

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: P964991

Luminaire Tested: **NAV-SB3D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3D-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25695.7 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

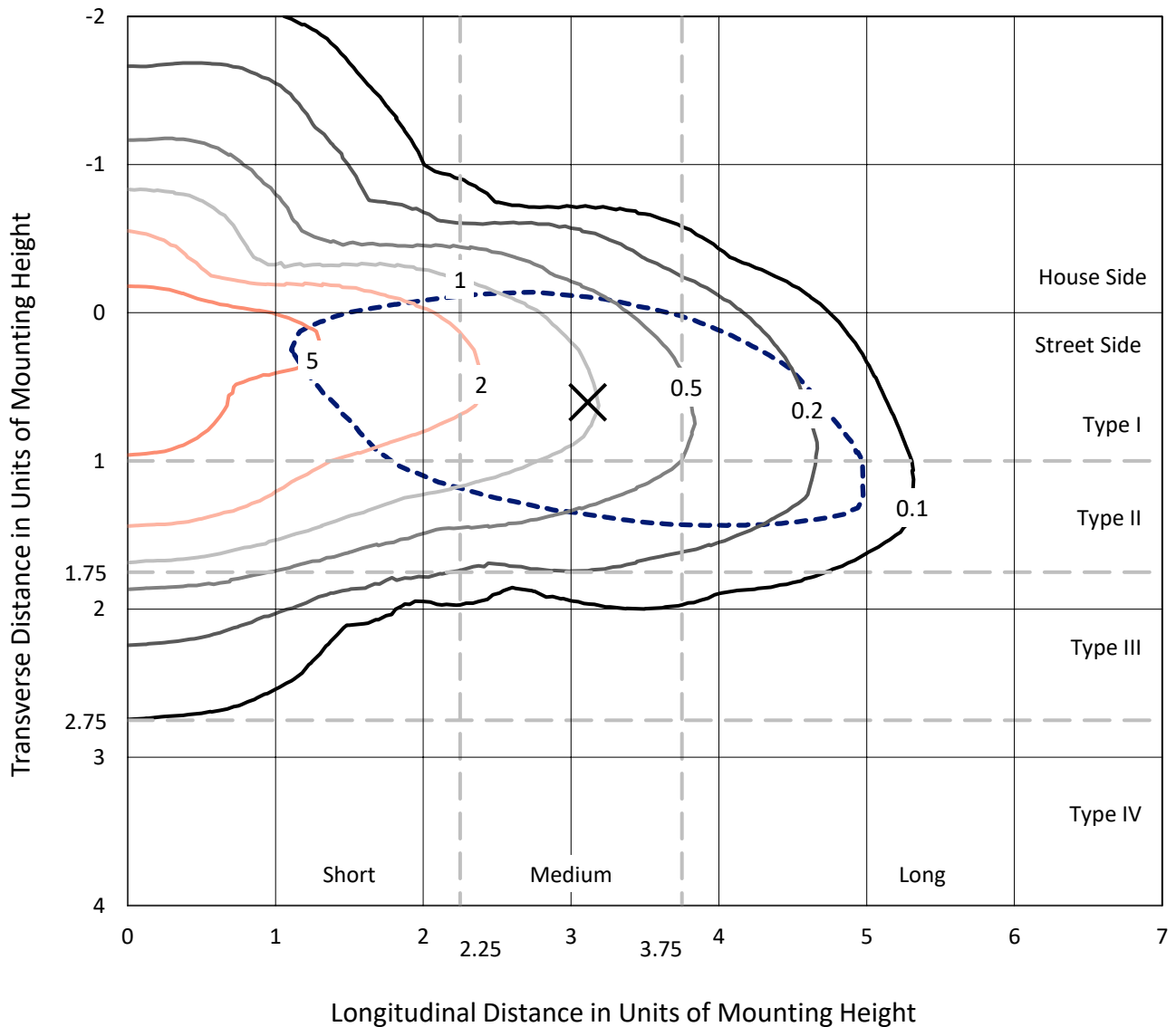
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

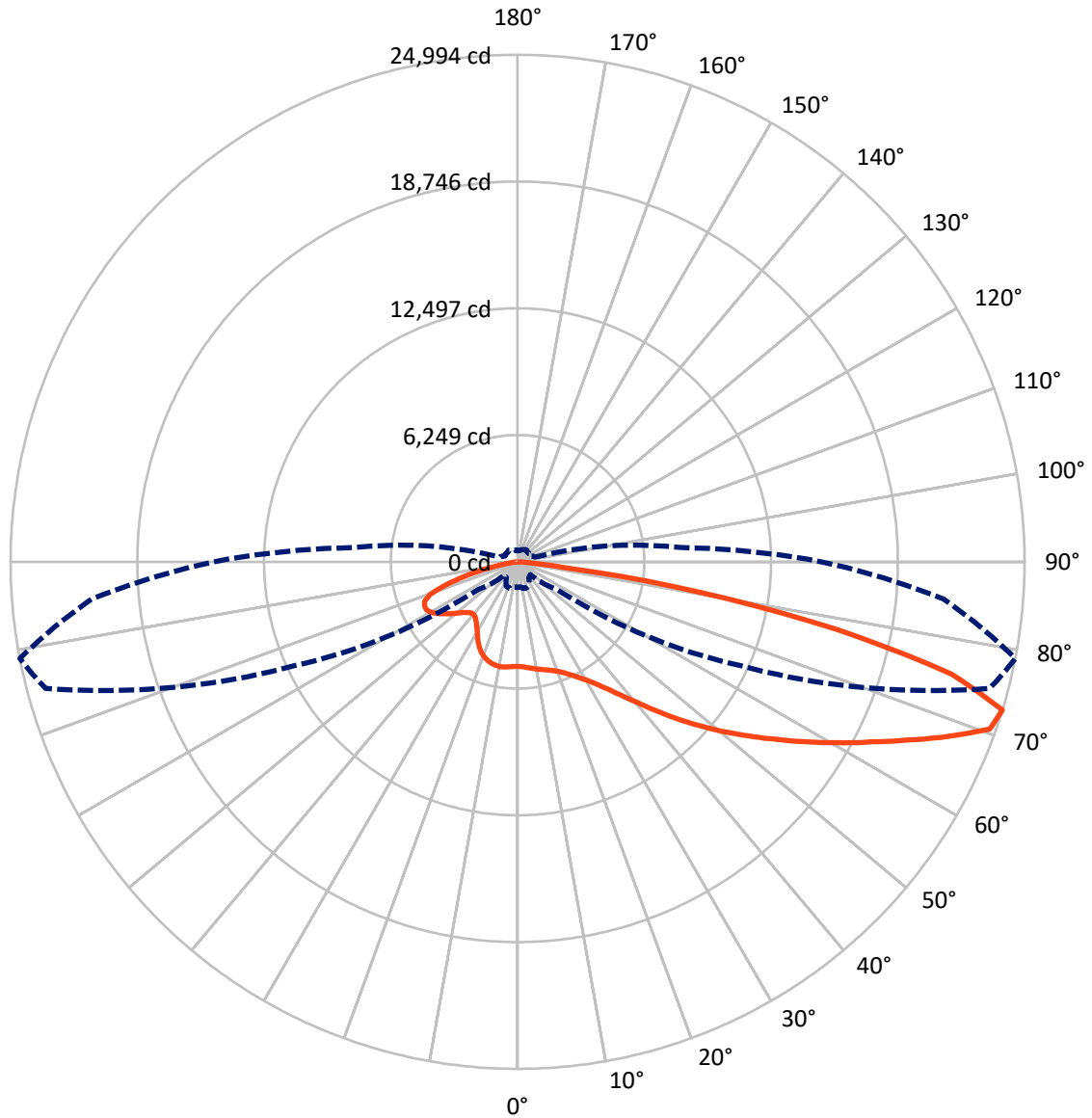
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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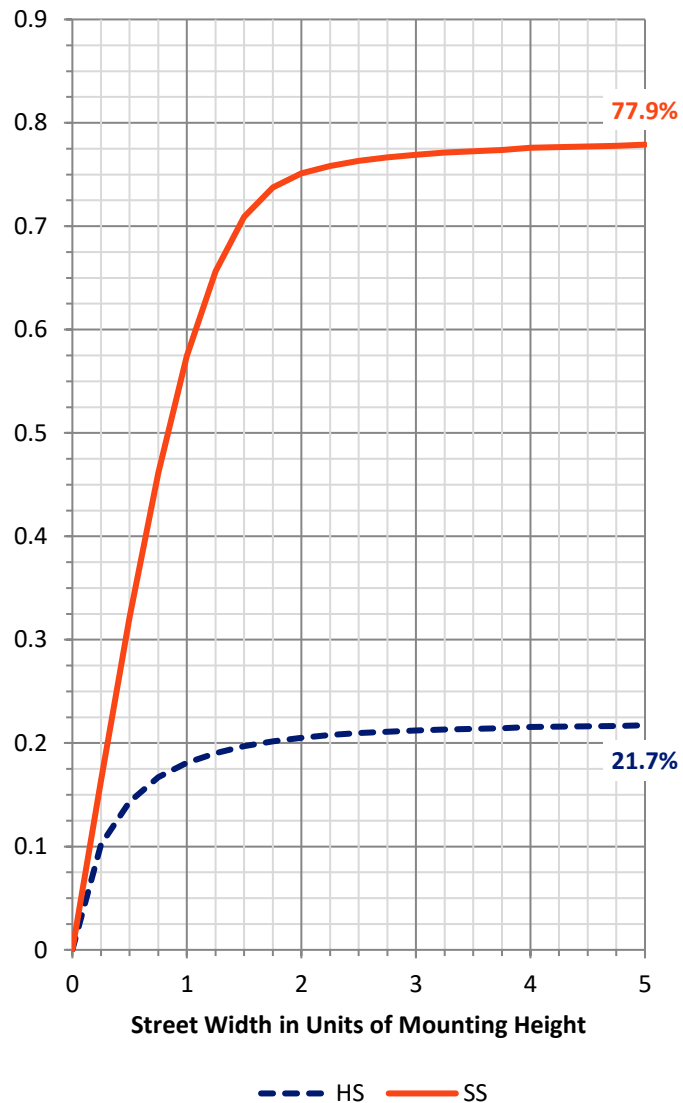
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5654.5	0.0	5654.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	20041.3	0.0	20041.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	25695.7	0.0	25695.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	1.8
10°-20°	1224.1	4.8
20°-30°	1975.3	7.7
30°-40°	2964.6	11.5
40°-50°	4205.5	16.4
50°-60°	5310.9	20.7
60°-70°	5394.0	21.0
70°-80°	3676.2	14.3
80°-90°	477.0	1.9
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°	25695.7	100.0
0°-180°	25695.7	100.0

Coefficient of Utilization

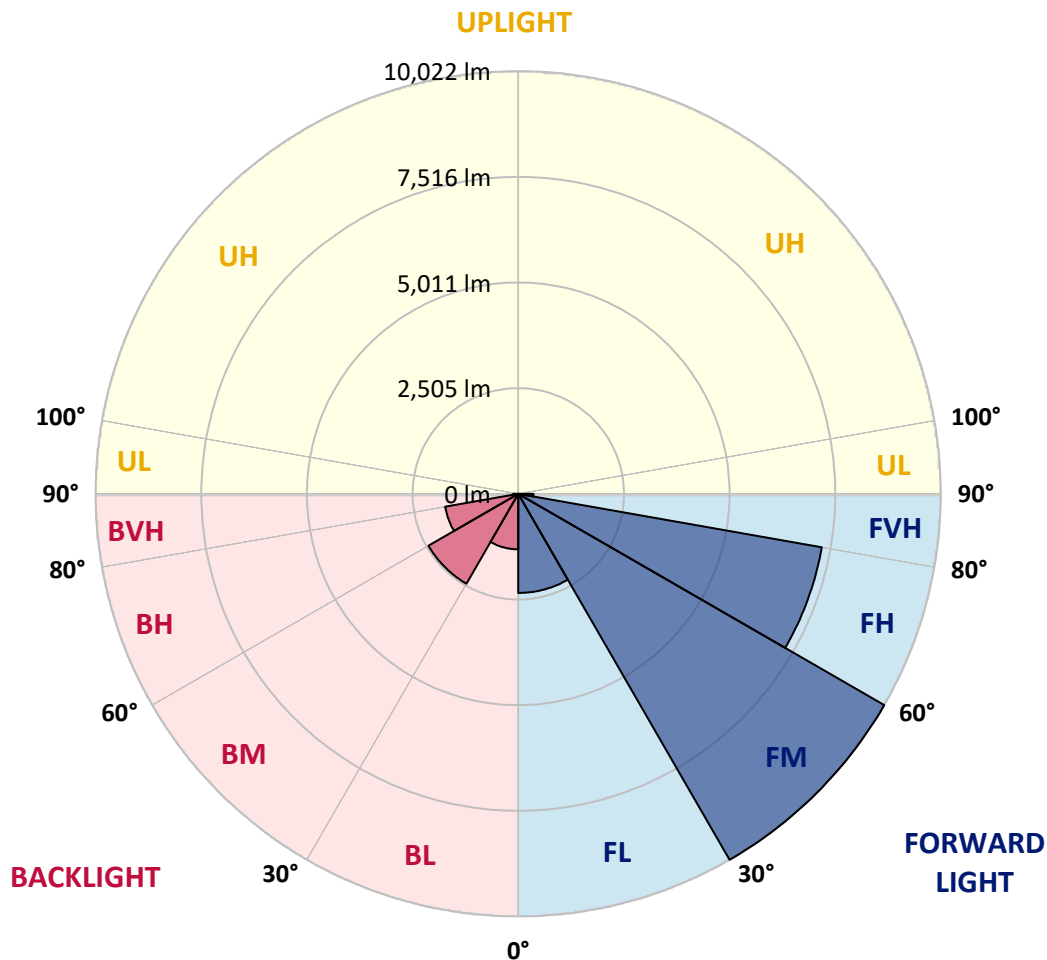


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2350.5	9.1			
FM (30°-60°)	10021.9	39.0			
