

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: P964495

Luminaire Tested: **NAV-SB3C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964495
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-SB3C-727-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21233.9 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

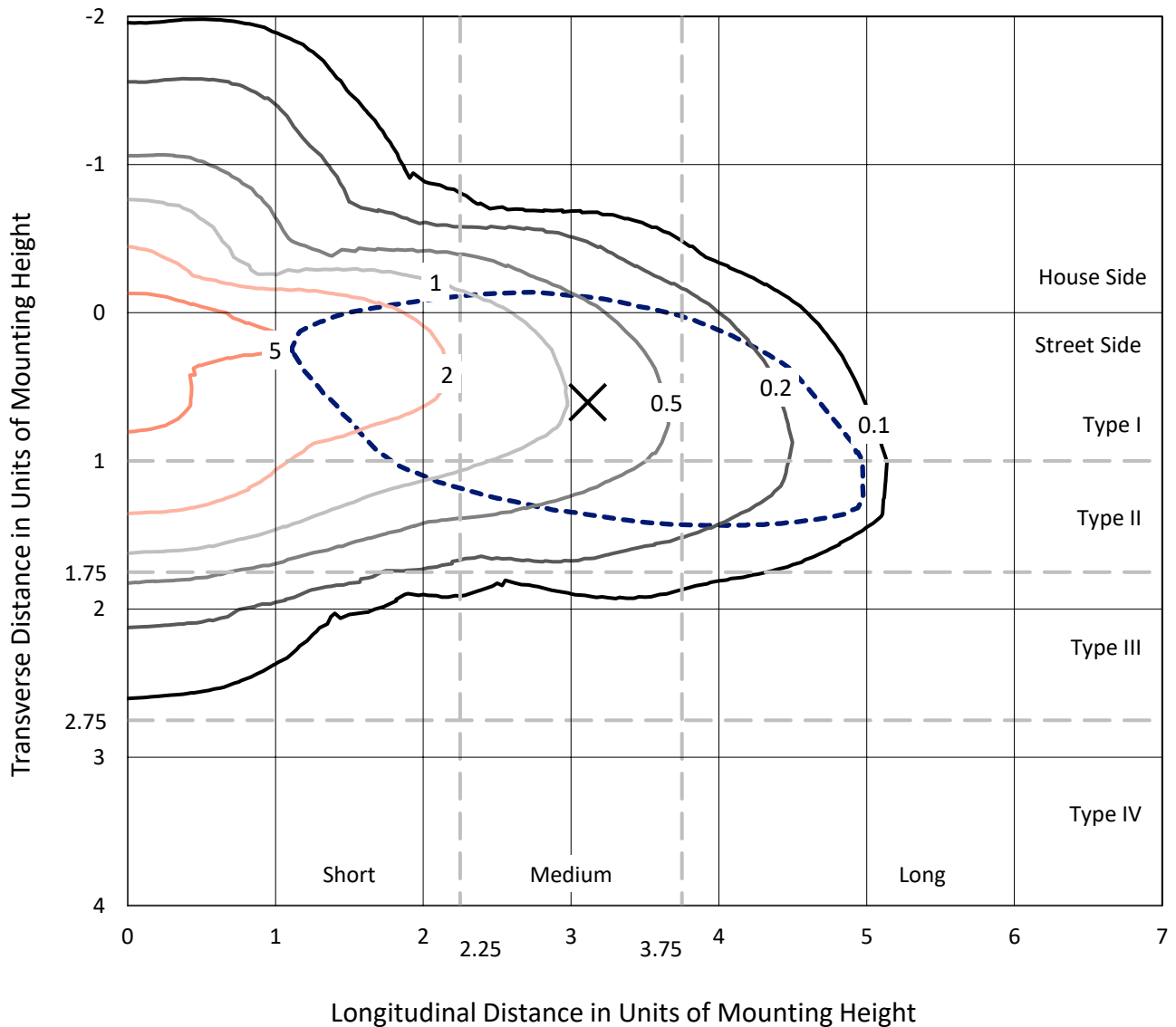
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

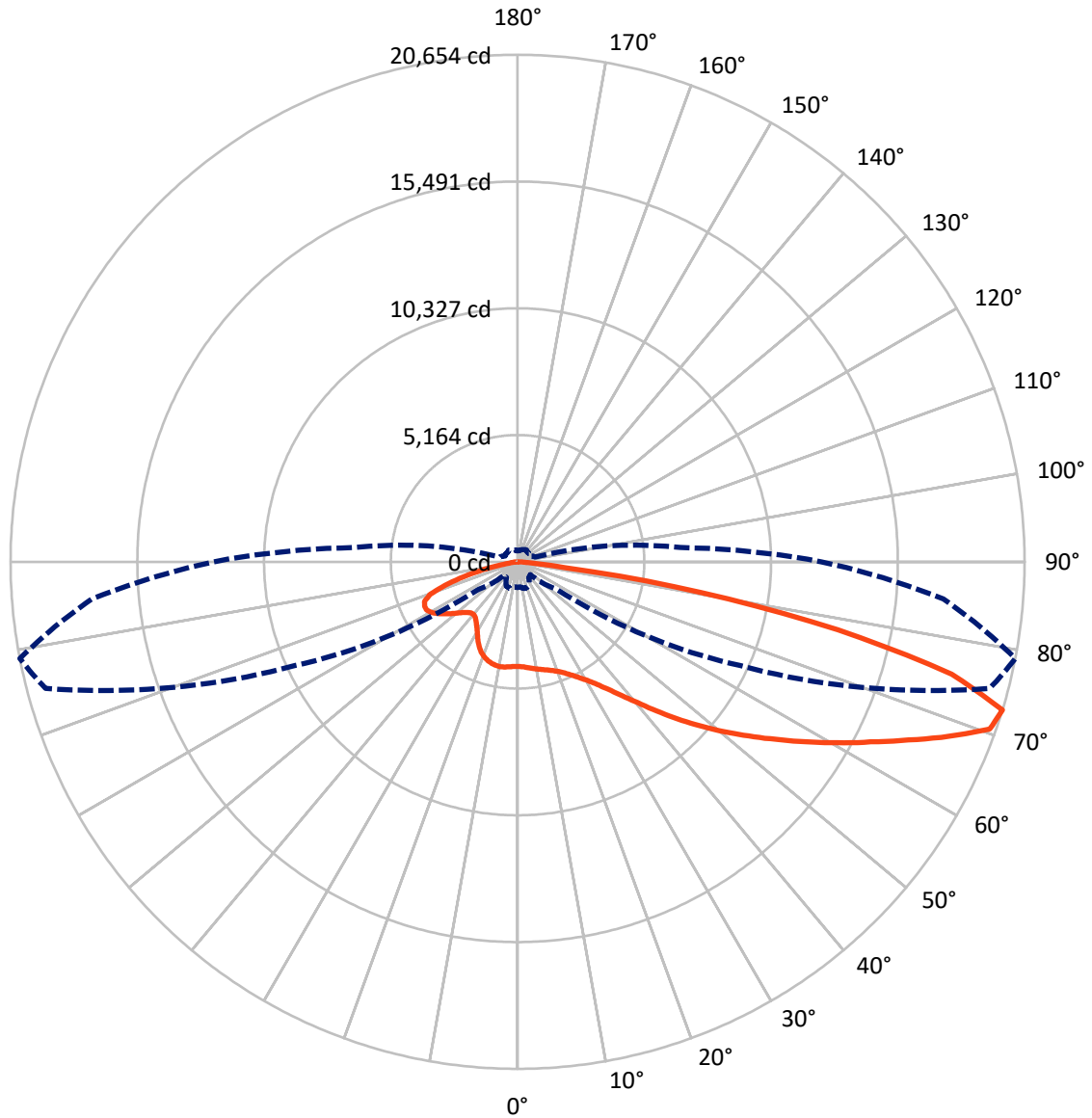
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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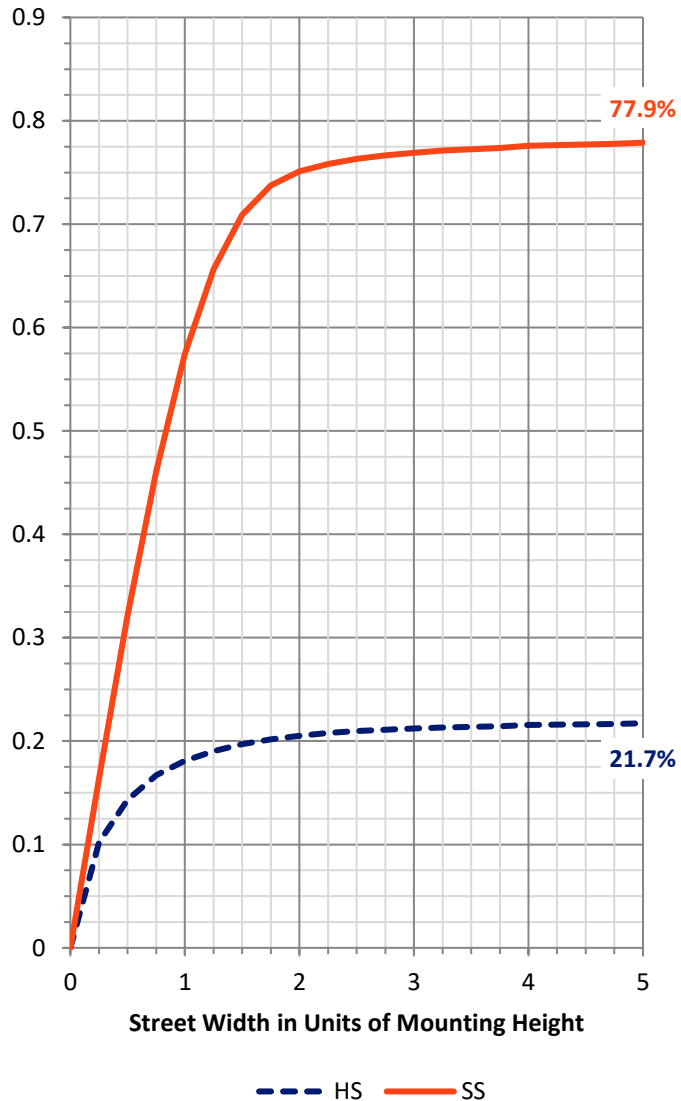
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4672.6	0.0	4672.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16561.3	0.0	16561.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	21233.9	0.0	21233.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.9	1.8
10°-20°	1011.6	4.8
20°-30°	1632.3	7.7
30°-40°	2449.8	11.5
40°-50°	3475.2	16.4
50°-60°	4388.7	20.7
60°-70°	4457.3	21.0
70°-80°	3037.9	14.3
80°-90°	394.1	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°	21233.9	100.0
0°-180°	21233.9	100.0

Coefficient of Utilization

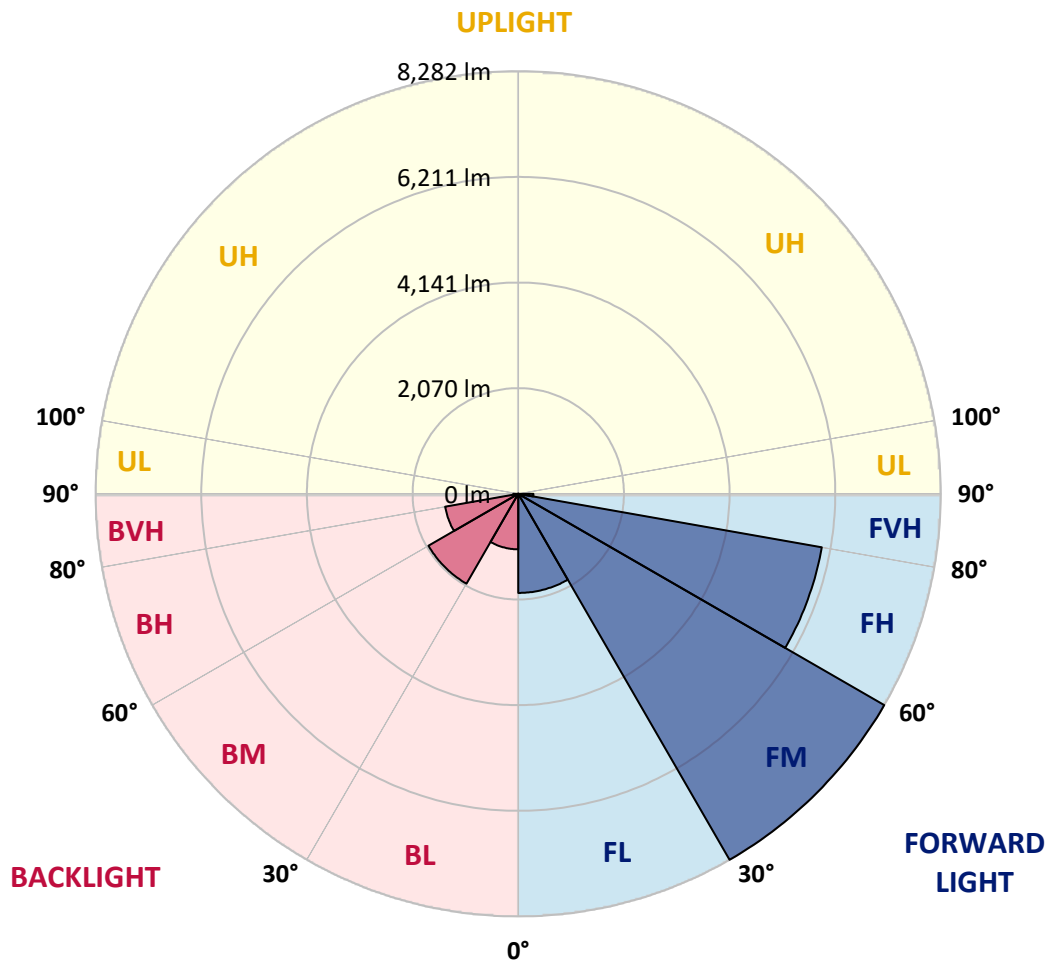


