

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: P968676

Luminaire Tested: **NAV-SB5C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27312.1 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

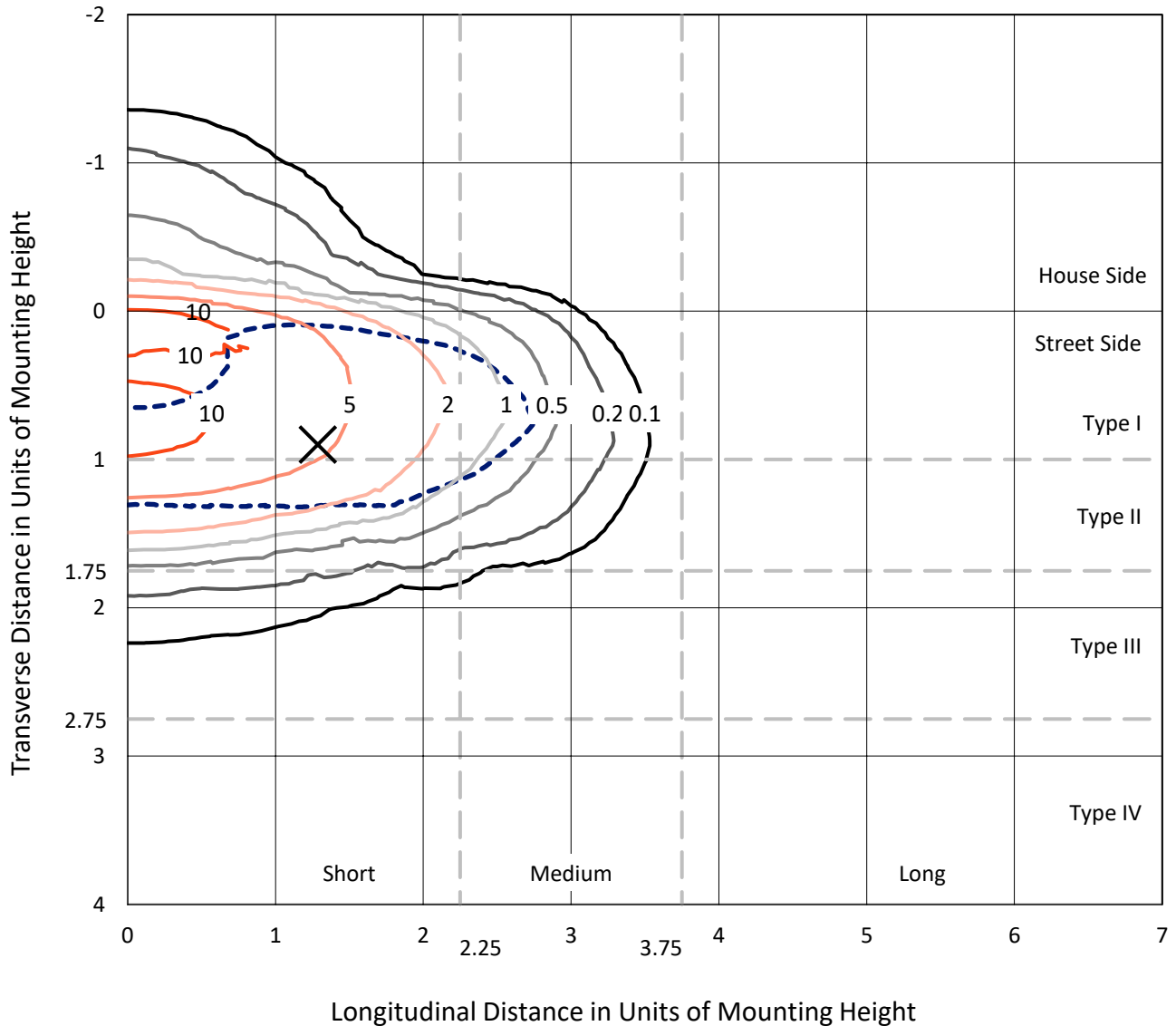
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P968676
 CATALOG NUMBER: NAV-SB5C-722-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

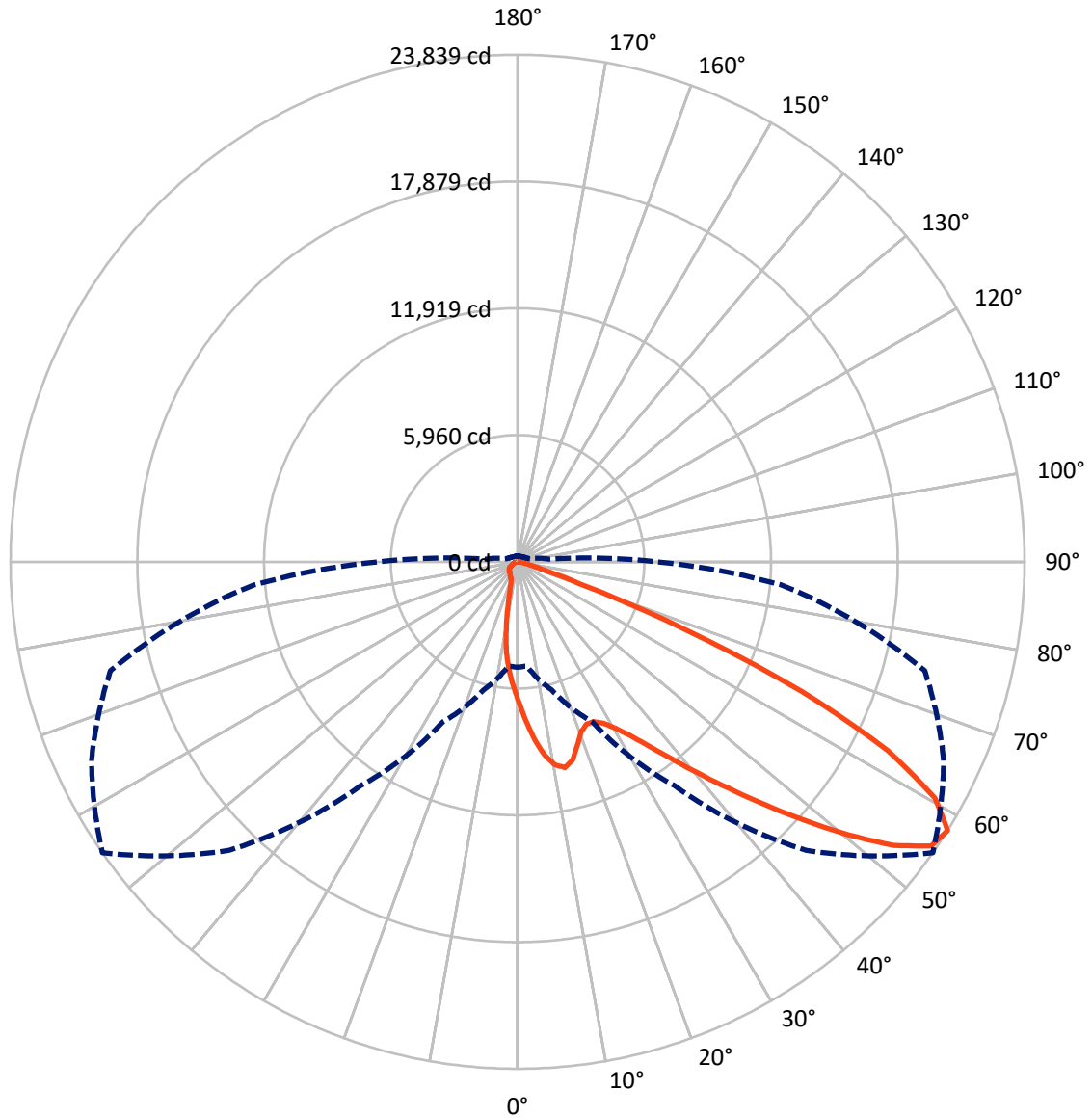
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

REPORT NUMBER: P968676
CATALOG NUMBER: NAV-SB5C-722-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P968676
 CATALOG NUMBER: NAV-SB5C-722-U-AFL-HSS

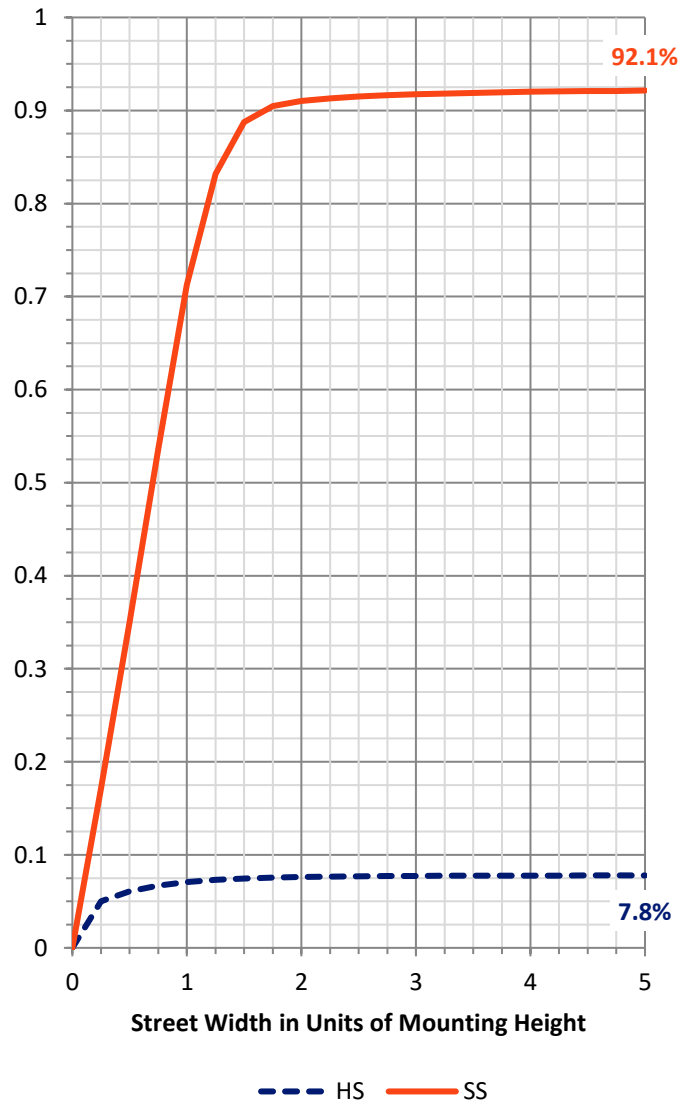
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2133.0	0.0	2133.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	25179.2	0.0	25179.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	27312.1	0.0	27312.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.4	2.2
10°-20°	1479.2	5.4
20°-30°	2366.7	8.7
30°-40°	4005.8	14.7
40°-50°	6576.6	24.1
50°-60°	7228.2	26.5
60°-70°	4146.1	15.2
70°-80°	847.2	3.1
80°-90°	50.0	0.2
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°	27312.1	100.0