FH (60°-80°)	7309.6	28.4			G3/7500
FVH (80°-90°)	359.3	1.4			G3/500
BL (0°-30°)	1317.1	5.1	B3/2500		
BM (30°-60°)	2459.1	9.6	B2/2500		
BH (60°-80°)	1760.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	117.7	0.5			G2/225
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°	79°	85°
0°	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2
2.5°	5160.9	5136.4	5151.3	5145.9	5152.8	5160.9	5163.6	5167.6	5181.3	5179.9	5178.6
5°	5150.0	5125.5	5145.9	5139.1	5156.8	5175.8	5192.1	5207.1	5228.8	5238.4	5224.7
7.5°	5126.9	5110.6	5130.9	5151.3	5184.0	5212.5	5235.6	5269.6	5300.9	5306.3	5315.9
10°	4992.4	4980.2	5027.7	5080.7	5170.4	5247.9	5298.1	5337.6	5371.6	5377.0	5390.6
12.5°	4852.3	4837.4	4890.4	4962.4	5107.9	5247.9	5353.9	5405.5	5435.5	5453.1	5473.5
15°	4829.3	4817.0	4846.9	4909.4	5030.4	5211.2	5391.9	5487.1	5513.0	5533.4	5541.5
17.5°	4940.7	4917.6	4929.8	4951.6	5022.3	5177.2	5421.8	5579.5	5618.9	5640.7	5640.7
20°	5198.9	5166.3	5147.3	5103.8	5091.6	5182.6	5419.2	5691.0	5742.7	5769.8	5776.6
22.5°	5542.8	5521.1	5480.3	5370.2	5250.6	5249.2	5470.8	5833.7	5930.2	5956.1	5939.7
25°	5958.7	5926.1	5874.5	5724.9	5495.2	5381.0	5557.8	6015.8	6177.6	6184.3	6136.8
27.5°	6437.2	6388.2	6317.6	6120.5	5810.6	5587.7	5691.0	6225.1	6461.6	6458.9	6361.0
