

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: P969730

Luminaire Tested: **NAV-SB6A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969730
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-SB6A-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA 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: 19638 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

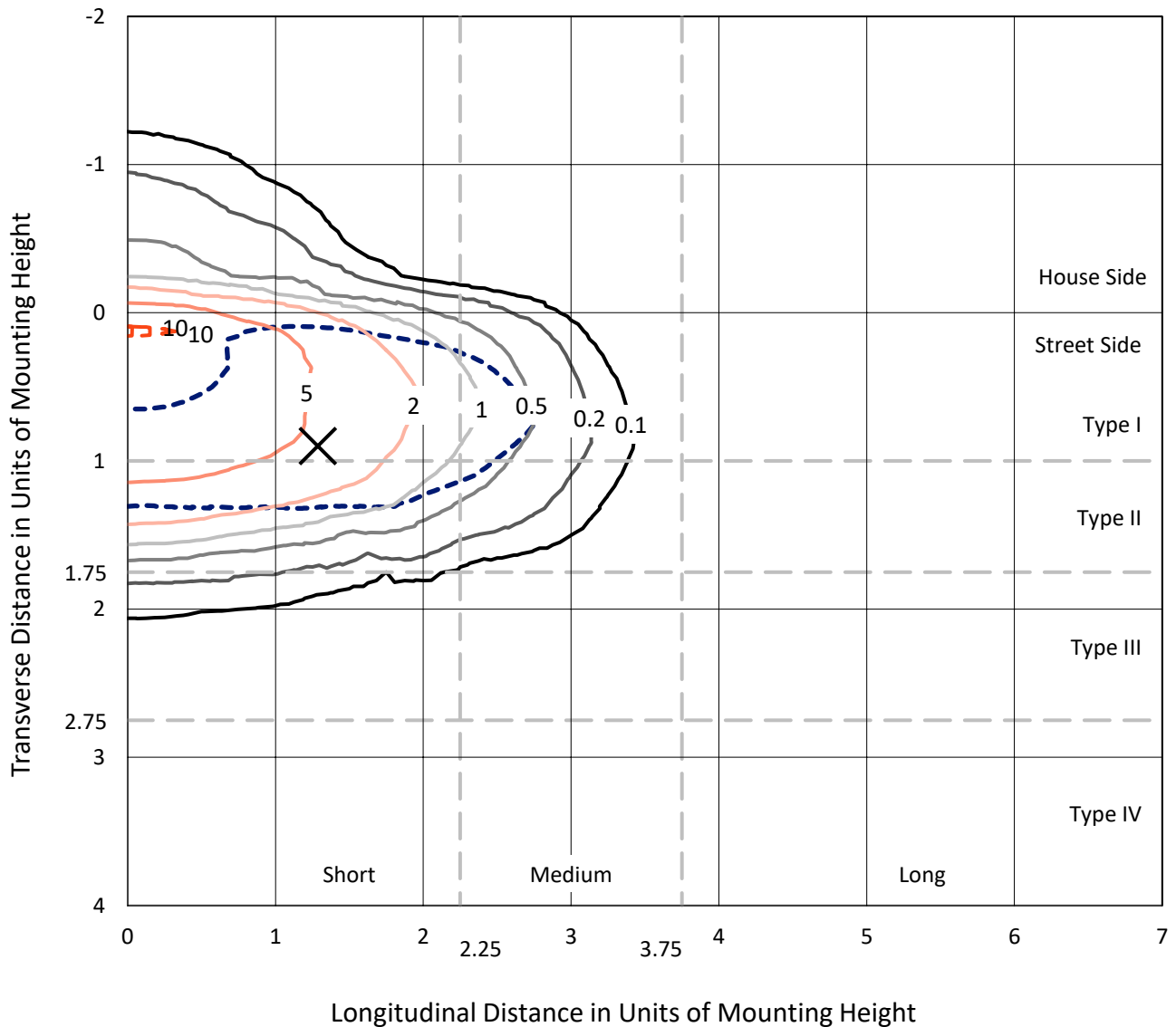
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P969730
 CATALOG NUMBER: NAV-SB6A-722-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

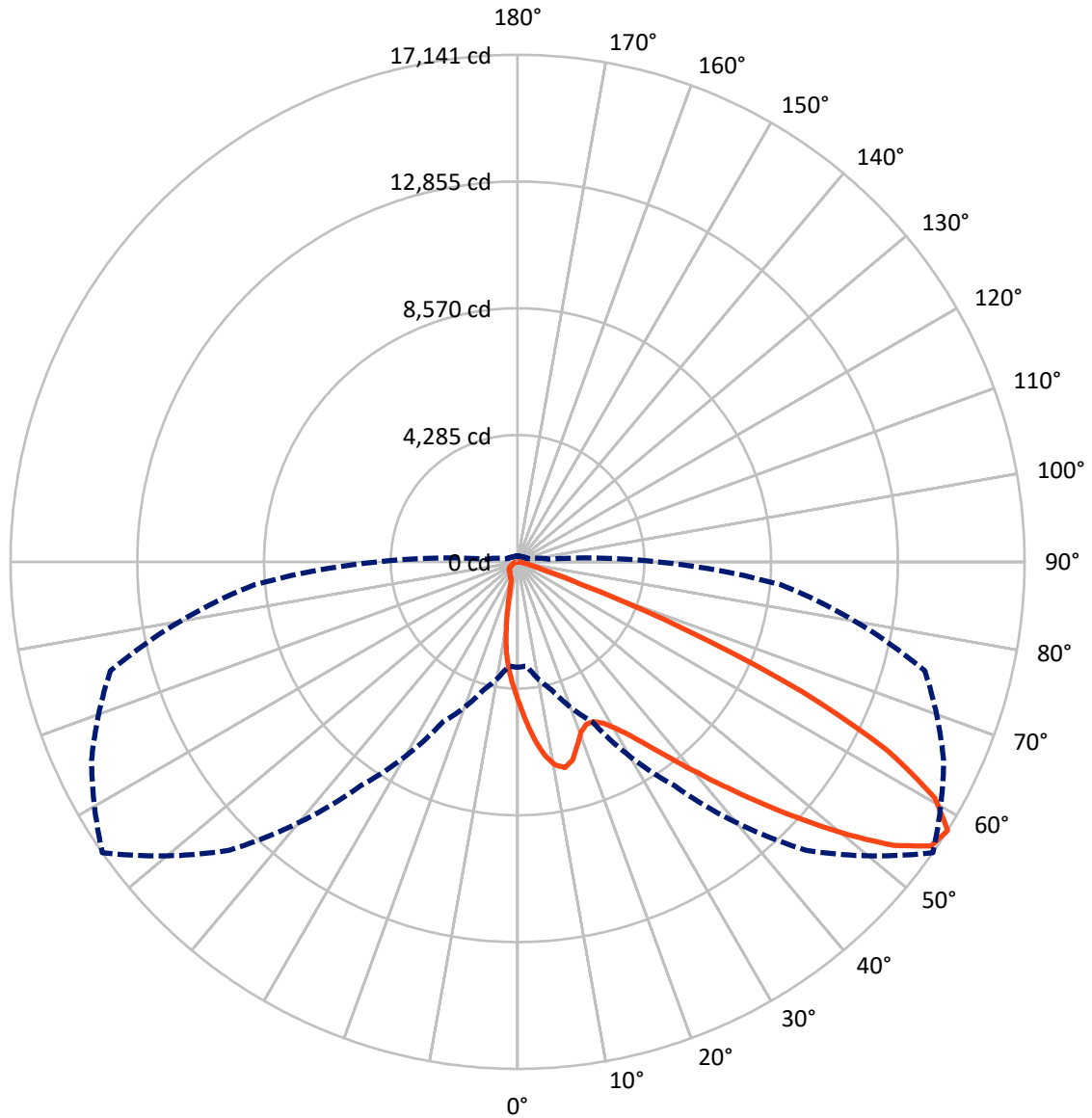
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P969730
CATALOG NUMBER: NAV-SB6A-722-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P969730
 CATALOG NUMBER: NAV-SB6A-722-U-AFL-HSS

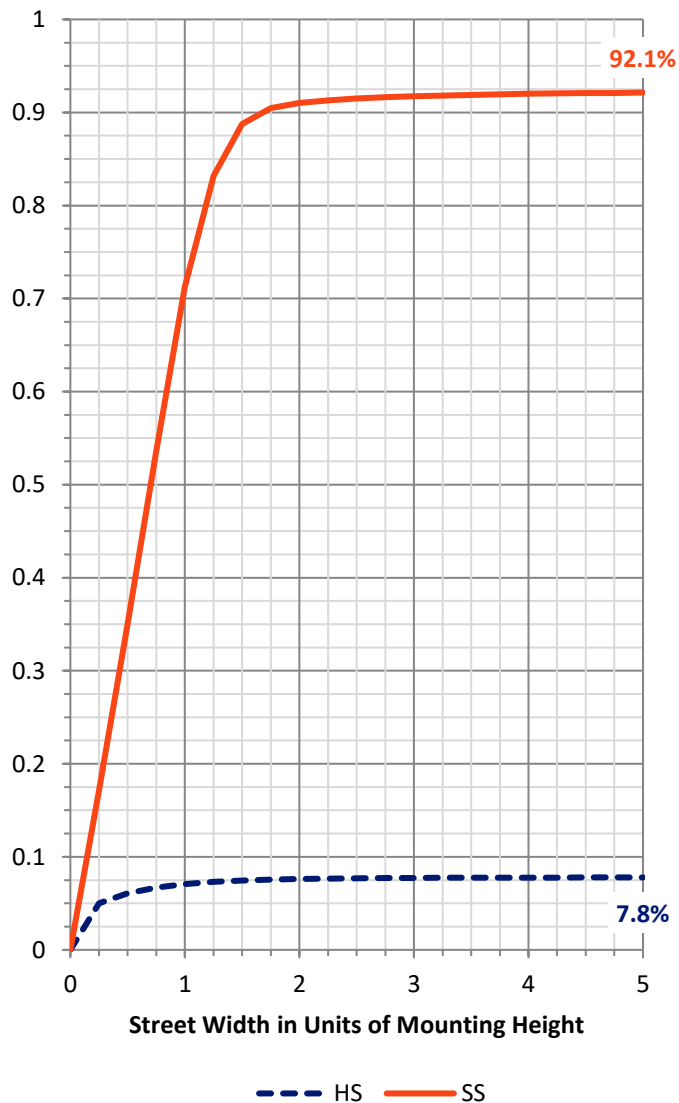
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.6	0.0	1533.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	18104.3	0.0	18104.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	19638.0	0.0	19638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.3	2.2
10°-20°	1063.6	5.4
20°-30°	1701.7	8.7
30°-40°	2880.2	14.7
40°-50°	4728.7	24.1