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.4	9.1			
FM (30°-60°)	8281.6	39.0			
FH (60°-80°)	6040.3	28.4			G3/7500
FVH (80°-90°)	296.9	1.4			G3/500
BL (0°-30°)	1088.4	5.1	B3/2500		
BM (30°-60°)	2032.1	9.6	B2/2500		
BH (60°-80°)	1454.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	97.2	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-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5
2.5°	4264.7	4244.5	4256.9	4252.4	4258.1	4264.7	4267.0	4270.4	4281.6	4280.5	4279.4
5°	4255.8	4235.5	4252.4	4246.8	4261.3	4277.1	4290.5	4303.0	4320.9	4328.8	4317.5
7.5°	4236.6	4223.2	4240.0	4256.9	4283.9	4307.5	4326.5	4354.6	4380.4	4385.0	4392.8
10°	4125.5	4115.4	4154.6	4198.5	4272.6	4336.7	4378.2	4410.8	4438.9	4443.4	4454.5
12.5°	4009.8	3997.4	4041.3	4100.7	4221.0	4336.7	4424.2	4467.0	4491.7	4506.2	4523.1
15°	3990.7	3980.6	4005.3	4057.0	4156.9	4306.3	4455.7	4534.3	4555.6	4572.5	4579.3
17.5°	4082.8	4063.7	4073.8	4091.8	4150.2	4278.2	4480.4	4610.7	4643.2	4661.2	4661.2
20°	4296.2	4269.2	4253.5	4217.6	4207.4	4282.8	4478.1	4702.8	4745.4	4767.9	4773.5
22.5°	4580.3	4562.4	4528.7	4437.7	4338.9	4337.8	4520.9	4820.7	4900.5	4921.8	4908.3
25°	4924.1	4897.1	4854.4	4730.9	4541.1	4446.8	4592.7	4971.2	5104.9	5110.5	5071.2
