

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: P961825

Luminaire Tested: **NAV-SB2B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961825
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-SB2B-722-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA 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: 8130.3 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

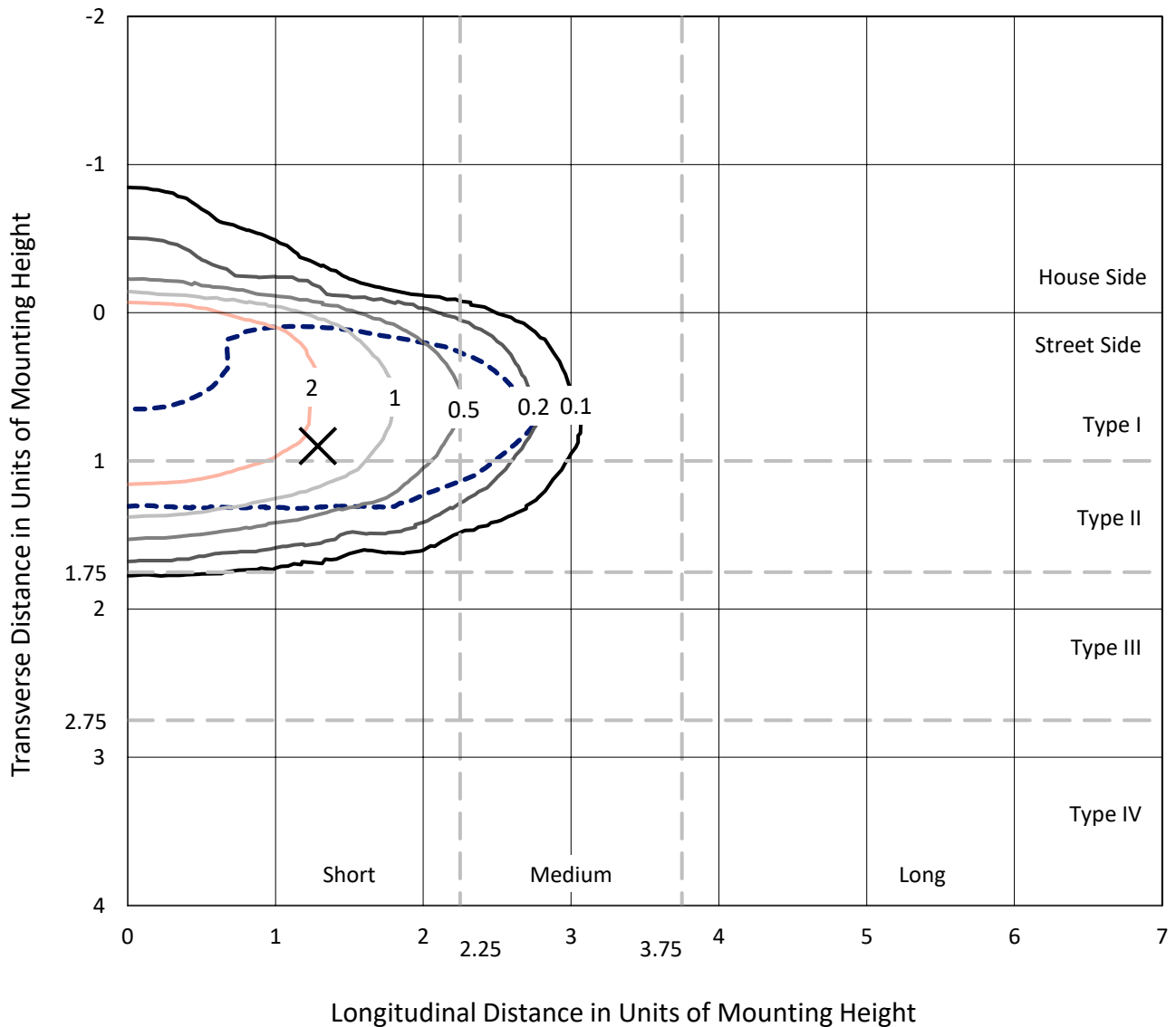
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

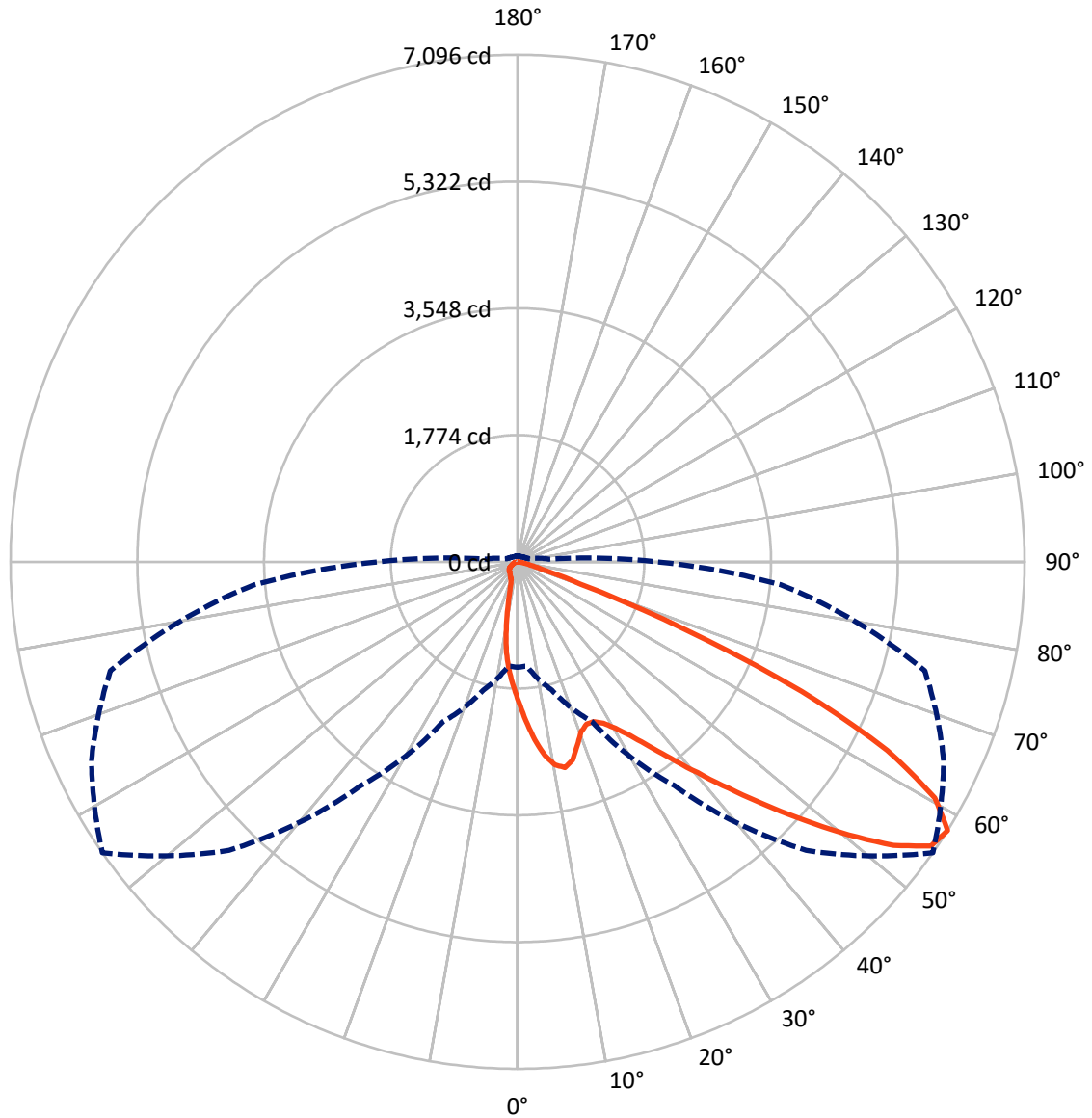
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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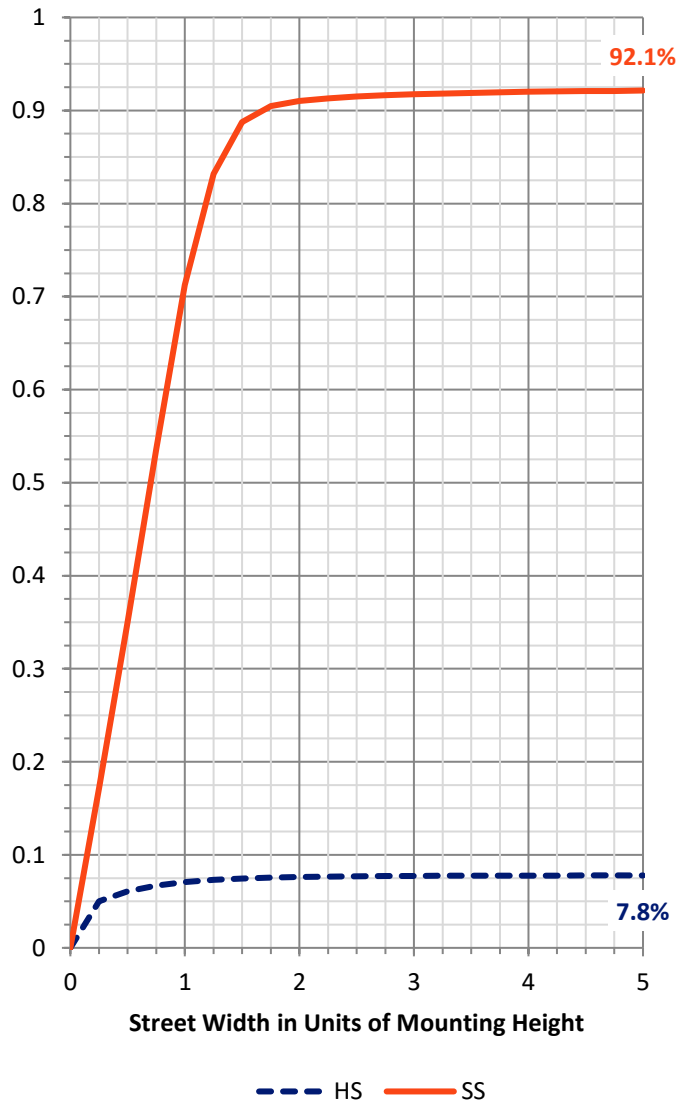
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	634.9	0.0	634.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7495.4	0.0	7495.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	8130.3	0.0	8130.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	2.2
10°-20°	440.3	5.4
20°-30°	704.5	8.7
30°-40°	1192.4	14.7
40°-50°	1957.7	24.1
50°-60°	2151.7	26.5
60°-70°	1234.2	15.2
70°-80°	252.2	3.1
