

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: P962353

Luminaire Tested: **NAV-SB2C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962353
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-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 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: 12897.6 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

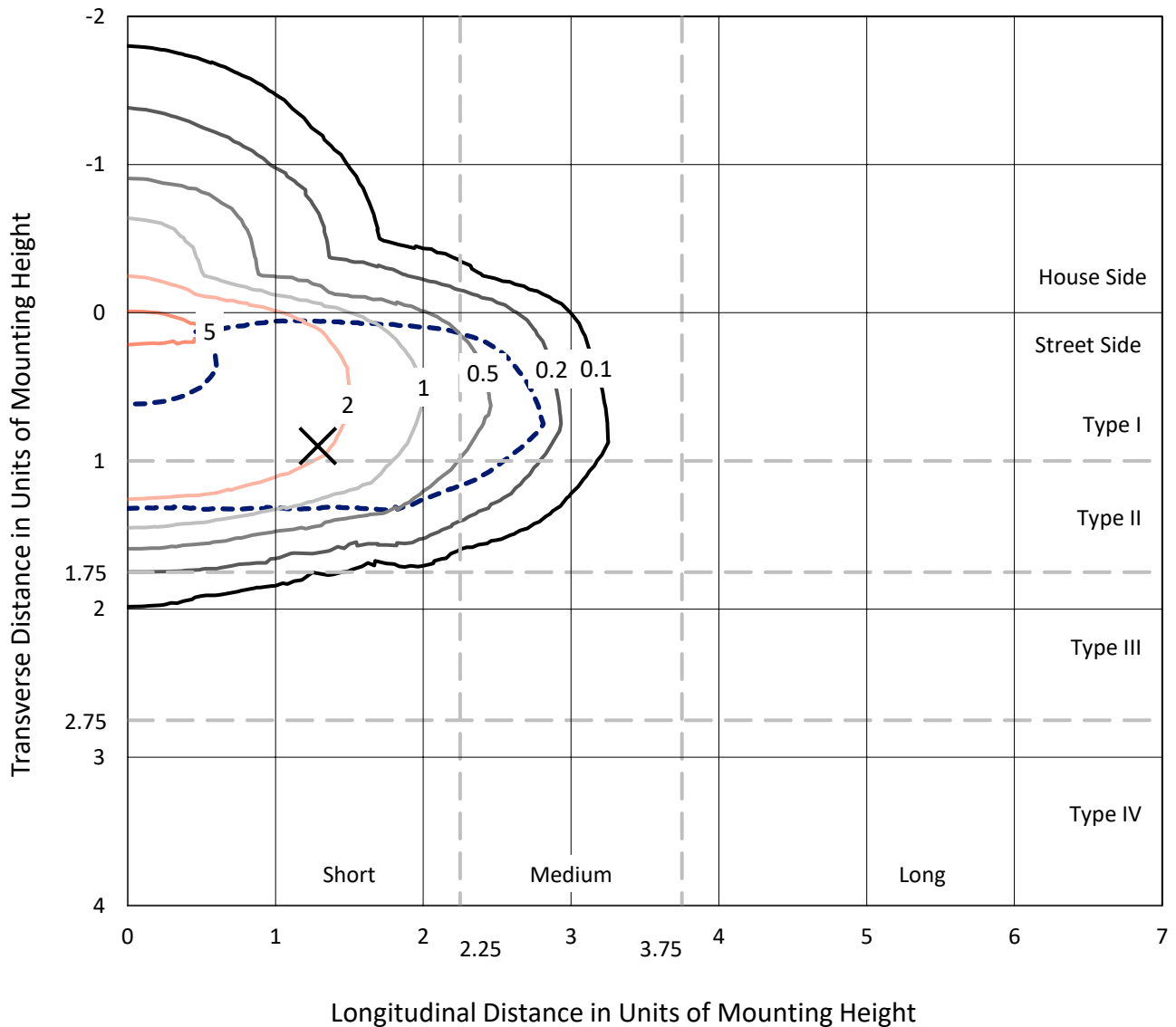
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

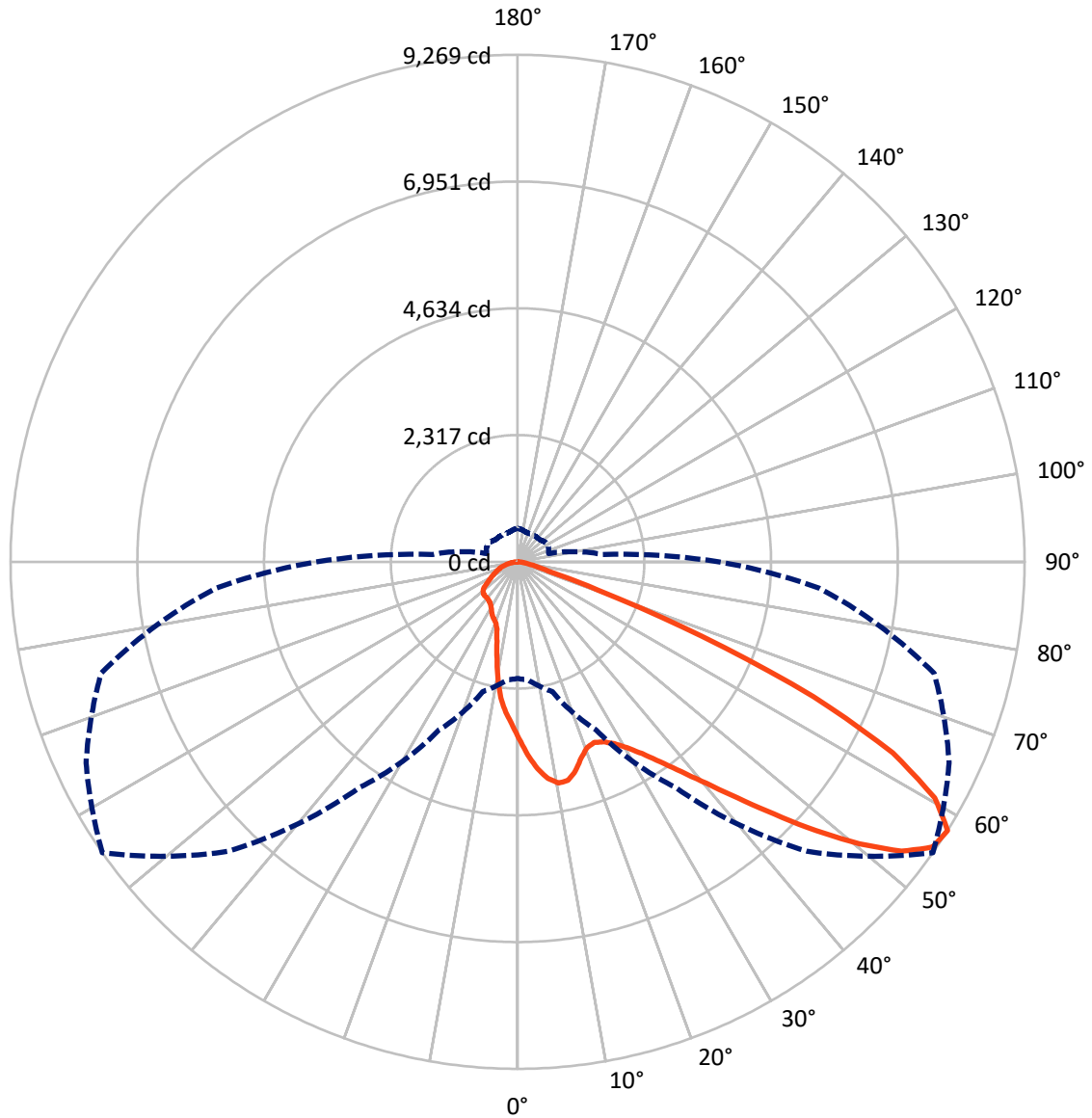
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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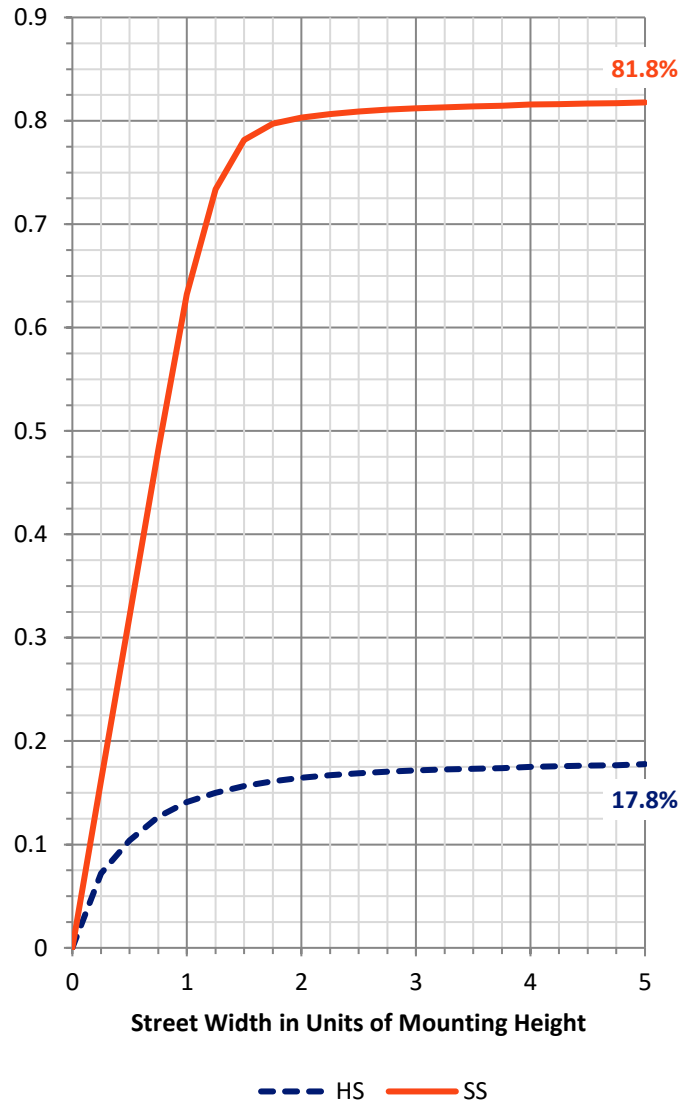
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2333.7	0.0	2333.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10563.8	0.0	10563.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	12897.6	0.0	12897.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	2.3
10°-20°	756.9	5.9
20°-30°	1207.8	9.4
30°-40°	1912.3	14.8
40°-50°	2927.0	22.7
50°-60°	3135.1	24.3
60°-70°	1972.3	15.3
70°-80°	583.2	4.5
80°-90°	103.1	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°	12897.6	100.0
