

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: P970279

Luminaire Tested: **NAV-SB6B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29683 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

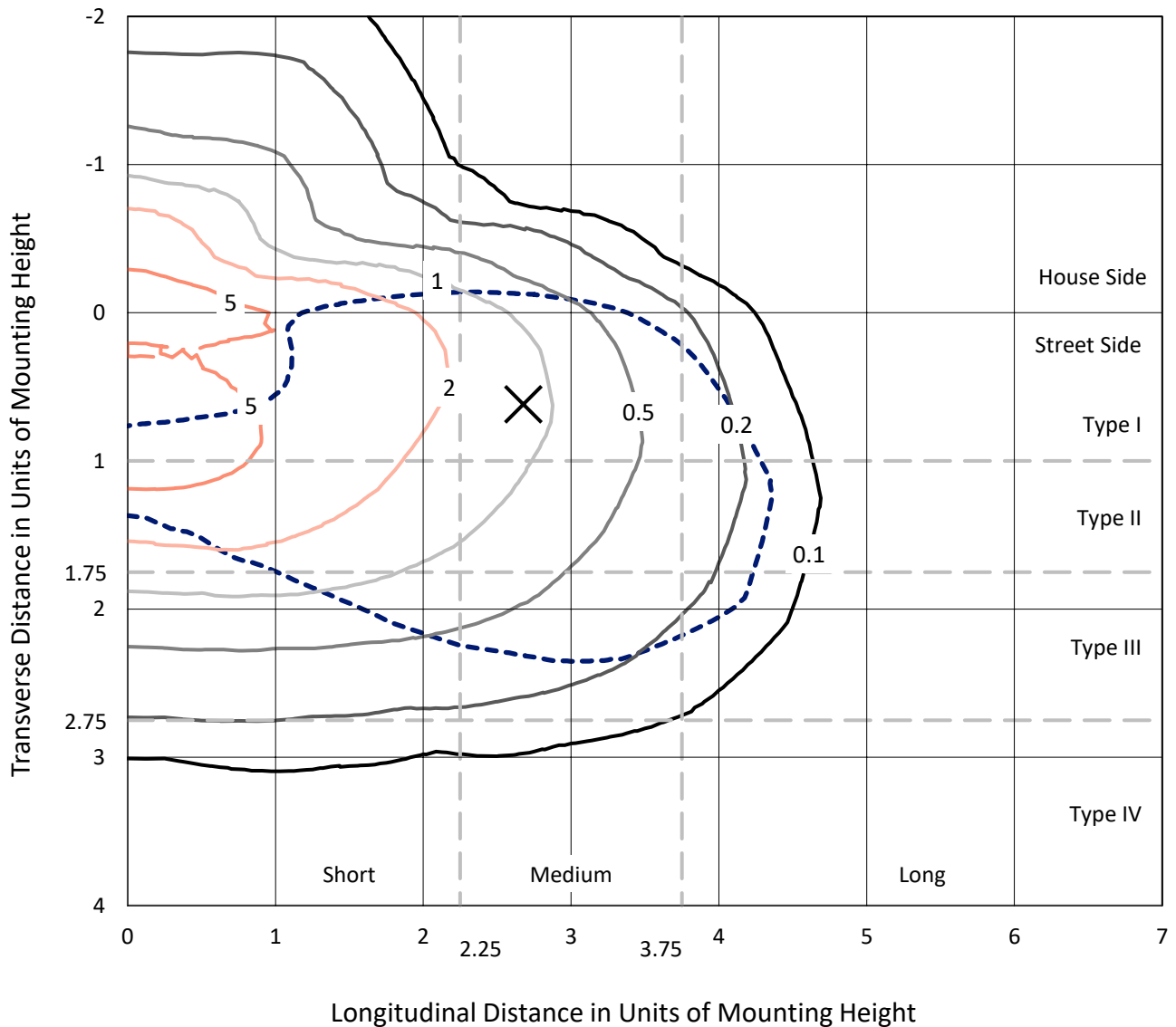
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

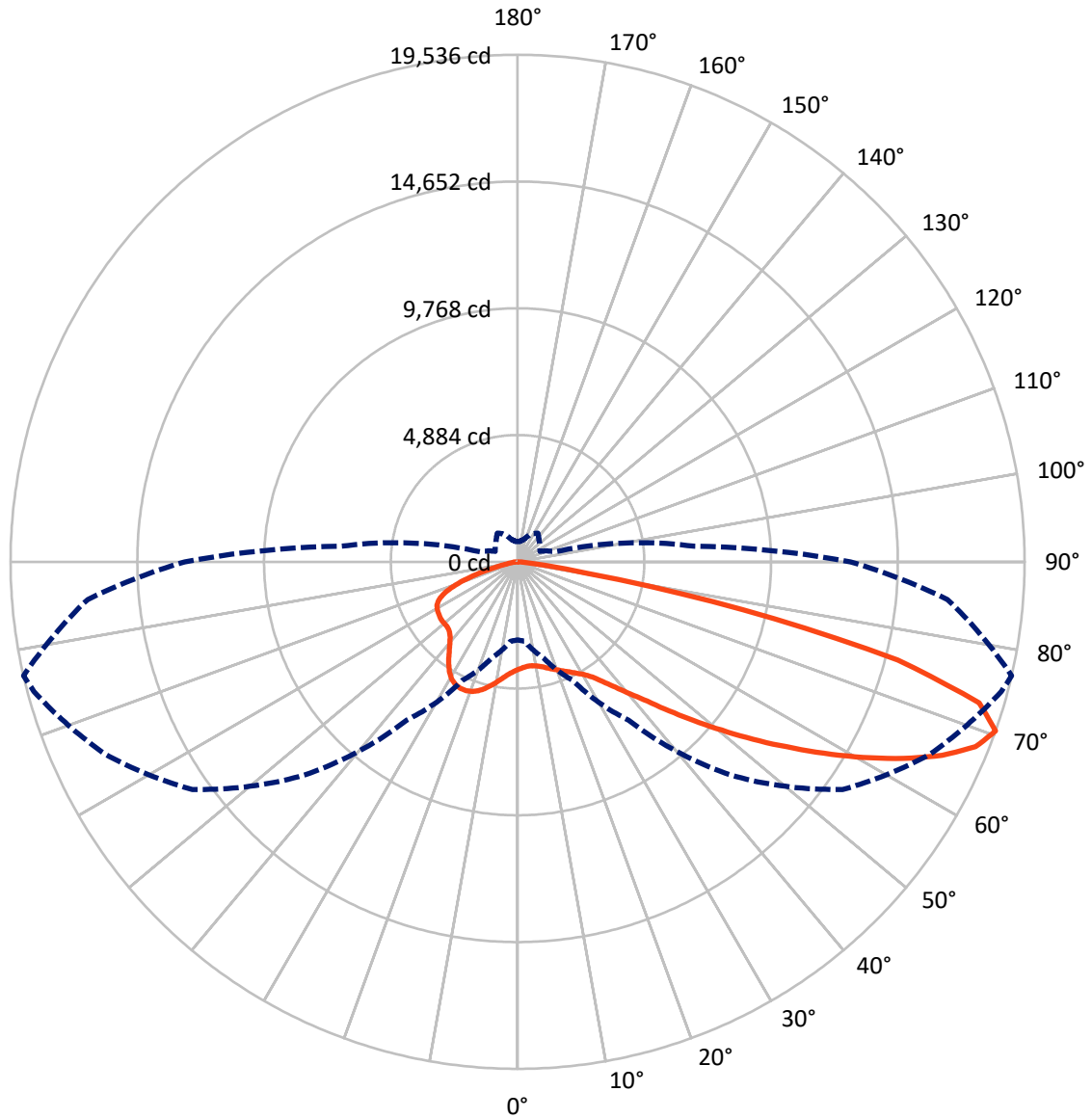
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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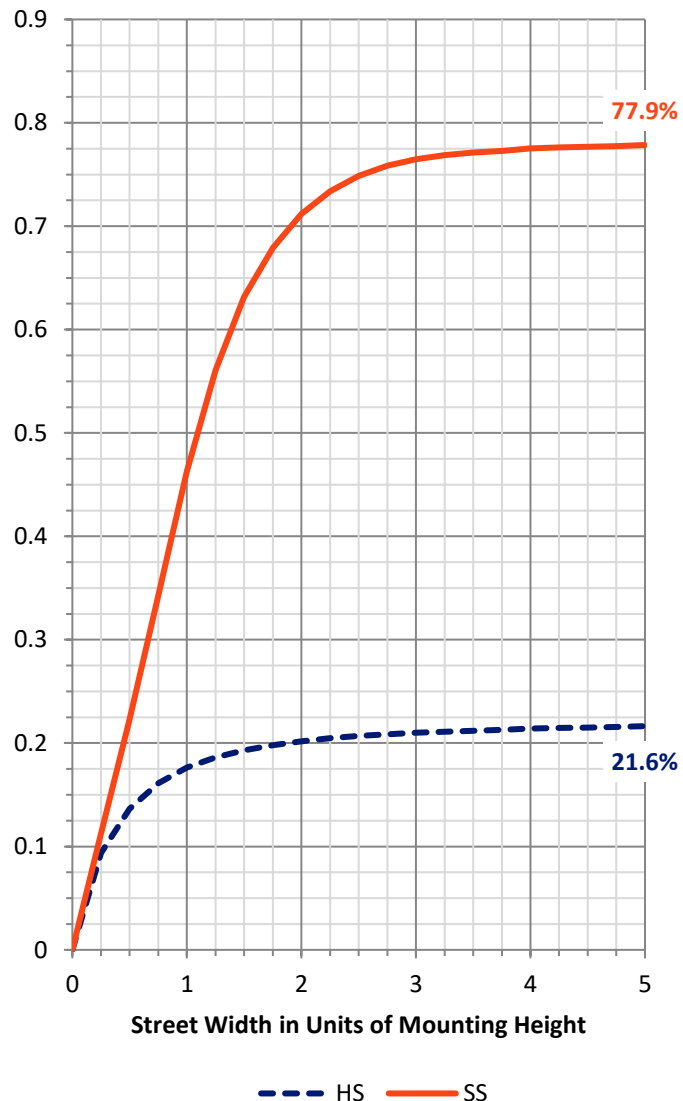
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6500.1	0.0	6500.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	23182.9	0.0	23182.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	29683.0	0.0	29683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.9	1.3
10°-20°	1139.9	3.8
20°-30°	1949.3	6.6
30°-40°	3134.7	10.6
40°-50°	4894.0	16.5
50°-60°	6537.3	22.0
60°-70°	6967.7	23.5
70°-80°	4289.3	14.5
80°-90°	375.9	1.3
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°	29683.0	100.0
0°-180°	29683.0	100.0

Coefficient of Utilization

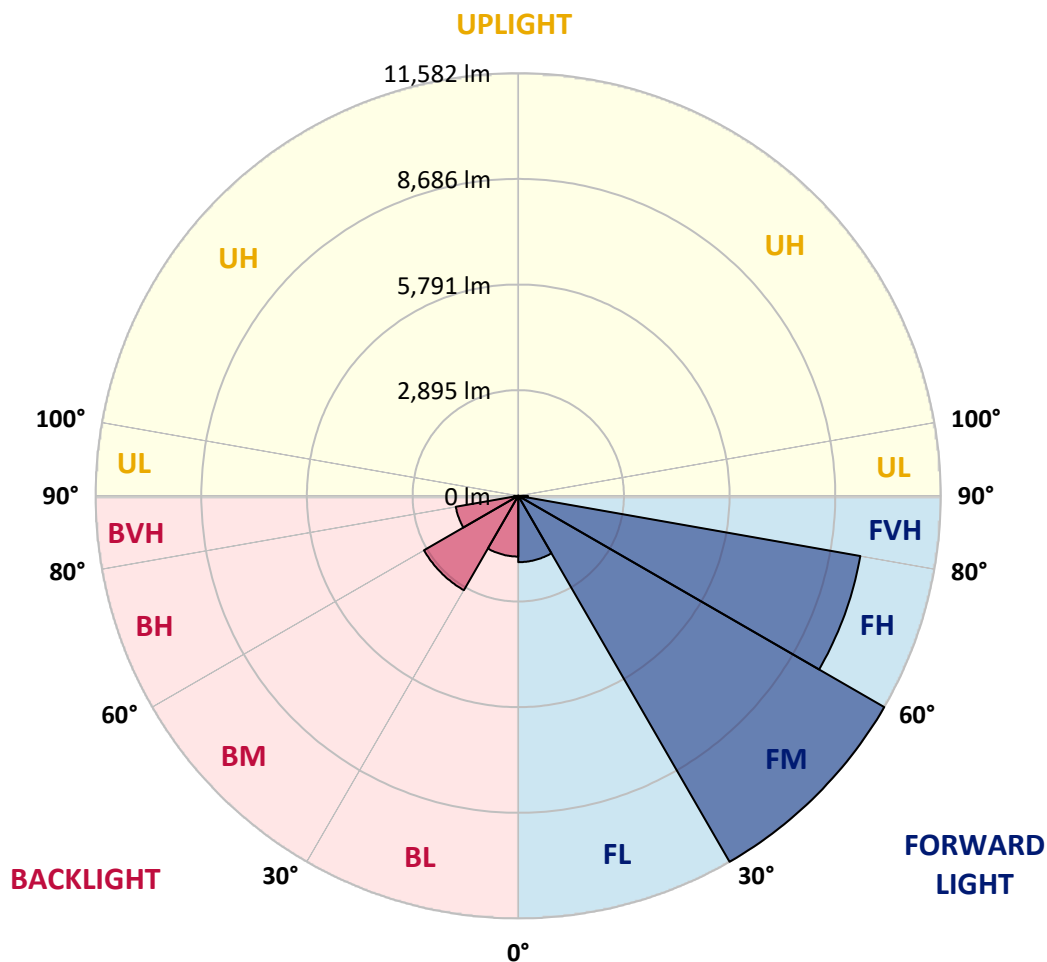


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.6	6.1			
FM (30°-60°)	11581.7	39.0			
FH (60°-80°)	9519.8	32.1			G4/12000