27.5°	5319.4	5279.0	5220.6	5057.8	4801.6	4617.4	4702.8	5144.2	5339.6	5337.4	5256.5
30°	5736.1	5695.7	5633.9	5436.2	5113.9	4847.6	4855.5	5330.6	5618.2	5605.8	5467.7
32.5°	6040.5	6010.2	5997.8	5845.1	5473.3	5119.5	5030.8	5537.4	5961.9	5950.6	5757.4
35°	6274.1	6234.9	6249.4	6171.9	5865.3	5423.9	5245.3	5783.3	6379.7	6378.6	6138.2
37.5°	6505.5	6470.7	6483.0	6431.4	6228.1	5810.2	5507.0	6084.3	6897.5	6922.2	6598.7
40°	6716.7	6679.6	6729.0	6680.7	6510.0	6221.3	5804.7	6424.6	7497.3	7544.5	7155.8
42.5°	6843.6	6814.4	6896.4	6897.5	6754.9	6568.4	6131.4	6799.7	8191.4	8297.0	7840.9
45°	6887.4	6877.2	7000.9	7026.7	6971.6	6769.5	6425.7	7208.6	8939.4	9128.1	8621.6
47.5°	6840.2	6821.2	6991.8	7087.4	7131.1	6863.8	6669.5	7651.2	9703.3	9979.5	9472.9
50°	6602.1	6565.0	6818.9	7019.9	7176.0	6925.6	6915.5	8162.2	10571.4	10873.6	10328.8
52.5°	6174.2	6146.1	6434.7	6784.1	7077.2	6956.0	7191.8	8720.4	11395.8	11786.8	11206.0
55°	5627.1	5590.1	5908.0	6364.0	6831.2	6945.8	7468.0	9344.9	12368.6	12765.0	12112.4
57.5°	4760.1	4686.0	5088.0	5627.1	6430.2	6933.4	7755.7	9966.1	13357.0	13832.1	13079.5
60°	3495.4	3385.3	3878.4	4517.5	5646.3	6813.3	8111.6	10662.5	14543.0	14970.9	14135.4
62.5°	2035.2	1971.2	2293.5	2890.0	4255.8	6105.6	8311.6	11472.2	15708.9	16158.2	15173.2