0°-180°	12897.6	100.0

Coefficient of Utilization



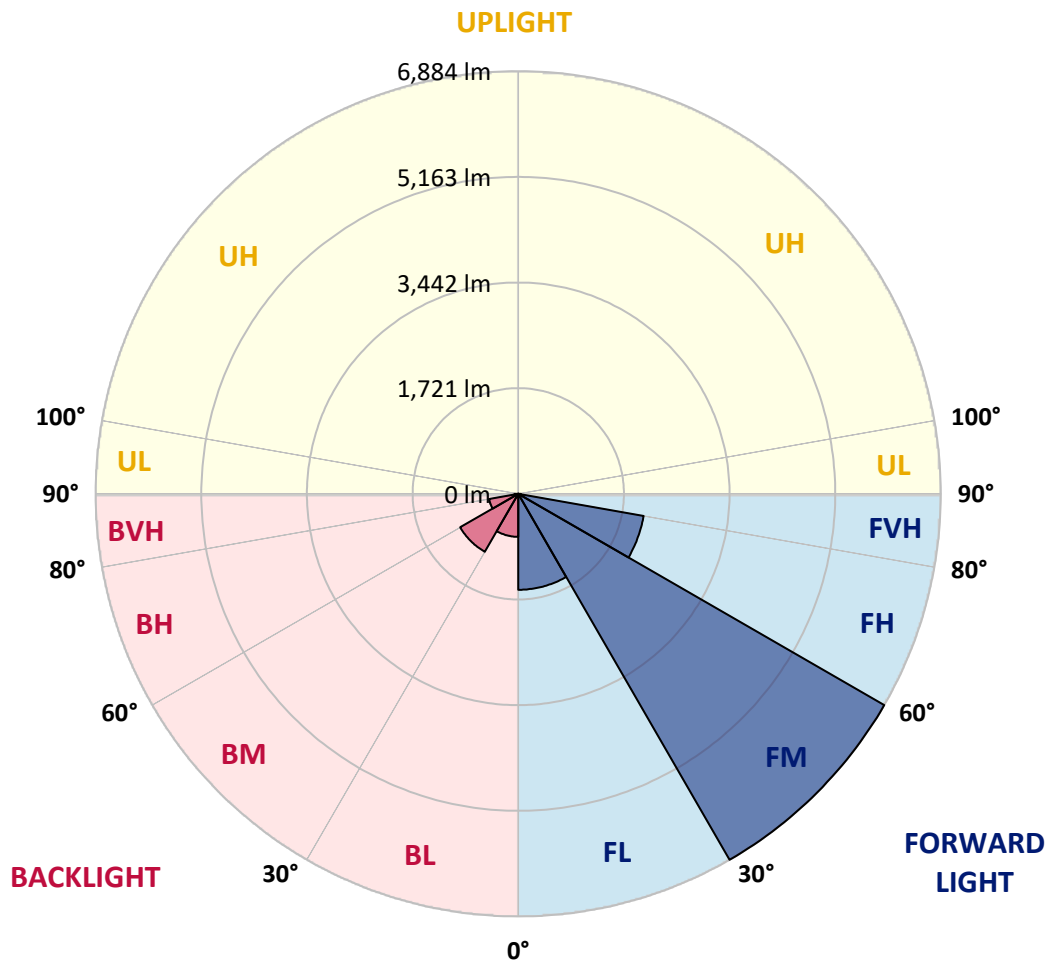
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1563.2	12.1			
FM (30°-60°)	6883.5	53.4			
FH (60°-80°)	2073.5	16.1			G2/5000
FVH (80°-90°)	43.6	0.3			G1/100
BL (0°-30°)	701.4	5.4	B2/1000		
BM (30°-60°)	1090.8	8.5	B2/2500		
BH (60°-80°)	482.0	3.7	B1/500		G1/500
BVH (80°-90°)	59.5	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°	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7
2.5°	3707.7	3705.1	3719.7	3669.8	3635.8	3589.8	3529.1	3451.8	3368.4	3280.4	3242.4
5°	4041.8	4018.5	4033.8	3996.5	3959.2	3889.8	3799.8	3673.8	3519.7	3344.4	3251.1
7.5°	3989.1	3973.1	4012.5	4045.8	4073.9	4065.2	3999.1	3867.1	3668.5	3413.8	3278.4
10°	3564.4	3546.4	3601.7	3717.1	3886.5	4033.8	4113.8	4031.8	3820.5	3489.7	3305.0
12.5°	3189.7	3181.1	3217.7	3311.1	3499.0	3781.7	4099.2	4175.8	3978.4	3579.7	3341.1
15°	3029.7	3019.0	3042.4	3089.7	3209.7	3473.1	3965.8	4274.5	4133.8	3683.7	3398.4
17.5°	2994.3	2982.3	2992.4	3017.0	3094.4	3295.1	3764.4	4323.1	4295.9	3799.8	3446.4
20°	3059.7	3049.7	3051.0	3049.7	3103.7	3263.1	3624.4	4304.5	4437.2	3906.5	3493.1