30°	6941.4	6892.5	6817.8	6578.6	6188.4	5866.3	5875.8	6450.7	6798.7	6783.8	6616.6
32.5°	7309.8	7273.1	7258.1	7073.3	6623.3	6195.2	6087.9	6700.8	7214.7	7201.0	6967.2
35°	7592.5	7544.9	7562.6	7468.9	7097.7	6563.6	6347.5	6998.5	7720.3	7718.9	7428.1
37.5°	7872.5	7830.4	7845.4	7782.8	7536.8	7031.2	6664.1	7362.8	8346.9	8376.8	7985.3
40°	8128.0	8083.2	8143.0	8084.6	7877.9	7528.6	7024.3	7774.6	9072.7	9129.8	8659.5
42.5°	8281.6	8246.3	8345.6	8346.9	8174.3	7948.6	7419.9	8228.6	9912.7	10040.4	9488.6
45°	8334.6	8322.4	8471.9	8503.2	8436.6	8191.9	7776.0	8723.4	10817.8	11046.2	10433.3
47.5°	8277.6	8254.4	8461.1	8576.6	8629.6	8306.1	8071.0	9258.9	11742.2	12076.6	11463.5
50°	7989.4	7944.6	8251.8	8495.0	8683.9	8380.8	8368.6	9877.3	12792.8	13158.4	12499.3
52.5°	7471.5	7437.6	7786.8	8209.5	8564.3	8417.5	8703.0	10552.9	13790.5	14263.5	13560.7
55°	6809.6	6764.8	7149.4	7701.2	8266.6	8405.3	9037.3	11308.5	14967.6	15447.4	14657.6
57.5°	5760.3	5670.6	6157.2	6809.6	7781.4	8390.3	9385.3	12060.3	16163.6	16738.6	15827.9
60°	4229.9	4096.6	4693.4	5466.7	6832.8	8244.9	9816.1	12902.9	17598.9	18116.8	17105.6
62.5°	2462.9	2385.4	2775.5	3497.2	5150.0	7388.6	10058.1	13882.9	19009.8	19553.5	18361.4
