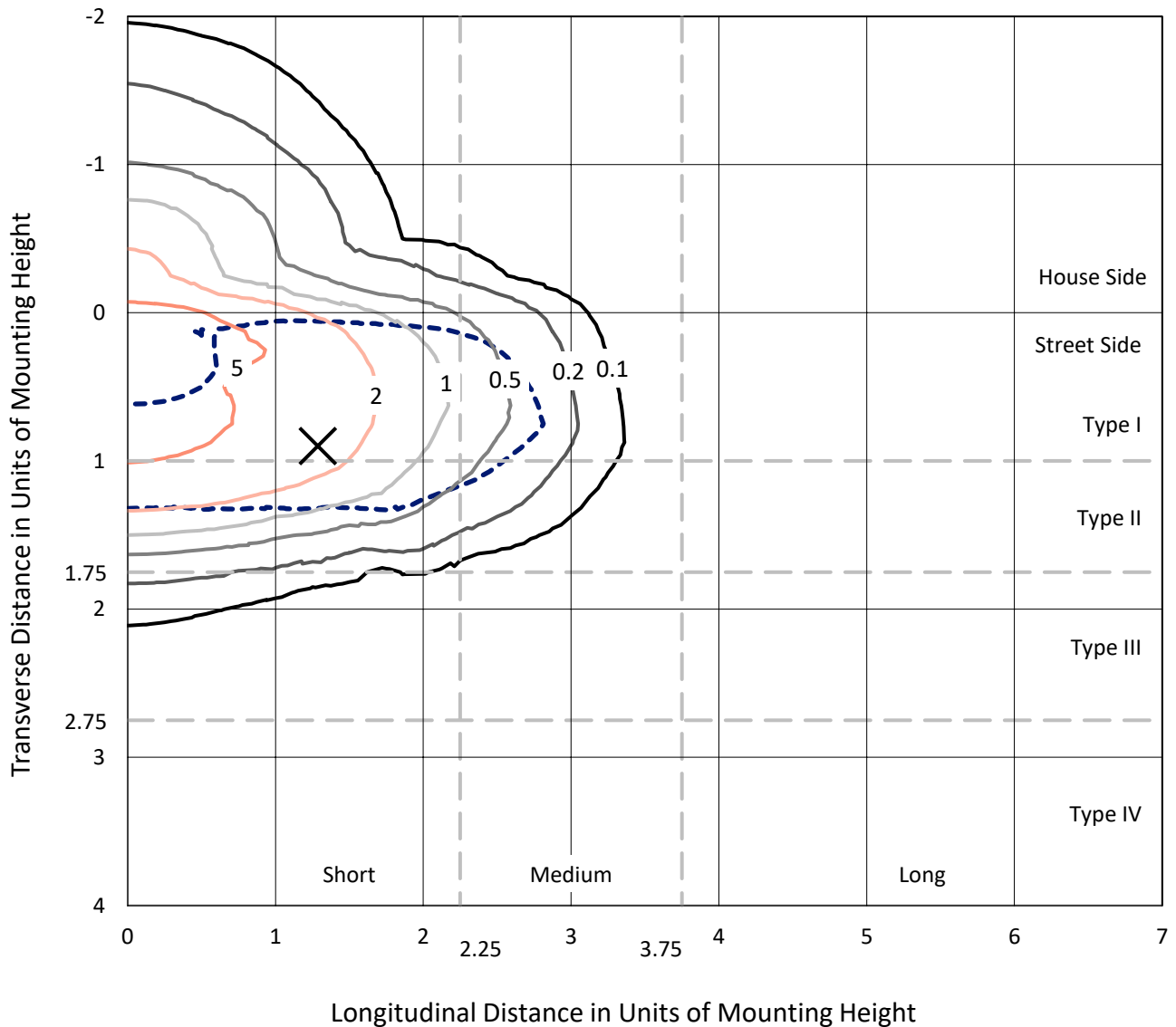
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

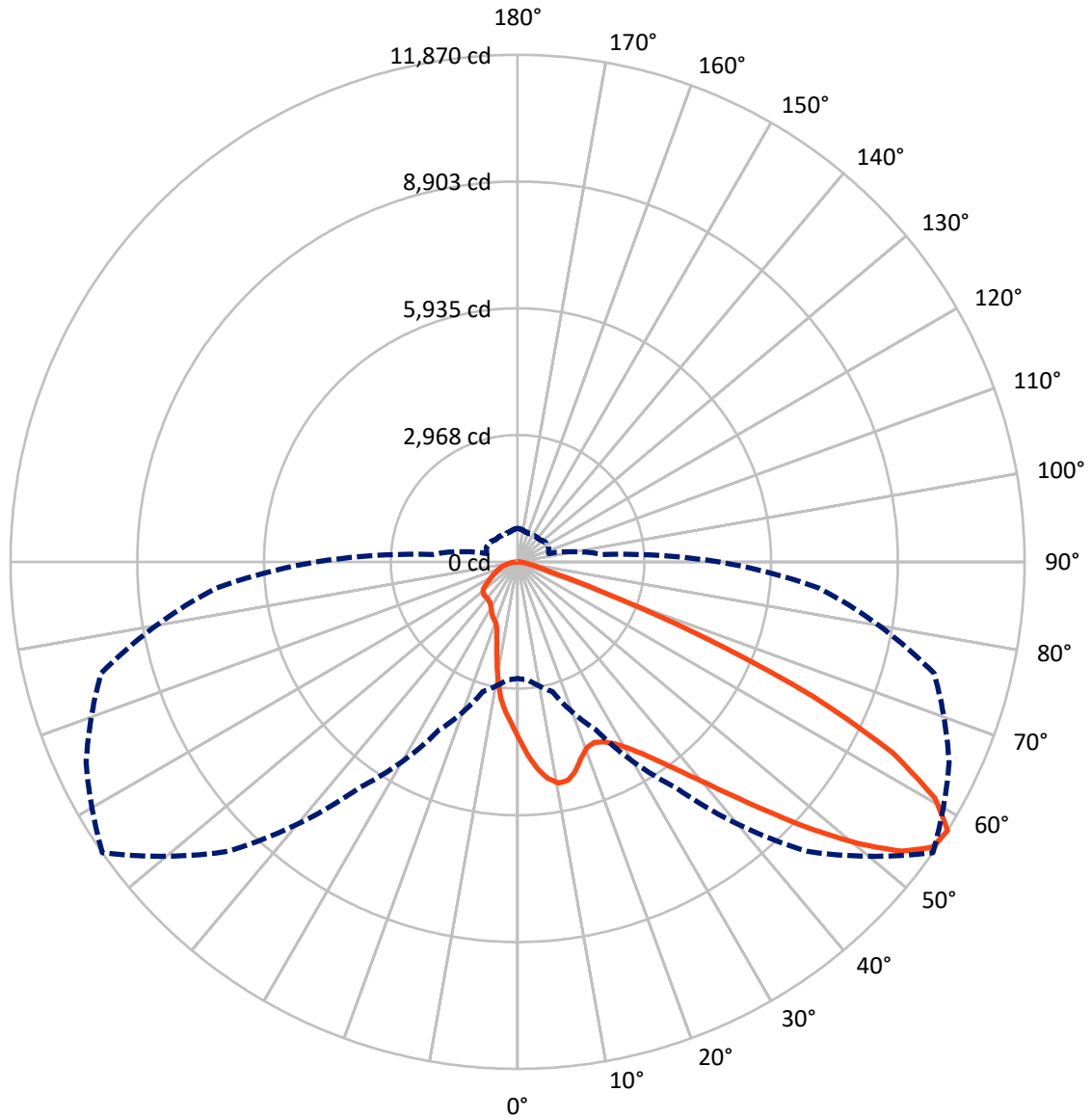
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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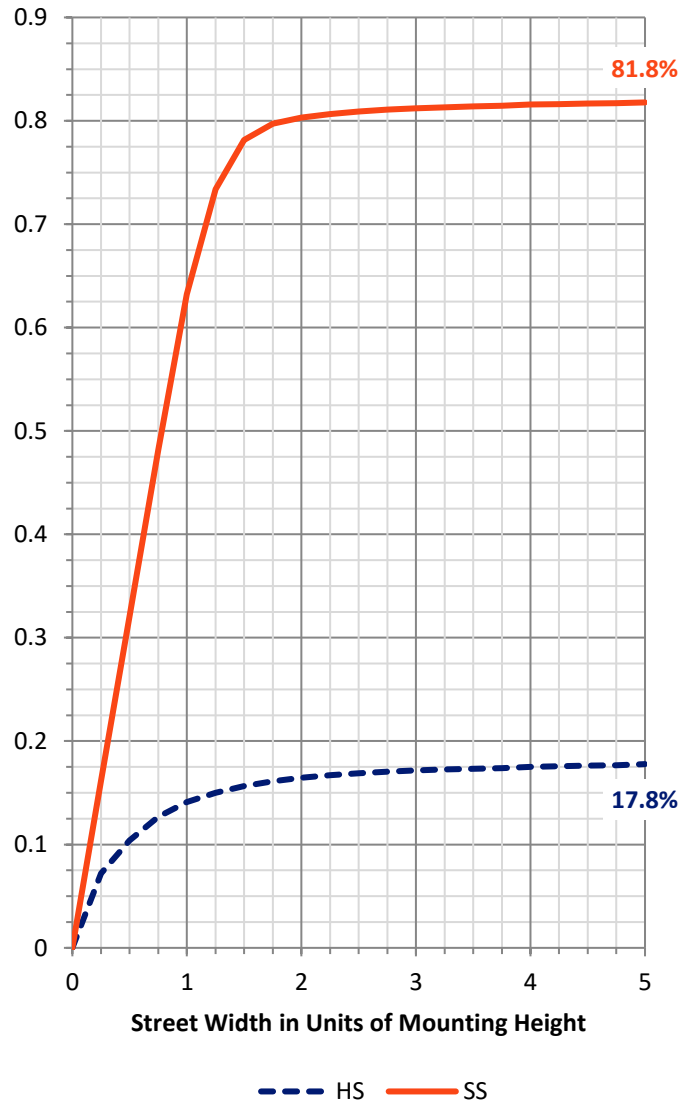
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2988.8	0.0	2988.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13529.0	0.0	13529.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	16517.9	0.0	16517.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.1	2.3
10°-20°	969.4	5.9
20°-30°	1546.9	9.4
30°-40°	2449.1	14.8
40°-50°	3748.6	22.7
50°-60°	4015.0	24.3
60°-70°	2525.9	15.3
70°-80°	747.0	4.5
80°-90°	132.1	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°	16517.9	100.0
0°-180°	16517.9	100.0

Coefficient of Utilization

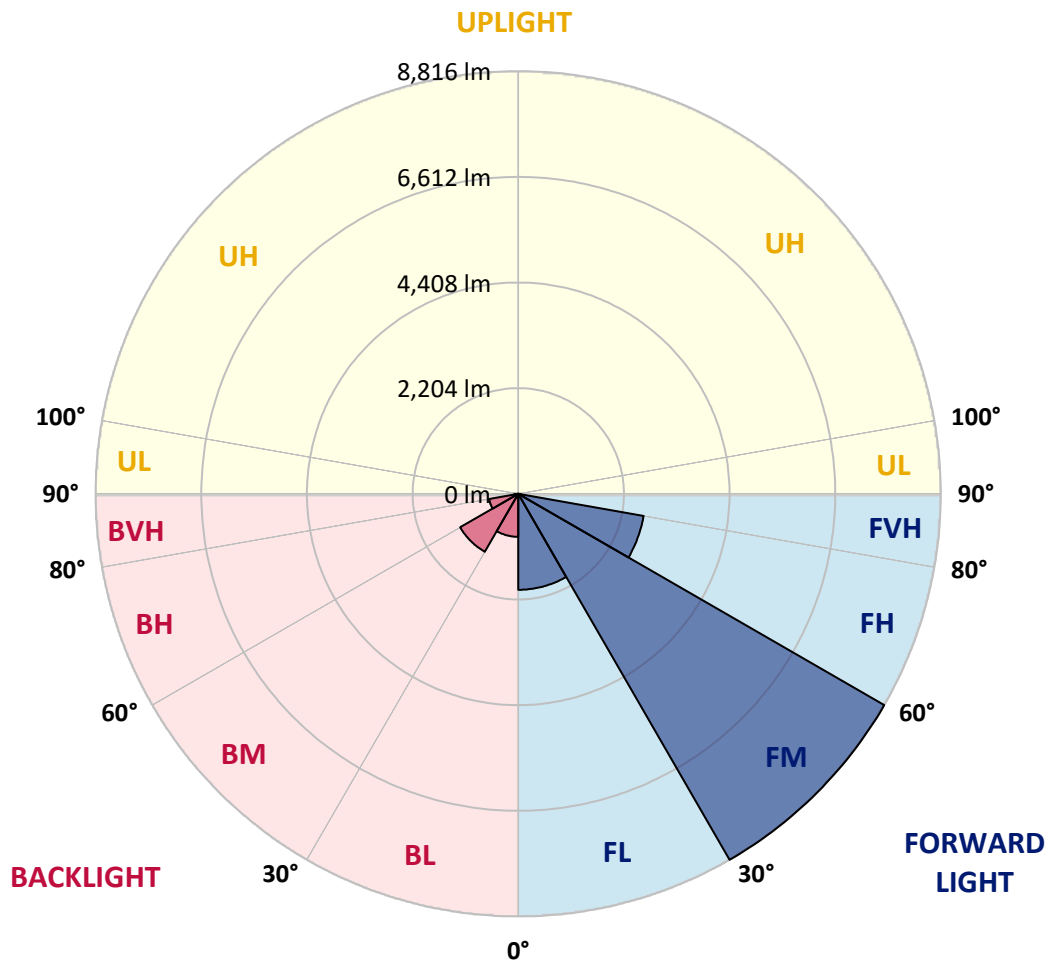


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.0	12.1			
FM (30°-60°)	8815.7	53.4			
FH (60°-80°)	2655.6	16.1			G2/5000
FVH (80°-90°)	55.8	0.3			G1/100
BL (0°-30°)	898.3	5.4	B2/1000		
BM (30°-60°)	1396.9	8.5	B2/2500		