22.5°	3217.7	3201.1	3201.7	3166.3	3195.7	3319.1	3587.7	4254.5	4563.2	3999.8	3528.5
25°	3475.1	3445.0	3451.1	3361.1	3353.1	3444.4	3645.1	4215.8	4688.6	4074.5	3535.1
27.5°	3827.1	3793.1	3775.1	3641.1	3577.0	3622.5	3761.7	4229.2	4807.2	4139.2	3518.4
30°	4267.2	4225.9	4189.2	3999.1	3883.1	3866.5	3943.2	4317.2	4947.3	4207.1	3489.7
32.5°	4806.5	4758.6	4691.8	4439.9	4276.5	4189.2	4177.8	4473.8	5111.3	4293.8	3475.1
35°	5448.6	5386.0	5291.3	4965.2	4758.6	4579.9	4487.2	4699.9	5335.9	4424.5	3491.8
37.5°	6110.0	6039.4	5952.7	5564.6	5310.6	5047.3	4864.5	5006.6	5635.3	4601.8	3535.7
40°	6720.1	6640.8	6560.1	6214.8	5942.0	5624.7	5326.6	5394.7	6001.4	4813.9	3610.5
42.5°	7080.2	7021.5	6990.8	6804.2	6593.4	6271.4	5901.3	5854.7	6412.7	5058.0	3695.7
45°	7064.2	7040.2	7134.8	7212.2	7162.2	6983.5	6574.8	6363.4	6825.5	5269.3	3774.5
47.5°	6686.8	6702.8	6914.1	7348.8	7540.2	7633.6	7341.6	6862.8	7184.2	5427.3	3809.8
50°	5660.0	5673.4	6162.7	7100.2	7637.6	8163.6	8102.3	7350.2	7462.2	5524.0	3801.8
52.5°	4847.2	4855.9	5066.0	6362.8	7316.2	8430.3	8787.7	7809.6	7665.6	5550.7	3757.1
55°	3651.0	3681.1	3916.4	4992.0	6480.0	8219.0	9205.1	8283.0	7794.2	5553.3	3710.4