50°-60°	5197.2	26.5
60°-70°	2981.1	15.2
70°-80°	609.1	3.1
80°-90°	35.9	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°	19638.0	100.0
0°-180°	19638.0	100.0

Coefficient of Utilization

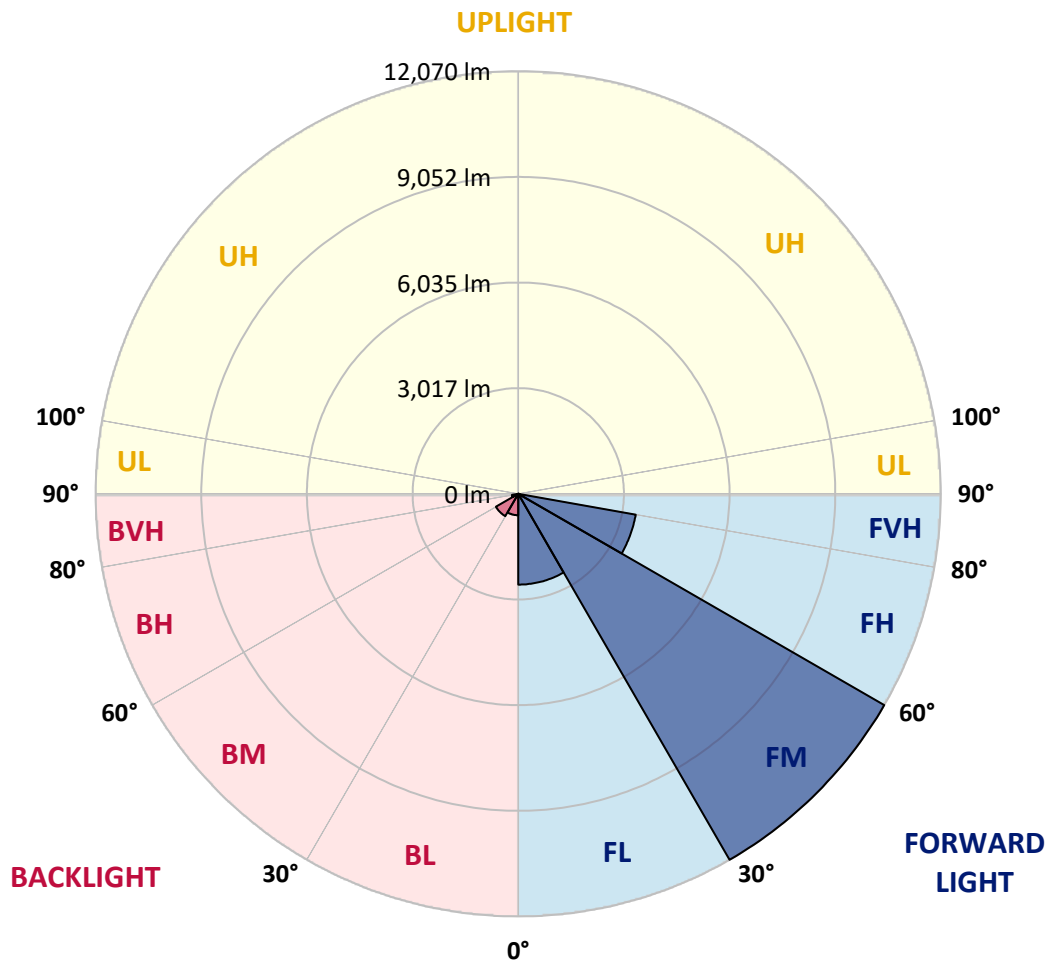


REPORT NUMBER: P969730
 CATALOG NUMBER: NAV-SB6A-722-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2593.3	13.2			
FM (30°-60°)	12069.6	61.5			
FH (60°-80°)	3407.9	17.4			G2/5000
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	612.3	3.1	B2/1000		
BM (30°-60°)	736.5	3.8	B1/1000		
BH (60°-80°)	182.4	0.9	B1/500		G1/500
BVH (80°-90°)	2.4	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: P969730
 CATALOG NUMBER: NAV-SB6A-722-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2
2.5°	5871.7	5797.9	5786.9	5772.5	5632.0	5526.6	5374.1	5206.9	5019.2	4828.0	4743.2
5°	6783.6	6725.4	6714.6	6646.7	6486.9	6307.6	6036.4	5693.8	5343.7	4932.1	4755.3
7.5°	6960.4	6949.5	6999.1	6996.6	6974.9	6833.2	6604.4	6196.2	5670.7	5060.4	4786.8
10°	6172.0	6199.9	6347.6	6477.2	6827.1	7030.6	6981.0	6644.4	6007.3	5206.9	4821.9
12.5°	5454.0	5421.3	5526.6	5673.2	6080.0	6685.5	7137.2	7018.5	6392.4	5372.8	4874.0
15°	5003.5	4990.2	5049.6	5117.3	5427.4	6037.7	6955.5	7322.4	6763.0	5569.0	4952.7