BH (60°-80°)	617.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	76.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8
2.5°	4748.5	4745.1	4763.9	4699.8	4656.3	4597.4	4519.6	4420.6	4313.9	4201.2	4152.5
5°	5176.4	5146.4	5166.1	5118.2	5070.5	4981.6	4866.4	4705.0	4507.7	4283.2	4163.7
7.5°	5108.9	5088.4	5138.7	5181.5	5217.4	5206.2	5121.7	4952.6	4698.2	4371.9	4198.6
10°	4564.9	4541.9	4612.8	4760.5	4977.4	5166.1	5268.5	5163.5	4892.8	4469.3	4232.7
12.5°	4085.0	4074.0	4120.9	4240.4	4481.3	4843.3	5249.7	5347.9	5095.2	4584.6	4278.9
15°	3880.1	3866.4	3896.3	3957.0	4110.7	4448.0	5079.0	5474.3	5294.1	4717.8	4352.4
17.5°	3834.8	3819.5	3832.3	3863.8	3963.0	4219.9	4821.1	5536.6	5501.7	4866.4	4413.8
20°	3918.6	3905.8	3907.4	3905.8	3974.8	4179.0	4641.8	5512.8	5682.7	5003.0	4473.6
22.5°	4120.9	4099.6	4100.4	4055.2	4092.7	4250.7	4594.9	5448.7	5844.0	5122.5	4518.8
25°	4450.5	4412.1	4419.8	4304.5	4294.2	4411.2	4668.3	5399.2	6004.7	5218.2	4527.3
27.5°	4901.3	4857.8	4834.7	4663.1	4581.1	4639.3	4817.7	5416.3	6156.6	5301.0	4506.0
30°	5465.0	5412.0	5365.1	5121.7	4973.1	4951.8	5050.0	5529.0	6335.9	5388.1	4469.3