0°-180°	27312.1	100.0

Coefficient of Utilization

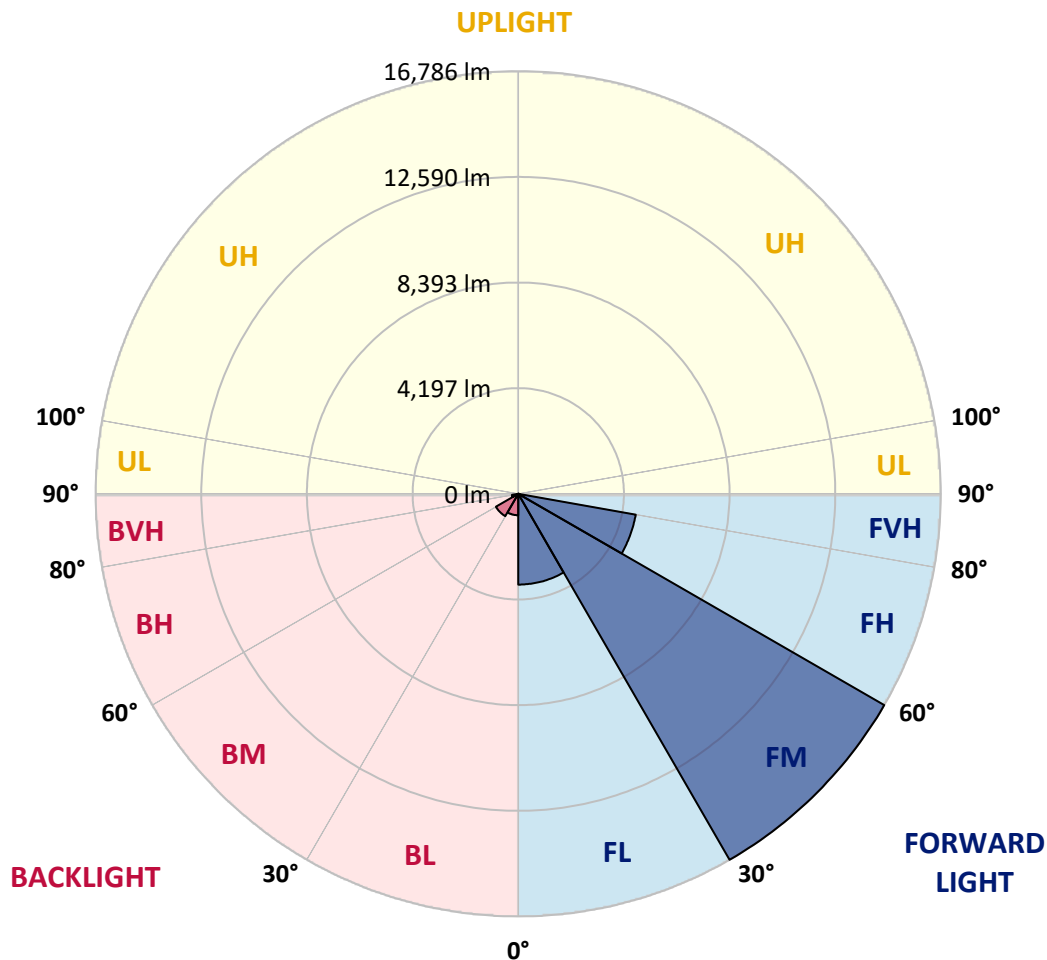


REPORT NUMBER: P968676
 CATALOG NUMBER: NAV-SB5C-722-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3606.7	13.2			
FM (30°-60°)	16786.2	61.5			
FH (60°-80°)	4739.6	17.4			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	851.5	3.1	B2/1000		
BM (30°-60°)	1024.4	3.8	B2/2500		
BH (60°-80°)	253.7	0.9	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
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



REPORT NUMBER: P968676
 CATALOG NUMBER: NAV-SB5C-722-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5
2.5°	8166.3	8063.6	8048.4	8028.2	7832.8	7686.4	7474.1	7241.7	6980.7	6714.6	6596.7
5°	9434.5	9353.6	9338.5	9244.2	9021.8	8772.6	8395.4	7918.7	7432.1	6859.4	6613.5
7.5°	9680.3	9665.1	9734.2	9730.8	9700.6	9503.5	9185.2	8617.7	7886.8	7038.0	6657.4
10°	8584.0	8622.7	8828.2	9008.4	9495.1	9778.0	9709.0	9240.8	8355.0	7241.7	6706.2
12.5°	7585.3	7539.8	7686.4	7890.1	8455.9	9298.1	9926.2	9761.2	8890.4	7472.5	6778.6
15°	6958.8	6940.3	7022.8	7117.1	7548.2	8397.0	9673.6	10183.9	9405.8	7745.3	6888.1
17.5°	6758.3	6743.3	6768.5	6792.1	7071.7	7728.4	9072.4	10443.2	9899.2	8056.8	7009.4