65°	1580.3	1562.4	1590.4	1636.5	2368.8	4571.4	7695.0	12261.9	17191.5	17506.1	16254.8
67.5°	1445.6	1432.0	1444.4	1357.9	1201.8	2546.3	6087.7	12461.7	18779.7	18970.7	17201.7
70°	1284.9	1269.2	1309.6	1235.5	945.8	1158.0	3933.4	11736.2	20043.4	20401.6	17921.6
72.5°	1046.8	1028.8	1123.2	1089.5	796.3	743.5	1975.7	10012.1	19910.7	20654.4	17406.0
75°	804.2	794.1	906.4	934.5	649.2	585.2	948.0	7442.2	17521.8	18270.9	15001.3
77.5°	624.5	616.6	673.9	776.1	523.4	453.8	582.9	4720.7	13204.3	13335.7	10337.8
80°	468.3	445.9	498.7	601.0	407.7	331.4	395.3	2752.9	8346.4	7565.8	4499.5
82.5°	293.2	281.9	325.7	401.0	287.5	228.0	257.2	1520.8	3344.9	1970.0	868.2
85°	167.4	162.9	177.4	229.1	156.1	131.4	147.1	671.7	611.0	420.0	261.7
87.5°	67.3	65.2	80.9	102.2	57.3	48.3	51.7	161.7	134.8	124.6	86.5
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°	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5	4262.5
2.5°	4274.9	4274.9	4259.2	4234.4	4206.4	4188.4	4159.1	4151.4	4121.0	4112.0	4126.5
5°	4326.5	4317.5	4269.2	4199.6	4104.1	4016.6	3919.9	3859.2	3773.9	3743.6	3766.1
7.5°	4391.7	4366.9	4283.9	4131.1	3931.2	3734.6	3530.2	3375.2	3226.9	3174.1	3180.9
10°	4451.2	4416.4	4274.9	4007.5	3661.6	3321.3	2995.6	2767.5	2594.6	2523.9	2539.5