17.5°	4859.4	4848.6	4866.7	4883.6	5084.6	5556.9	6523.2	7508.9	7117.8	5793.0	5039.8
20°	4976.9	4962.3	4959.9	4946.6	5030.2	5352.2	6132.1	7522.3	7436.3	5996.5	5115.0
22.5°	5319.5	5302.6	5243.3	5190.0	5197.3	5380.1	5957.7	7389.0	7676.0	6186.6	5162.1
25°	5940.8	5912.9	5789.4	5610.1	5496.4	5573.8	5984.4	7213.4	7904.9	6335.5	5139.1
27.5°	6718.2	6681.9	6523.2	6256.8	5996.5	5902.1	6176.9	7092.4	8094.9	6449.3	5089.5
30°	7479.8	7432.6	7276.4	7069.3	6689.2	6391.2	6524.4	7145.6	8321.5	6568.0	5024.1
32.5°	8302.1	8257.3	8050.1	7793.5	7478.6	7077.8	7000.3	7405.9	8598.7	6733.9	4978.1
35°	9342.3	9272.0	8977.8	8627.8	8293.6	7887.9	7644.6	7855.2	8968.0	6987.0	5003.5
37.5°	10526.5	10432.0	10114.8	9631.6	9195.7	8741.6	8429.2	8472.8	9509.3	7326.1	5082.3
40°	11643.0	11557.0	11263.9	10808.6	10261.3	9710.3	9377.3	9280.5	10256.5	7739.0	5220.2
42.5°	12312.6	12235.1	12111.6	11919.1	11457.8	10895.9	10475.6	10266.2	11140.4	8233.0	5388.6
45°	12350.1	12282.4	12448.2	12672.3	12581.5	12207.2	11695.0	11311.2	12028.1	8696.8	5563.0
47.5°	11749.6	11703.6	12207.2	12989.5	13379.4	13536.9	13064.5	12269.0	12760.6	9029.8	5634.4
50°	10112.3	10095.4	11132.0	12568.1	13683.3	14701.8	14509.2	13160.3	13328.6	9201.7	5566.6