80°-90°	14.9	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°	8130.3	100.0
0°-180°	8130.3	100.0

Coefficient of Utilization



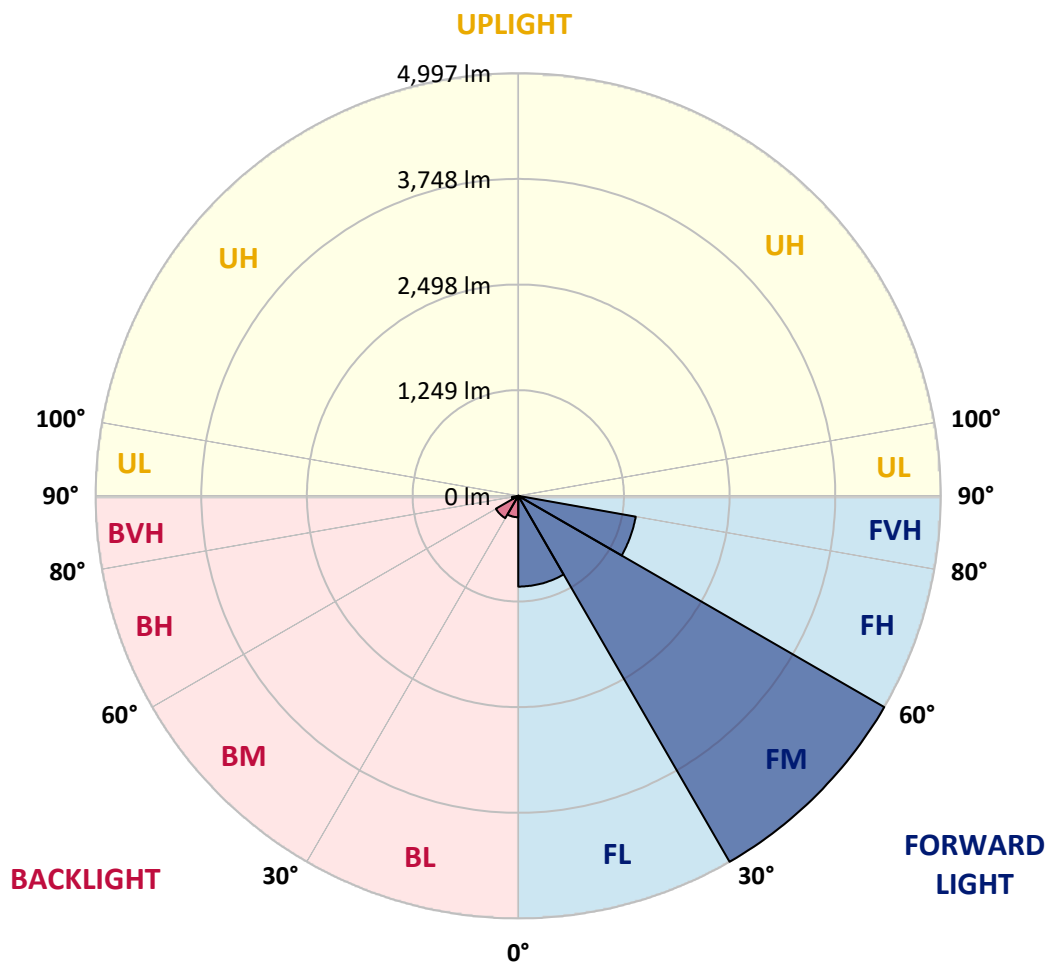
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.7	13.2			
FM (30°-60°)	4996.9	61.5			
FH (60°-80°)	1410.9	17.4			G1/1800
FVH (80°-90°)	13.9	0.2			G1/100
BL (0°-30°)	253.5	3.1	B1/500		
BM (30°-60°)	304.9	3.8	B1/1000		
BH (60°-80°)	75.5	0.9	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2
2.5°	2431.0	2400.3	2395.8	2389.9	2331.7	2288.1	2224.9	2155.7	2078.0	1998.9	1963.7
5°	2808.5	2784.4	2779.9	2751.8	2685.6	2611.4	2499.2	2357.3	2212.4	2041.9	1968.7
7.5°	2881.7	2877.2	2897.7	2896.6	2887.6	2829.0	2734.3	2565.3	2347.8	2095.1	1981.7
10°	2555.3	2566.8	2628.0	2681.6	2826.5	2910.7	2890.2	2750.8	2487.1	2155.7	1996.3
12.5°	2258.0	2244.4	2288.1	2348.7	2517.2	2767.8	2954.9	2905.7	2646.5	2224.5	2017.8
15°	2071.5	2066.0	2090.6	2118.7	2247.0	2499.7	2879.6	3031.5	2799.9	2305.6	2050.4
17.5°	2011.9	2007.4	2014.8	2021.9	2105.0	2300.6	2700.7	3108.7	2946.9	2398.4	2086.5
20°	2060.5	2054.4	2053.5	2048.0	2082.5	2215.8	2538.7	3114.3	3078.7	2482.5	2117.6