65°	1912.4	1890.6	1924.6	1980.4	2866.5	5531.9	9311.9	14838.4	20803.9	21184.5	19670.4
67.5°	1749.3	1733.0	1747.9	1643.3	1454.4	3081.4	7366.9	15080.3	22725.9	22956.9	20816.2
70°	1554.9	1535.9	1584.9	1495.2	1144.4	1401.4	4759.9	14202.3	24255.0	24688.6	21687.5
72.5°	1266.8	1245.1	1359.3	1318.5	963.7	899.7	2390.8	12115.9	24094.6	24994.4	21063.5
75°	973.2	960.9	1096.9	1130.9	785.7	708.2	1147.2	9006.1	21203.6	22110.2	18153.5
77.5°	755.7	746.2	815.5	939.2	633.3	549.1	705.4	5712.7	15978.8	16137.8	12510.1
80°	566.8	539.6	603.5	727.1	493.4	401.0	478.5	3331.5	10100.2	9155.6	5445.0
82.5°	354.8	341.1	394.2	485.2	348.0	275.9	311.3	1840.4	4047.7	2384.0	1050.6
85°	202.5	197.1	214.7	277.3	188.9	159.0	178.0	812.8	739.4	508.3	316.7
87.5°	81.6	78.8	97.9	123.7	69.3	58.4	62.5	195.8	163.1	150.9	104.7
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°	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2
2.5°	5173.1	5173.1	5154.1	5124.2	5090.3	5068.4	5033.2	5023.6	4986.9	4976.1	4993.7
5°	5235.6	5224.7	5166.3	5082.1	4966.5	4860.5	4743.6	4670.2	4566.9	4530.2	4557.4
7.5°	5314.5	5284.6	5184.0	4999.1	4757.2	4519.3	4272.0	4084.4	3904.9	3841.1	3849.3
10°	5386.5	5344.3	5173.1	4849.6	4431.0	4019.1	3625.0	3349.1	3139.8	3054.1	3073.2