57.5°	2132.9	2165.6	2456.3	3388.4	5036.5	7482.2	9268.5	8703.1	7881.6	5532.0	3682.4
60°	1044.8	1058.8	1185.5	1780.8	3105.7	6062.7	8759.0	8906.4	7930.2	5520.6	3681.1
62.5°	704.1	702.1	707.5	878.7	1530.2	3895.1	7697.5	8550.3	7904.3	5477.3	3667.8
65°	605.4	598.1	578.1	616.7	792.7	1781.6	5947.4	7487.5	7706.3	5368.6	3576.4
67.5°	523.4	524.1	524.7	512.7	566.1	822.0	3634.4	5898.1	6995.5	4853.9	3224.3
70°	433.4	439.4	442.1	442.1	461.4	539.4	1551.5	4042.5	5518.0	3805.8	2596.9
72.5°	394.7	382.0	383.3	376.7	376.7	410.7	624.7	2291.6	3476.4	2140.9	1584.9
75°	322.1	330.0	331.4	326.7	311.4	313.3	370.7	961.4	1487.5	888.1	783.4
77.5°	278.1	278.1	280.7	277.4	265.4	234.7	247.3	372.7	506.0	364.1	391.3
80°	223.3	222.7	234.0	240.7	222.0	173.3	158.1	206.0	224.7	160.0	203.4
82.5°	108.6	115.3	160.7	183.4	168.7	125.4	96.7	128.0	120.0	70.7	91.3
85°	63.3	60.0	72.1	102.0	96.7	69.4	46.6	66.6	62.6	36.0	36.7
87.5°	20.0	18.7	14.7	34.6	28.0	19.4	12.7	19.4	17.3	8.0	8.0
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°	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7	3231.7
2.5°	3195.0	3116.4	3038.4	2967.0	2923.7	2895.6	2867.6	2836.4	2824.3	2806.3
5°	3163.0	3011.0	2875.6	2759.0	2653.0	2569.7	2485.6	2417.7	2386.9	2407.6