22.5°	2202.3	2195.3	2170.7	2148.7	2151.7	2227.4	2466.6	3059.1	3177.9	2561.3	2137.1
25°	2459.5	2448.0	2396.9	2322.6	2275.5	2307.6	2477.5	2986.4	3272.7	2623.0	2127.7
27.5°	2781.3	2766.4	2700.7	2590.4	2482.5	2443.5	2557.3	2936.3	3351.4	2670.1	2107.1
30°	3096.7	3077.2	3012.5	2926.8	2769.3	2646.0	2701.2	2958.4	3445.1	2719.2	2080.0
32.5°	3437.1	3418.6	3332.9	3226.6	3096.2	2930.3	2898.2	3066.2	3559.9	2787.9	2061.0
35°	3867.7	3838.7	3716.9	3572.0	3433.6	3265.6	3164.9	3252.1	3712.9	2892.7	2071.5
37.5°	4358.1	4318.9	4187.6	3987.6	3807.2	3619.1	3489.7	3507.9	3936.9	3033.1	2104.1
40°	4820.3	4784.7	4663.3	4474.8	4248.3	4020.2	3882.3	3842.2	4246.3	3204.0	2161.2
42.5°	5097.5	5065.4	5014.3	4934.6	4743.6	4511.0	4337.0	4250.3	4612.3	3408.5	2230.9
45°	5113.1	5085.0	5153.7	5246.5	5208.8	5054.0	4841.9	4682.9	4979.8	3600.5	2303.1
47.5°	4864.4	4845.4	5054.0	5377.8	5539.2	5604.4	5408.8	5079.5	5283.1	3738.4	2332.7
50°	4186.6	4179.6	4608.7	5203.3	5665.1	6086.7	6006.9	5448.5	5518.2	3809.6	2304.6
52.5°	3630.1	3604.6	3854.7	4644.8	5482.0	6340.3	6591.5	5810.4	5682.6	3823.1	2238.9