20°	6921.7	6901.5	6898.1	6879.6	6995.8	7443.9	8528.4	10461.8	10342.2	8339.8	7113.7
22.5°	7398.3	7374.8	7292.3	7218.2	7228.3	7482.6	8285.9	10276.5	10675.7	8604.2	7179.4
25°	8262.3	8223.6	8051.8	7802.5	7644.2	7752.0	8322.9	10032.3	10993.9	8811.3	7147.4
27.5°	9343.5	9293.0	9072.4	8701.8	8339.8	8208.4	8590.7	9863.9	11258.4	8969.7	7078.3
30°	10402.8	10337.1	10119.9	9831.9	9303.1	8888.8	9074.0	9938.0	11573.3	9134.7	6987.4
32.5°	11546.3	11484.0	11196.1	10839.1	10401.2	9843.7	9736.0	10300.1	11959.0	9365.4	6923.5
35°	12993.0	12895.3	12486.1	11999.4	11534.5	10970.4	10631.9	10924.9	12472.6	9717.4	6958.8
37.5°	14640.1	14508.8	14067.5	13395.5	12789.2	12157.7	11723.2	11783.8	13225.5	10188.9	7068.3
40°	16192.8	16073.2	15665.7	15032.4	14271.3	13505.0	13041.9	12907.1	14264.5	10763.2	7260.3
42.5°	17124.2	17016.4	16844.6	16576.8	15935.2	15153.7	14569.4	14278.0	15493.9	11450.4	7494.4
45°	17176.3	17082.0	17312.8	17624.4	17498.1	16977.7	16265.3	15731.4	16728.4	12095.4	7736.9
47.5°	16341.1	16277.1	16977.7	18065.6	18607.8	18826.8	18170.0	17063.6	17747.3	12558.5	7836.2
50°	14064.1	14040.6	15482.1	17479.5	19030.6	20446.9	20179.2	18303.0	18537.1	12797.6	7741.9