FVH (80°-90°)	262.8	0.9			G3/500
BL (0°-30°)	1665.5	5.6	B3/2500		
BM (30°-60°)	2984.3	10.1	B3/5000		
BH (60°-80°)	1737.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	113.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0
2.5°	3817.2	3815.8	3835.4	3841.6	3878.1	3903.9	3952.5	4004.3	4071.1	4078.7	4119.8
5°	3596.8	3596.8	3619.6	3644.0	3691.0	3742.8	3817.2	3906.9	4022.5	4040.8	4142.5
7.5°	3409.9	3422.0	3441.7	3488.9	3543.6	3618.0	3732.1	3859.8	4011.8	4040.8	4204.9
10°	3259.3	3273.0	3297.3	3335.4	3417.5	3520.8	3669.8	3834.0	4037.7	4083.3	4296.1
12.5°	3212.2	3225.9	3239.5	3268.4	3344.5	3466.0	3644.0	3846.1	4100.0	4145.6	4420.7
15°	3321.6	3338.4	3327.8	3320.2	3359.6	3470.6	3656.1	3890.2	4177.5	4242.9	4574.3
17.5°	3574.0	3580.1	3555.7	3484.3	3478.2	3537.5	3713.9	3951.1	4274.9	4346.3	4729.3
20°	3981.4	3970.7	3920.6	3779.3	3698.7	3686.5	3812.7	4042.2	4375.1	4451.2	4896.6
22.5°	4534.8	4522.6	4422.3	4198.8	4019.4	3900.8	3955.6	4160.8	4487.7	4572.8	5059.3
25°	5224.9	5208.2	5060.7	4756.7	4478.5	4185.2	4150.1	4317.4	4626.0	4705.1	5229.5
27.5°	6030.7	6017.0	5857.4	5456.1	5054.7	4574.3	4391.9	4501.3	4770.5	4860.1	5421.0
30°	6897.2	6936.7	6654.0	6222.2	5714.5	5082.1	4717.3	4727.8	4957.4	5038.0	5653.7