52.5°	8768.3	8706.5	9310.8	11219.1	13241.4	15314.5	15921.1	14034.5	13725.8	9234.4	5408.0
55°	6650.4	6595.9	7353.9	8962.0	11816.1	15096.5	16954.1	14936.7	14010.3	9150.9	5123.4
57.5°	3567.4	3533.5	4491.3	5965.0	9236.9	13788.7	17140.6	15890.9	14250.1	8929.3	4725.0
60°	1388.9	1382.8	1741.3	2894.1	5613.8	11217.9	16199.6	16463.7	14400.2	8656.8	4392.0
62.5°	840.4	858.5	916.7	1299.3	2480.0	6968.9	14030.9	15812.2	14500.8	8407.4	4117.1
65°	695.1	696.3	703.6	892.5	1187.9	2915.9	10562.8	13668.9	14252.5	7963.0	3727.2
67.5°	595.7	606.7	634.5	708.4	837.9	1278.7	6081.2	10588.2	12742.5	6928.9	3119.3
70°	469.9	484.4	519.5	582.4	646.7	800.4	2247.4	7045.1	9734.5	5222.7	2358.8
72.5°	396.0	394.7	413.0	473.4	513.4	563.0	864.6	3947.6	5657.4	2493.3	1167.4
75°	306.4	318.5	341.5	396.0	420.1	408.1	468.6	1442.2	2027.0	755.6	397.2
77.5°	239.7	249.5	270.0	323.3	347.6	289.5	270.0	515.9	651.5	271.2	179.2
80°	107.7	116.2	184.1	238.5	283.3	199.8	146.5	263.9	289.5	123.5	90.8
82.5°	19.4	32.7	107.7	126.0	145.3	129.6	76.3	136.8	141.7	49.6	31.5
85°	1.2	2.5	37.5	46.0	58.1	42.3	23.0	54.5	47.3	16.9	12.1
87.5°	0.0	0.0	0.0	1.2	1.2	6.0	7.3	9.7	7.3	6.0	4.8
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: P969730