12.5°	5458.5	5381.0	5101.1	4600.9	3967.5	3408.8	2988.9	2774.2	2645.0	2541.7	2575.7
15°	5526.5	5417.7	4989.6	4267.9	3459.2	2892.3	2582.5	2411.2	2307.9	2239.9	2252.2
17.5°	5605.3	5449.0	4822.4	3845.2	2975.3	2534.9	2282.1	2178.8	2158.4	2150.2	2155.7
20°	5715.4	5477.6	4602.2	3372.1	2619.2	2249.5	2119.0	2109.4	2108.1	2104.0	2117.6
22.5°	5833.7	5511.5	4311.4	2942.7	2316.1	2071.4	2048.4	2029.3	2017.1	2015.7	2030.6
25°	5973.7	5522.4	3947.2	2590.7	2057.8	1987.2	1960.0	1931.4	1923.3	1923.3	1931.4
27.5°	6109.6	5485.7	3523.0	2284.8	1912.4	1909.7	1874.3	1864.8	1863.4	1867.5	1878.4
30°	6245.5	5416.4	3101.6	2002.1	1828.1	1828.1	1815.9	1822.7	1828.1	1841.7	1851.3
32.5°	6429.0	5343.0	2749.7	1792.8	1754.7	1741.2	1753.4	1767.0	1772.4	1790.1	1805.0
35°	6698.2	5291.4	2469.6	1678.6	1678.6	1660.9	1667.8	1665.0	1652.8	1644.6	1663.7
37.5°	7054.3	5288.7	2238.6	1625.6	1614.7	1612.0	1613.4	1595.7	1548.2	1491.1	1492.4
40°	7482.4	5362.1	2060.6	1589.0	1580.8	1597.1	1589.0	1541.3	1410.8	1311.6	1308.9
42.5°	8057.3	5571.4	1946.4	1544.1	1568.6	1589.0	1556.3	1391.8	1303.5	1236.9	1234.2
45°	8734.2	5911.2	1887.9	1496.5	1545.4	1569.9	1412.2	1340.2	1269.5	1189.3	1183.9
47.5°	9500.8	6339.3	1874.3	1451.6	1493.7	1508.7	1351.1	1318.5	1238.2	1151.3	1144.4