55°	2753.4	2730.7	3044.6	3710.4	4892.0	6250.1	7019.1	6183.9	5800.4	3788.6	2121.1
57.5°	1476.9	1462.9	1859.5	2469.5	3824.2	5708.6	7096.4	6579.0	5899.7	3696.8	1956.2
60°	575.0	572.6	720.9	1198.2	2324.2	4644.4	6706.8	6816.1	5961.8	3584.0	1818.4
62.5°	347.9	355.5	379.6	537.9	1026.7	2885.2	5808.9	6546.4	6003.4	3480.7	1704.6
65°	287.7	288.2	291.3	369.5	491.8	1207.2	4373.1	5659.0	5900.6	3296.7	1543.1
67.5°	246.6	251.1	262.7	293.3	347.0	529.4	2517.7	4383.6	5275.5	2868.7	1291.4
70°	194.5	200.5	215.0	241.2	267.7	331.4	930.5	2916.7	4030.2	2162.2	976.6
72.5°	163.9	163.4	171.0	196.0	212.6	233.1	357.9	1634.4	2342.2	1032.3	483.3
75°	126.8	131.8	141.3	163.9	173.9	168.9	194.0	597.1	839.3	312.8	164.4
77.5°	99.2	103.3	111.8	133.9	143.9	119.8	111.8	213.6	269.7	112.3	74.2
80°	44.6	48.2	76.2	98.8	117.4	82.7	60.7	109.3	119.8	51.1	37.6
82.5°	8.0	13.5	44.6	52.2	60.2	53.6	31.6	56.7	58.6	20.6	13.0
85°	0.5	1.0	15.6	19.1	24.1	17.5	9.5	22.5	19.6	7.0	5.0
87.5°	0.0	0.0	0.0	0.5	0.5	2.5	3.0	4.0	3.0	2.5	2.0
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°	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2