32.5°	6155.7	6094.2	6008.9	5686.1	5476.9	5365.1	5350.5	5729.6	6546.0	5499.1	4450.5
35°	6978.1	6897.7	6776.6	6359.0	6094.2	5865.5	5746.8	6019.1	6833.8	5666.5	4471.9
37.5°	7825.2	7734.6	7623.6	7126.6	6801.3	6464.0	6230.1	6411.9	7217.1	5893.6	4528.2
40°	8606.4	8504.8	8401.5	7959.2	7609.9	7203.5	6821.8	6908.9	7686.0	6165.2	4623.9
42.5°	9067.6	8992.4	8953.2	8714.0	8444.2	8031.8	7557.8	7498.1	8212.8	6477.7	4733.1
45°	9047.1	9016.3	9137.6	9236.6	9172.6	8943.7	8420.3	8149.6	8741.3	6748.4	4833.9
47.5°	8563.8	8584.3	8854.9	9411.7	9656.7	9776.2	9402.2	8789.2	9200.7	6950.7	4879.2
50°	7248.7	7265.8	7892.6	9093.2	9781.4	10455.1	10376.6	9413.4	9556.8	7074.6	4869.0
52.5°	6207.8	6219.0	6487.9	8148.7	9369.8	10796.7	11254.4	10001.7	9817.2	7108.7	4811.8
55°	4675.9	4714.4	5015.8	6393.1	8299.0	10526.0	11788.9	10607.9	9982.1	7112.1	4751.9
57.5°	2731.6	2773.4	3145.7	4339.5	6450.3	9582.4	11870.0	11146.0	10093.9	7084.8	4716.1
60°	1338.0	1356.0	1518.2	2280.7	3977.4	7764.5	11217.7	11406.4	10156.2	7070.2	4714.4
62.5°	901.7	899.1	906.0	1125.4	1959.7	4988.5	9858.2	10950.4	10123.0	7014.8	4697.3