7.5°	3144.4	2924.3	2715.6	2501.6	2295.6	2130.9	1987.6	1886.9	1841.5	1852.9
10°	3127.7	2826.3	2508.3	2170.2	1874.2	1670.2	1523.6	1446.8	1418.2	1424.1
12.5°	3112.4	2716.4	2258.3	1813.5	1498.9	1364.2	1322.1	1322.9	1328.2	1332.2
15°	3109.7	2583.6	1978.9	1501.5	1296.1	1287.5	1332.8	1361.5	1376.8	1381.5
17.5°	3105.7	2424.9	1694.2	1288.8	1246.8	1305.4	1347.5	1366.1	1378.1	1378.8
20°	3089.7	2223.6	1431.5	1187.5	1236.1	1286.8	1312.8	1327.5	1337.5	1340.8
22.5°	3040.4	1999.6	1226.8	1142.2	1193.5	1234.1	1264.8	1281.5	1287.5	1291.5
25°	2951.7	1748.9	1085.5	1098.8	1134.2	1185.5	1210.1	1213.5	1211.4	1217.5
27.5°	2835.7	1480.2	997.4	1040.2	1085.5	1129.4	1142.8	1140.8	1136.8	1143.5
30°	2695.6	1238.8	941.5	974.2	1036.2	1076.1	1088.1	1083.4	1075.4	1082.8
32.5°	2547.6	1041.5	895.4	928.1	995.5	1034.7	1046.8	1042.1	1036.2	1042.1
35°	2409.6	903.4	852.8	897.5	963.4	1002.1	1017.4	1018.1	1018.1	1025.4
37.5°	2283.0	822.8	817.4	878.1	941.5	976.1	998.1	999.5	970.8	972.8
40°	2165.6	788.7	801.4	865.4	920.1	953.5	954.8	880.1	827.4	826.0
42.5°	2069.6	782.1	806.1	864.1	904.8	906.1	812.1	754.1	739.4	740.0
45°	1979.6	780.1	816.7	864.1	882.1	782.8	719.4	704.1	705.4	710.7