12.5°	4510.7	4446.8	4215.3	3802.0	3278.6	2817.0	2469.9	2292.4	2185.7	2100.3	2128.4
15°	4566.9	4477.0	4123.3	3526.8	2858.5	2390.2	2134.0	1992.5	1907.2	1851.0	1861.1
17.5°	4632.1	4502.8	3985.1	3177.5	2458.7	2094.8	1885.8	1800.5	1783.6	1776.8	1781.3
20°	4723.0	4526.5	3803.2	2786.7	2164.4	1858.8	1751.0	1743.2	1742.1	1738.7	1749.9
22.5°	4820.7	4554.5	3562.8	2431.7	1913.9	1711.7	1692.7	1676.9	1666.9	1665.7	1678.0
25°	4936.4	4563.5	3261.8	2140.8	1700.5	1642.2	1619.6	1596.0	1589.3	1589.3	1596.0
27.5°	5048.7	4533.2	2911.3	1888.0	1580.3	1578.1	1548.9	1541.0	1539.9	1543.2	1552.3
30°	5161.1	4475.9	2563.1	1654.5	1510.6	1510.6	1500.6	1506.2	1510.6	1521.9	1529.8
32.5°	5312.7	4415.3	2272.2	1481.5	1450.1	1438.8	1448.9	1460.1	1464.6	1479.3	1491.6
35°	5535.1	4372.5	2040.9	1387.1	1387.1	1372.6	1378.1	1375.9	1365.8	1359.0	1374.8
37.5°	5829.4	4370.3	1849.9	1343.4	1334.3	1332.1	1333.2	1318.7	1279.3	1232.2	1233.3
40°	6183.1	4431.0	1702.7	1313.0	1306.3	1319.8	1313.0	1273.7	1165.8	1083.8	1081.7
42.5°	6658.3	4604.0	1608.4	1275.9	1296.1	1313.0	1286.1	1150.2	1077.2	1022.1	1019.9
45°	7217.6	4884.7	1560.2	1236.7	1277.0	1297.2	1167.0	1107.5	1049.1	982.8	978.3
47.5°	7851.1	5238.6	1548.9	1199.6	1234.4	1246.7	1116.4	1089.5	1023.3	951.3	945.8