65°	775.3	766.0	740.4	789.9	1015.3	2281.6	7616.8	9589.3	9869.3	6875.6	4580.3
67.5°	670.3	671.2	672.0	656.6	725.0	1052.9	4654.6	7553.5	8959.1	6216.4	4129.4
70°	555.0	562.7	566.1	566.1	590.9	690.8	1987.1	5177.2	7066.9	4874.1	3325.9
72.5°	505.5	489.2	491.0	482.5	482.5	526.0	800.1	2934.9	4452.2	2741.9	2029.7
75°	412.5	422.7	424.4	418.4	398.7	401.3	474.8	1231.3	1905.1	1137.4	1003.4
77.5°	356.1	356.1	359.5	355.3	339.9	300.5	316.8	477.3	648.1	466.3	501.2
80°	286.1	285.2	299.7	308.2	284.3	222.0	202.3	263.8	287.7	204.9	260.5
82.5°	139.2	147.7	205.8	234.8	216.1	160.5	123.8	163.9	153.8	90.5	117.0
85°	81.1	76.9	92.2	130.7	123.8	88.8	59.8	85.4	80.3	46.1	46.9
87.5°	25.6	23.9	18.8	44.4	35.9	24.8	16.2	24.8	22.2	10.2	10.2
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°	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8	4138.8
2.5°	4091.9	3991.1	3891.2	3799.9	3744.3	3708.4	3672.6	3632.5	3617.1	3594.1
5°	4050.9	3856.2	3682.8	3533.4	3397.7	3291.0	3183.3	3096.2	3057.0	3083.4
7.5°	4027.0	3745.2	3477.9	3203.8	2940.0	2729.1	2545.5	2416.5	2358.4	2373.0
10°	4005.6	3619.7	3212.4	2779.4	2400.3	2139.0	1951.2	1853.0	1816.2	1823.9