2.5°	1927.6	1856.5	1787.3	1730.6	1697.5	1641.3	1604.2	1598.3	1582.7	1596.2
5°	1890.5	1763.2	1634.4	1519.0	1424.2	1302.0	1210.7	1172.1	1138.6	1150.0
7.5°	1873.0	1672.0	1471.4	1274.4	1071.8	876.4	730.9	670.2	624.1	630.7
10°	1849.4	1577.2	1262.9	962.1	690.8	497.8	397.6	360.5	339.9	340.4
12.5°	1831.4	1463.9	1020.7	652.2	420.7	317.9	286.8	277.8	271.7	272.2
15°	1822.3	1330.6	781.6	434.7	300.8	269.2	261.7	257.7	253.7	253.2
17.5°	1807.3	1182.1	572.1	317.3	263.2	252.2	245.7	241.2	236.2	235.1
20°	1784.7	1013.7	418.1	268.2	246.6	238.1	229.1	223.1	217.1	216.1
22.5°	1743.1	835.7	321.3	248.2	234.6	225.1	214.0	207.0	201.0	200.1
25°	1665.9	668.8	270.7	235.6	224.1	212.6	200.5	191.0	185.5	184.5
27.5°	1568.1	525.4	245.7	224.1	210.5	200.1	186.4	177.4	172.5	171.5
30°	1452.8	404.6	231.1	211.0	194.5	185.5	173.4	165.9	163.0	163.0
32.5°	1328.5	323.4	225.1	198.0	180.5	170.5	160.9	158.0	156.9	156.4
35°	1211.8	280.7	222.1	187.5	167.9	158.5	154.4	154.9	156.9	156.9
37.5°	1107.9	267.2	220.6	180.0	156.9	148.4	150.9	155.4	153.4	153.4
40°	1014.2	268.8	219.6	174.5	147.9	142.9	147.9	144.4	139.4	138.9