32.5°	7915.8	7984.1	7643.6	7096.3	6403.1	5633.9	5127.7	5044.0	5229.5	5296.4	5947.0
35°	8925.2	9002.7	8719.9	8114.8	7316.8	6284.6	5556.3	5407.4	5591.4	5664.3	6336.2
37.5°	9797.8	9901.1	9755.1	9229.2	8294.3	7069.0	6115.8	5834.6	6036.7	6128.0	6859.2
40°	10486.4	10644.5	10633.9	10305.5	9446.6	8020.6	6825.8	6362.1	6590.1	6688.9	7493.1
42.5°	11045.8	11182.6	11301.2	11284.5	10649.0	9101.5	7660.3	7047.7	7221.0	7335.0	8206.0
45°	11431.9	11577.9	11833.3	12108.4	11805.9	10258.4	8616.6	7861.0	8019.1	8190.9	9055.9
47.5°	11777.0	11942.8	12274.2	12710.4	12788.0	11419.8	9664.0	8808.1	8952.5	9130.4	9908.7
50°	11807.5	11950.4	12464.2	13082.9	13485.7	12535.6	10788.9	9870.8	10006.0	10196.0	10822.4
52.5°	11073.2	11298.2	12195.1	13072.2	13806.5	13469.0	11906.3	10975.9	11127.9	11356.0	11767.9
55°	8595.2	8925.2	11406.1	12664.9	13692.5	14072.5	12968.9	12151.1	12345.6	12584.2	12719.5
57.5°	7403.4	7547.8	9054.3	11923.0	13172.6	14229.2	13865.8	13338.3	13651.5	13912.9	13726.0
60°	6654.0	6774.0	7664.8	10769.2	12488.5	13981.3	14559.0	14445.0	14986.2	15297.8	14755.2
62.5°	5851.3	5965.3	6775.6	8992.0	11612.8	13569.4	14996.9	15466.6	16354.4	16694.9	15725.0
65°	5054.7	5152.0	5928.8	7555.5	10500.1	13157.4	15223.4	16349.9	17620.8	17973.4	16530.7