47.5°	1878.9	772.1	818.8	852.1	816.7	696.1	677.4	670.8	668.1	669.4
50°	1768.8	743.4	793.5	828.1	704.8	658.8	635.4	633.4	636.7	638.8
52.5°	1652.8	696.8	750.1	784.7	653.4	626.1	600.0	604.8	619.4	624.1
55°	1576.9	642.1	692.8	698.1	617.4	595.4	573.4	584.0	611.4	620.0
57.5°	1556.9	584.0	627.4	621.5	571.4	568.8	555.4	564.8	599.4	612.0
60°	1550.8	532.1	563.4	558.7	526.7	539.4	536.1	540.7	552.8	556.8
62.5°	1504.2	490.8	506.0	499.4	486.8	508.7	516.7	506.8	516.1	520.7
65°	1385.5	457.4	450.1	445.4	450.7	470.7	486.8	466.7	475.4	488.7
67.5°	1189.5	412.0	392.1	397.4	414.0	424.8	445.4	422.7	430.1	452.7
70°	962.1	354.8	336.7	352.1	368.1	390.0	393.4	378.0	395.3	420.8
72.5°	680.7	296.7	284.0	315.4	320.7	349.4	342.0	334.7	358.7	367.4
75°	472.0	239.3	232.1	256.0	275.3	300.0	294.7	303.4	354.0	358.0
77.5°	298.7	186.0	181.3	196.7	223.3	250.7	259.3	358.0	604.8	628.7
80°	173.3	138.7	133.4	145.3	168.7	194.0	250.0	439.4	398.7	394.0
82.5°	96.7	95.3	88.7	92.0	112.6	140.0	353.4	309.3	251.3	259.3
85°	45.3	56.0	48.0	46.0	63.3	164.0	236.1	176.7	117.4	114.7
87.5°	12.0	10.7	10.7	12.0	26.6	141.3	94.0	75.3	44.7	43.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)