52.5°	12194.7	12108.8	12949.2	15603.4	18415.9	21299.1	22142.9	19519.0	19089.5	12843.1	7521.2
55°	9249.2	9173.4	10227.7	12464.2	16433.7	20996.0	23579.4	20773.7	19485.4	12726.9	7125.5
57.5°	4961.4	4914.3	6246.5	8296.0	12846.5	19177.1	23838.7	22100.7	19818.8	12418.7	6571.5
60°	1931.7	1923.3	2421.8	4025.1	7807.6	15601.7	22530.2	22897.4	20027.6	12039.8	6108.3
62.5°	1168.8	1194.0	1274.9	1807.1	3449.1	9692.1	19513.9	21991.3	20167.4	11692.9	5726.1
65°	966.7	968.4	978.5	1241.2	1652.1	4055.4	14690.6	19010.4	19822.2	11074.8	5183.7
67.5°	828.6	843.8	882.5	985.2	1165.4	1778.5	8457.7	14726.0	17722.0	9636.5	4338.3
70°	653.4	673.6	722.5	810.1	899.3	1113.3	3125.7	9798.2	13538.7	7263.7	3280.7
72.5°	550.7	549.0	574.3	658.5	714.1	783.1	1202.4	5490.2	7868.2	3467.6	1623.5
75°	426.1	442.9	474.9	550.7	584.4	567.5	651.8	2005.8	2819.3	1050.9	552.4
77.5°	333.4	347.0	375.6	449.7	483.4	402.5	375.6	717.4	906.1	377.2	249.3
80°	149.9	161.6	255.9	331.8	394.1	277.9	203.8	367.2	402.5	171.8	126.3
82.5°	27.0	45.5	149.9	175.2	202.1	180.2	106.1	190.3	197.0	69.1	43.8
85°	1.6	3.4	52.2	64.0	80.9	58.9	32.0	75.7	65.7	23.6	16.8
87.5°	0.0	0.0	0.0	1.6	1.6	8.4	10.1	13.4	10.1	8.4	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P968676