67.5°	4166.9	4247.5	4981.7	6374.3	9147.1	12593.4	15335.8	17044.5	18722.9	19025.4	16929.0
70°	3006.9	3069.3	3827.9	5041.1	7449.0	11623.5	15290.2	17537.1	19294.5	19536.2	16628.1
72.5°	1421.4	1477.6	2368.5	3273.0	5261.4	9735.4	14367.5	17146.4	18713.7	18593.7	14785.5
75°	758.6	807.2	1360.6	1795.4	2779.0	6673.7	11757.3	14770.4	15714.4	15130.6	10927.2
77.5°	513.8	551.9	842.2	1077.8	1269.4	3168.1	7556.9	10226.4	9838.8	8875.0	5472.8
80°	407.4	446.9	690.1	729.7	614.2	1144.7	3122.5	4734.0	3400.7	2719.6	1556.7
82.5°	313.1	357.2	580.8	529.0	334.5	469.8	909.1	1497.4	871.0	662.8	377.0
85°	191.6	238.7	456.0	337.5	188.5	214.3	308.6	416.6	266.0	221.9	135.3
87.5°	97.3	136.8	231.0	123.1	85.2	50.1	82.1	82.1	69.9	60.8	35.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0	4141.0
2.5°	4156.3	4186.6	4238.4	4287.0	4325.0	4361.5	4398.0	4417.8	4423.8	4448.1	4461.8
5°	4204.9	4261.1	4361.5	4455.8	4515.0	4551.5	4577.3	4592.5	4595.6	4603.2	4615.4
7.5°	4294.5	4384.2	4524.1	4618.3	4662.5	4659.4	4648.8	4610.8	4595.6	4582.0	4584.9
10°	4420.7	4539.3	4711.1	4776.5	4749.1	4676.2	4582.0	4470.9	4419.3	4369.1	4353.9
12.5°	4577.3	4727.8	4896.6	4893.6	4758.3	4571.3	4352.4	4182.1	4074.2	3996.6	3978.3