50°	8540.7	5657.5	1579.2	1155.8	1172.6	1130.0	1099.6	1074.9	1006.3	935.6	927.7
52.5°	9254.0	6119.1	1639.9	1096.2	1110.8	1063.6	1092.9	1071.5	996.3	900.8	894.1
55°	9954.8	6584.1	1698.2	1026.6	1048.0	1004.1	1073.8	1058.0	950.2	842.3	836.8
57.5°	10667.0	7046.9	1755.5	964.8	987.3	946.9	1043.4	1022.1	898.5	788.4	786.3
60°	11407.1	7496.1	1782.5	905.3	921.1	894.1	997.4	960.3	840.2	733.5	730.1
62.5°	12100.1	7870.2	1738.7	845.7	855.9	844.6	936.7	887.3	781.8	671.7	670.6
65°	12795.4	8092.6	1603.9	787.4	789.6	784.0	851.4	808.7	713.2	617.8	611.0
67.5°	13425.4	8217.2	1389.4	724.5	718.8	716.6	771.6	723.3	647.0	563.9	557.1
70°	13559.1	7900.5	1061.4	650.4	650.4	644.7	684.0	634.6	574.0	506.6	504.3
72.5°	12384.3	6645.9	753.7	566.1	575.0	563.9	596.4	554.8	499.8	454.9	441.4
75°	9986.3	4873.6	548.1	479.6	495.3	476.2	506.6	477.3	430.2	429.1	386.4
77.5°	6861.6	3013.5	397.6	395.3	406.6	381.9	416.7	401.0	358.3	339.2	317.9
80°	2928.1	1201.8	289.8	305.6	305.6	283.0	323.5	328.0	290.9	281.9	281.9
82.5°	582.9	341.4	203.3	210.0	197.7	191.0	229.1	253.8	350.4	389.7	390.8
85°	175.2	125.8	122.4	114.6	101.1	102.2	134.8	254.9	314.5	179.7	155.0
87.5°	48.3	31.5	32.6	25.8	21.3	28.1	46.0	193.2	105.6	44.9	38.2
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)