 CATALOG NUMBER: NAV-SB5C-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5	6581.5
2.5°	6475.4	6236.3	6003.9	5813.6	5702.5	5513.8	5389.2	5369.0	5316.8	5362.3
5°	6350.8	5923.1	5490.2	5102.9	4784.6	4373.7	4067.2	3937.4	3824.7	3863.4
7.5°	6291.9	5616.6	4942.9	4281.0	3600.6	2943.8	2455.5	2251.7	2096.7	2118.7
10°	6212.7	5298.2	4242.3	3231.8	2320.7	1672.3	1335.5	1210.9	1141.8	1143.5
12.5°	6152.2	4917.6	3428.8	2191.0	1413.0	1067.7	963.3	933.0	912.8	914.5
15°	6121.8	4469.6	2625.5	1460.1	1010.4	904.4	879.1	865.6	852.2	850.4
17.5°	6071.3	3971.2	1921.6	1066.0	884.2	847.2	825.2	810.1	793.2	789.9
20°	5995.4	3405.3	1404.6	901.0	828.6	799.9	769.7	749.5	729.2	725.9
22.5°	5855.7	2807.5	1079.5	833.6	788.1	756.1	719.1	695.6	675.4	672.0
25°	5596.3	2246.6	909.4	791.5	752.8	714.1	673.6	641.6	623.1	619.7
27.5°	5268.0	1764.9	825.2	752.8	707.4	672.0	626.5	596.1	579.3	575.9
30°	4880.6	1359.0	776.3	709.0	653.4	623.1	582.7	557.4	547.3	547.3
32.5°	4463.0	1086.3	756.1	665.2	606.3	572.6	540.6	530.5	527.2	525.4
35°	4070.5	943.1	746.1	629.9	564.2	532.2	518.8	520.4	527.2	527.2
37.5°	3721.9	897.6	741.0	604.6	527.2	498.5	507.0	522.0	515.4	515.4