 CATALOG NUMBER: NAV-SB6A-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2	4732.2
2.5°	4656.0	4484.1	4316.9	4180.1	4100.2	3964.5	3874.9	3860.5	3822.8	3855.5
5°	4566.4	4258.8	3947.6	3669.1	3440.2	3144.8	2924.3	2831.2	2750.0	2777.9
7.5°	4523.9	4038.4	3554.1	3078.2	2588.9	2116.7	1765.6	1619.0	1507.6	1523.4
10°	4467.1	3809.5	3050.3	2323.8	1668.6	1202.4	960.2	870.6	821.0	822.3
12.5°	4423.5	3535.8	2465.4	1575.4	1016.0	767.7	692.7	670.9	656.3	657.5
15°	4401.7	3213.8	1887.8	1049.9	726.5	650.3	632.1	622.4	612.7	611.5
17.5°	4365.4	2855.3	1381.7	766.5	635.7	609.1	593.4	582.4	570.3	568.0
20°	4310.8	2448.5	1009.9	647.8	595.7	575.2	553.4	538.8	524.3	521.9
22.5°	4210.4	2018.6	776.2	599.4	566.7	543.7	517.1	500.1	485.5	483.2
25°	4023.8	1615.4	653.8	569.2	541.3	513.4	484.4	461.4	448.0	445.6
27.5°	3787.8	1269.1	593.4	541.3	508.6	483.2	450.5	428.7	416.6	414.1
30°	3509.2	977.2	558.2	509.8	469.9	448.0	419.0	400.8	393.5	393.5
32.5°	3209.0	781.0	543.7	478.3	435.9	411.7	388.7	381.4	379.0	377.8
35°	2926.8	678.1	536.5	452.8	405.7	382.6	373.0	374.1	379.0	379.0
37.5°	2676.2	645.4	532.8	434.7	379.0	358.4	364.5	375.4	370.5	370.5
40°	2449.6	649.0	530.3	421.4	357.2	345.1	357.2	348.7	336.6	335.4