12.5°	3986.0	3478.7	2892.1	2322.6	1919.5	1747.1	1693.3	1694.1	1701.0	1706.1
15°	3982.5	3308.9	2534.4	1923.0	1660.0	1648.9	1706.9	1743.6	1763.3	1769.3
17.5°	3977.4	3105.6	2169.7	1650.6	1596.7	1672.0	1725.7	1749.7	1765.0	1765.9
20°	3957.0	2847.8	1833.3	1520.8	1583.1	1648.0	1681.3	1700.1	1712.9	1717.2
22.5°	3893.8	2560.9	1571.2	1462.8	1528.5	1580.6	1619.8	1641.2	1648.9	1654.0
25°	3780.2	2239.7	1390.1	1407.2	1452.5	1518.2	1549.8	1554.1	1551.5	1559.2
27.5°	3631.7	1895.6	1277.5	1332.1	1390.1	1446.5	1463.6	1461.0	1455.9	1464.4
30°	3452.3	1586.5	1205.7	1247.5	1327.0	1378.2	1393.6	1387.5	1377.3	1386.7
32.5°	3262.8	1333.8	1146.8	1188.6	1274.9	1325.2	1340.6	1334.7	1327.0	1334.7
35°	3086.0	1157.0	1092.1	1149.3	1233.9	1283.4	1303.1	1303.9	1303.9	1313.3
37.5°	2923.7	1053.7	1046.8	1124.6	1205.7	1250.1	1278.3	1280.0	1243.3	1245.9
40°	2773.4	1010.1	1026.4	1108.3	1178.3	1221.1	1222.8	1127.2	1059.6	1058.0
42.5°	2650.5	1001.6	1032.4	1106.7	1158.8	1160.4	1040.1	965.8	947.0	947.8
45°	2535.2	999.1	1046.0	1106.7	1129.8	1002.4	921.4	901.7	903.4	910.3
47.5°	2406.3	988.8	1048.6	1091.3	1046.0	891.4	867.6	859.1	855.6	857.3