40°	3407.0	902.7	737.7	586.1	496.8	480.0	496.8	485.0	468.2	466.5
42.5°	3166.1	944.7	730.9	570.9	478.3	466.5	459.8	441.3	439.5	442.9
45°	2991.1	981.8	729.2	564.2	458.1	436.1	427.7	409.3	442.9	451.3
47.5°	2783.9	981.8	729.2	540.6	424.4	415.9	402.5	382.3	415.9	424.4
50°	2516.1	919.5	700.6	513.6	397.5	392.4	368.8	343.6	336.8	341.8
52.5°	2177.6	806.7	628.2	476.6	370.5	360.4	331.8	313.2	308.2	308.2
55°	1791.9	675.4	530.5	422.7	341.8	323.4	303.1	294.7	289.7	286.3
57.5°	1456.7	554.1	426.1	375.6	314.9	291.3	284.6	274.5	266.1	261.1
60°	1195.8	436.1	352.0	333.4	288.0	266.1	264.4	250.9	229.1	225.7
62.5°	922.9	320.0	296.4	289.7	261.1	242.5	239.1	212.2	178.6	171.8
65°	651.8	249.3	239.1	254.3	232.4	215.6	207.2	166.8	131.4	126.3
67.5°	458.1	208.8	188.6	222.3	202.1	180.2	175.2	141.4	109.5	106.1
70°	326.8	170.0	155.0	190.3	161.6	158.3	148.2	117.9	89.3	85.9
72.5°	230.7	129.7	119.6	165.0	111.1	136.4	121.3	90.9	67.3	64.0
75°	170.0	92.7	84.3	96.0	80.9	102.7	85.9	60.6	42.1	40.4
77.5°	124.6	58.9	50.5	47.2	47.2	64.0	47.2	25.2	18.6	16.8
80°	87.5	27.0	23.6	20.2	18.6	15.2	6.8	3.4	1.6	1.6
82.5°	52.2	11.8	11.8	8.4	5.0	0.0	0.0	0.0	0.0	0.0
85°	11.8	5.0	5.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)