50°	10335.4	6846.3	1911.0	1398.6	1419.0	1367.4	1330.7	1300.7	1217.8	1132.2	1122.7
52.5°	11198.4	7404.9	1984.4	1326.6	1344.3	1287.2	1322.5	1296.7	1205.6	1090.1	1081.9
55°	12046.6	7967.6	2055.1	1242.3	1268.1	1215.1	1299.4	1280.3	1149.8	1019.4	1012.6
57.5°	12908.3	8527.6	2124.4	1167.6	1194.7	1145.8	1262.7	1236.9	1087.3	954.2	951.4
60°	13804.1	9071.4	2157.0	1095.5	1114.6	1081.9	1206.9	1162.1	1016.7	887.5	883.4
62.5°	14642.6	9523.9	2104.0	1023.5	1035.8	1022.1	1133.5	1073.8	946.0	812.8	811.5
65°	15484.1	9793.1	1940.9	952.8	955.5	948.7	1030.2	978.7	863.0	747.5	739.4
67.5°	16246.6	9943.9	1681.3	876.7	869.9	867.2	933.8	875.4	782.9	682.3	674.1
70°	16408.3	9560.6	1284.4	787.0	787.0	780.2	827.8	767.9	694.5	612.9	610.3
72.5°	14986.5	8042.4	912.0	685.0	695.9	682.3	721.7	671.5	604.9	550.5	534.1
75°	12084.6	5897.5	663.3	580.4	599.4	576.3	612.9	577.7	520.6	519.3	467.6
77.5°	8303.3	3646.7	481.1	478.5	492.0	462.2	504.3	485.2	433.6	410.5	384.7
80°	3543.4	1454.4	350.7	369.7	369.7	342.6	391.4	396.9	352.0	341.1	341.1
82.5°	705.4	413.2	246.0	254.2	239.2	231.0	277.3	307.2	424.0	471.6	473.0
85°	212.1	152.2	148.1	138.7	122.3	123.7	163.1	308.5	380.6	217.5	187.6
87.5°	58.4	38.0	39.5	31.3	25.8	34.0	55.8	233.8	127.7	54.3	46.2
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)