50°	2265.4	952.1	1016.2	1060.6	902.6	843.7	813.7	811.2	815.5	818.1
52.5°	2116.8	892.4	960.6	1005.0	836.8	801.9	768.5	774.5	793.2	799.3
55°	2019.5	822.3	887.2	894.0	790.7	762.5	734.3	748.0	783.0	794.2
57.5°	1993.8	748.0	803.5	795.8	731.7	728.4	711.2	723.2	767.6	783.9
60°	1986.1	681.4	721.5	715.6	674.6	690.8	686.5	692.5	707.9	713.0
62.5°	1926.4	628.4	648.1	639.6	623.3	651.5	661.7	648.9	660.9	666.9
65°	1774.4	585.8	576.4	570.4	577.3	602.8	623.3	597.7	608.8	625.9
67.5°	1523.4	527.7	502.0	508.9	530.2	544.0	570.4	541.4	550.7	579.8
70°	1232.2	454.3	431.2	450.9	471.4	499.5	503.8	484.2	506.4	538.8
72.5°	871.9	380.0	363.8	403.8	410.7	447.4	438.1	428.7	459.4	470.5
75°	604.5	306.6	297.1	327.9	352.7	384.3	377.4	388.5	453.5	458.6
77.5°	382.5	238.2	232.3	251.9	286.1	321.0	332.2	458.6	774.5	805.2
80°	222.0	177.6	170.8	186.1	216.1	248.5	320.2	562.7	510.7	504.6
82.5°	123.8	122.1	113.6	117.9	144.3	179.3	452.5	396.2	322.0	332.2
85°	58.0	71.8	61.5	58.9	81.1	210.0	302.3	226.3	150.3	146.9
87.5°	15.4	13.6	13.6	15.4	34.1	181.0	120.4	96.5	57.2	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)