42.5°	942.5	281.3	217.6	169.9	142.4	138.9	136.8	131.3	130.9	131.8
45°	890.3	292.2	217.1	167.9	136.3	129.9	127.3	121.9	131.8	134.4
47.5°	828.7	292.2	217.1	160.9	126.4	123.8	119.8	113.8	123.8	126.4
50°	749.0	273.8	208.6	152.9	118.3	116.8	109.8	102.3	100.2	101.8
52.5°	648.2	240.2	187.0	141.9	110.3	107.3	98.8	93.3	91.7	91.7
55°	533.4	201.0	158.0	125.9	101.8	96.2	90.2	87.7	86.2	85.2
57.5°	433.7	164.9	126.8	111.8	93.8	86.7	84.8	81.7	79.2	77.7
60°	356.0	129.9	104.8	99.2	85.7	79.2	78.7	74.7	68.2	67.1
62.5°	274.7	95.2	88.3	86.2	77.7	72.2	71.2	63.1	53.1	51.1
65°	194.0	74.2	71.2	75.7	69.2	64.2	61.7	49.6	39.2	37.6
67.5°	136.3	62.1	56.2	66.2	60.2	53.6	52.2	42.1	32.6	31.6
70°	97.3	50.6	46.1	56.7	48.2	47.2	44.1	35.1	26.5	25.5
72.5°	68.7	38.6	35.6	49.1	33.1	40.6	36.1	27.1	20.1	19.1
75°	50.6	27.6	25.1	28.6	24.1	30.5	25.5	18.0	12.5	12.0
77.5°	37.1	17.5	15.1	14.0	14.0	19.1	14.0	7.5	5.5	5.0
80°	26.0	8.0	7.0	6.0	5.5	4.5	2.0	1.0	0.5	0.5
82.5°	15.6	3.5	3.5	2.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	3.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	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)