15°	4767.4	4940.7	5069.9	4966.5	4670.1	4334.1	4013.4	3791.4	3694.1	3608.9	3599.9
17.5°	4963.5	5149.0	5208.2	4943.7	4448.1	3982.9	3619.6	3444.8	3349.0	3303.4	3317.1
20°	5155.0	5339.0	5290.3	4813.0	4110.7	3584.6	3260.8	3165.1	3145.3	3156.0	3151.4
22.5°	5357.2	5521.4	5307.0	4560.6	3680.5	3177.2	2999.4	3002.4	3046.5	3078.4	3086.1
25°	5564.0	5674.9	5263.0	4195.7	3218.3	2877.8	2833.7	2882.3	2969.0	3031.3	3048.0
27.5°	5763.1	5811.7	5167.2	3744.2	2821.5	2663.4	2671.0	2771.3	2902.1	2988.7	3010.0
30°	5988.0	5933.4	4983.2	3236.5	2546.3	2479.5	2543.3	2660.4	2791.1	2868.7	2886.9
32.5°	6241.9	6038.3	4691.3	2766.8	2351.8	2332.0	2436.9	2512.9	2570.7	2593.5	2605.7
35°	6558.2	6185.8	4317.4	2436.9	2176.9	2224.0	2324.4	2286.4	2263.6	2251.4	2263.6
37.5°	6968.7	6384.8	3879.5	2222.5	2035.5	2146.6	2187.6	2069.0	1979.3	1935.2	1945.9
40°	7462.7	6676.7	3458.5	2056.9	1945.9	2079.6	2008.2	1865.3	1751.3	1689.0	1693.5
42.5°	8011.5	6982.3	3104.3	1932.2	1895.7	2024.9	1876.0	1705.7	1521.7	1501.9	1521.7
45°	8587.7	7297.0	2862.5	1836.4	1871.3	1977.8	1799.9	1524.8	1394.0	1474.6	1517.2
47.5°	9163.8	7585.8	2716.7	1764.9	1859.2	1924.5	1733.1	1424.4	1331.7	1448.7	1503.5
50°	9805.4	7844.2	2651.3	1713.3	1845.5	1903.3	1632.7	1398.6	1266.3	1343.9	1401.6