42.5°	2276.5	679.4	525.5	410.5	343.9	335.4	330.6	317.2	316.0	318.5
45°	2150.6	705.9	524.3	405.7	329.3	313.6	307.6	294.3	318.5	324.5
47.5°	2001.6	705.9	524.3	388.7	305.1	299.1	289.5	274.9	299.1	305.1
50°	1809.1	661.1	503.8	369.3	285.8	282.2	265.2	247.0	242.2	245.8
52.5°	1565.7	580.0	451.7	342.7	266.4	259.1	238.5	225.2	221.6	221.6
55°	1288.4	485.5	381.4	303.9	245.8	232.5	217.9	211.9	208.3	205.8
57.5°	1047.4	398.4	306.4	270.0	226.4	209.5	204.7	197.4	191.4	187.7
60°	859.8	313.6	253.1	239.7	207.0	191.4	190.1	180.4	164.7	162.3
62.5°	663.6	230.1	213.1	208.3	187.7	174.4	172.0	152.6	128.3	123.5
65°	468.6	179.2	172.0	182.9	167.1	155.0	148.9	119.9	94.4	90.8
67.5°	329.3	150.2	135.6	159.8	145.3	129.6	126.0	101.7	78.7	76.3
70°	234.9	122.3	111.4	136.8	116.2	113.9	106.6	84.8	64.2	61.8
72.5°	165.8	93.3	86.0	118.7	79.9	98.1	87.2	65.4	48.5	46.0
75°	122.3	66.6	60.6	69.0	58.1	73.9	61.8	43.6	30.2	29.1
77.5°	89.6	42.3	36.3	33.9	33.9	46.0	33.9	18.1	13.3	12.1
80°	62.9	19.4	16.9	14.6	13.3	10.9	4.8	2.5	1.2	1.2
82.5°	37.5	8.5	8.5	6.0	3.6	0.0	0.0	0.0	0.0	0.0
85°	8.5	3.6	3.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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)