52.5°	10442.3	8044.9	2602.6	1661.6	1825.7	1886.6	1584.0	1368.2	1187.3	1191.9	1223.7
55°	11077.8	8175.7	2549.4	1593.2	1781.7	1850.1	1579.5	1334.8	1128.0	1106.7	1121.9
57.5°	11755.7	8250.1	2484.0	1517.2	1705.7	1757.4	1574.9	1308.9	1109.8	1074.8	1079.3
60°	12446.0	8359.6	2398.9	1424.4	1603.8	1646.4	1564.3	1299.8	1099.1	1039.9	1044.4
62.5°	13064.6	8397.6	2297.0	1336.3	1473.1	1536.9	1541.5	1292.2	1070.2	968.4	968.4
65°	13470.6	8233.4	2119.2	1235.9	1331.7	1424.4	1497.4	1266.3	1018.5	916.7	916.7
67.5°	13453.8	7765.2	1841.0	1106.7	1194.8	1299.8	1433.6	1222.2	956.2	852.8	857.4
70°	12827.5	6841.0	1488.3	956.2	1044.4	1166.0	1351.5	1156.9	881.7	782.9	792.0
72.5°	11001.7	5354.2	1080.9	779.8	869.6	1027.7	1245.1	1077.8	805.8	720.6	716.1
75°	7859.5	3388.5	732.8	599.0	676.5	871.0	1112.8	985.1	735.7	723.6	682.5
77.5°	4014.8	1619.0	484.9	437.8	471.3	687.2	934.9	880.2	746.4	597.5	532.1
80°	1305.8	597.5	305.6	298.0	313.1	457.6	723.6	722.1	565.5	405.9	358.7
82.5°	416.6	256.9	199.2	191.6	184.0	287.3	504.7	571.6	381.6	256.9	255.4
85°	165.7	153.5	117.1	107.9	77.5	135.3	264.6	380.1	284.2	185.4	190.0
87.5°	60.8	60.8	31.9	22.8	16.7	45.6	71.4	114.0	162.7	95.7	94.3
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)