

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: P963948

Luminaire Tested: **NAV-SB3B-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12112.4 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

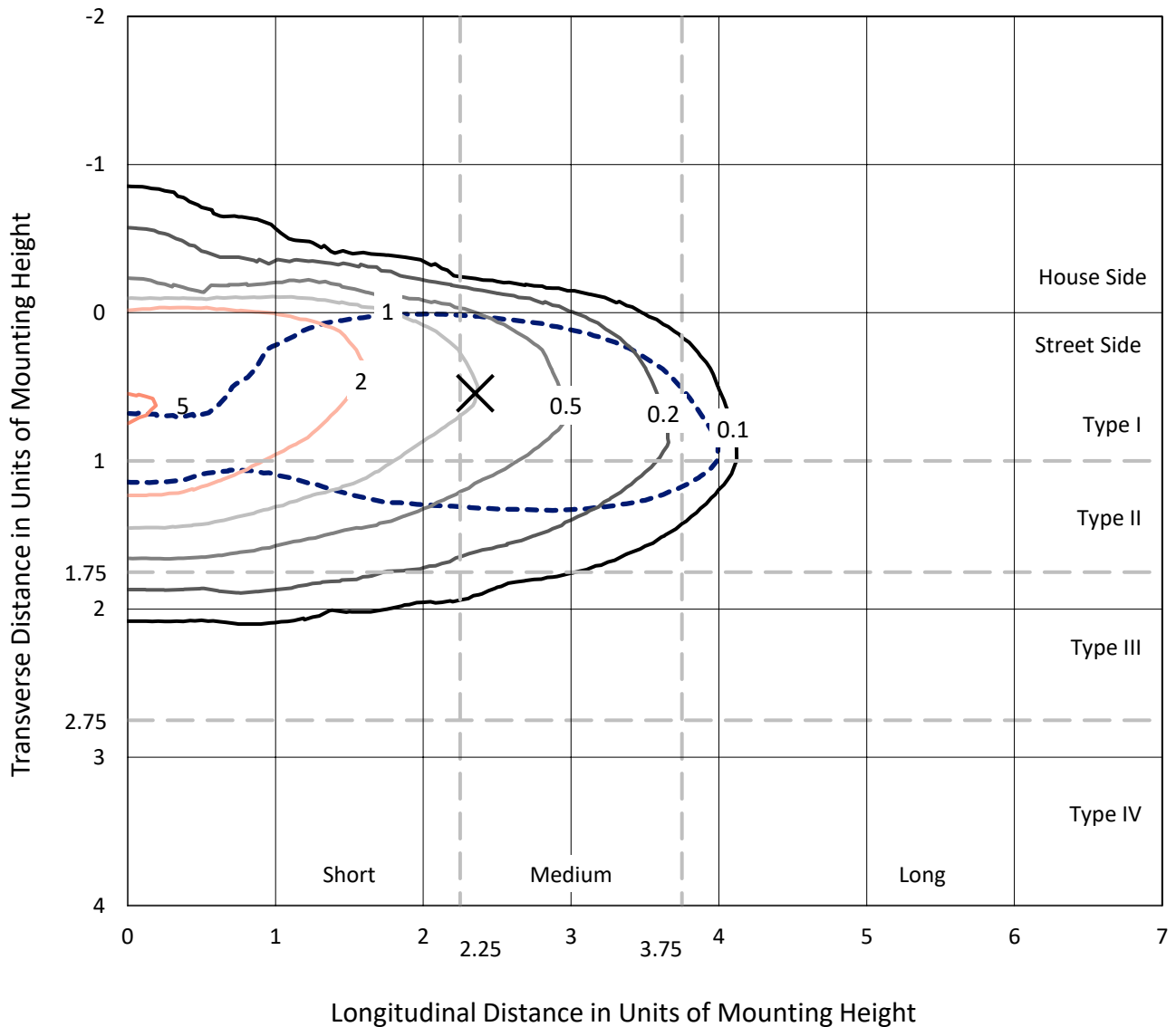
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

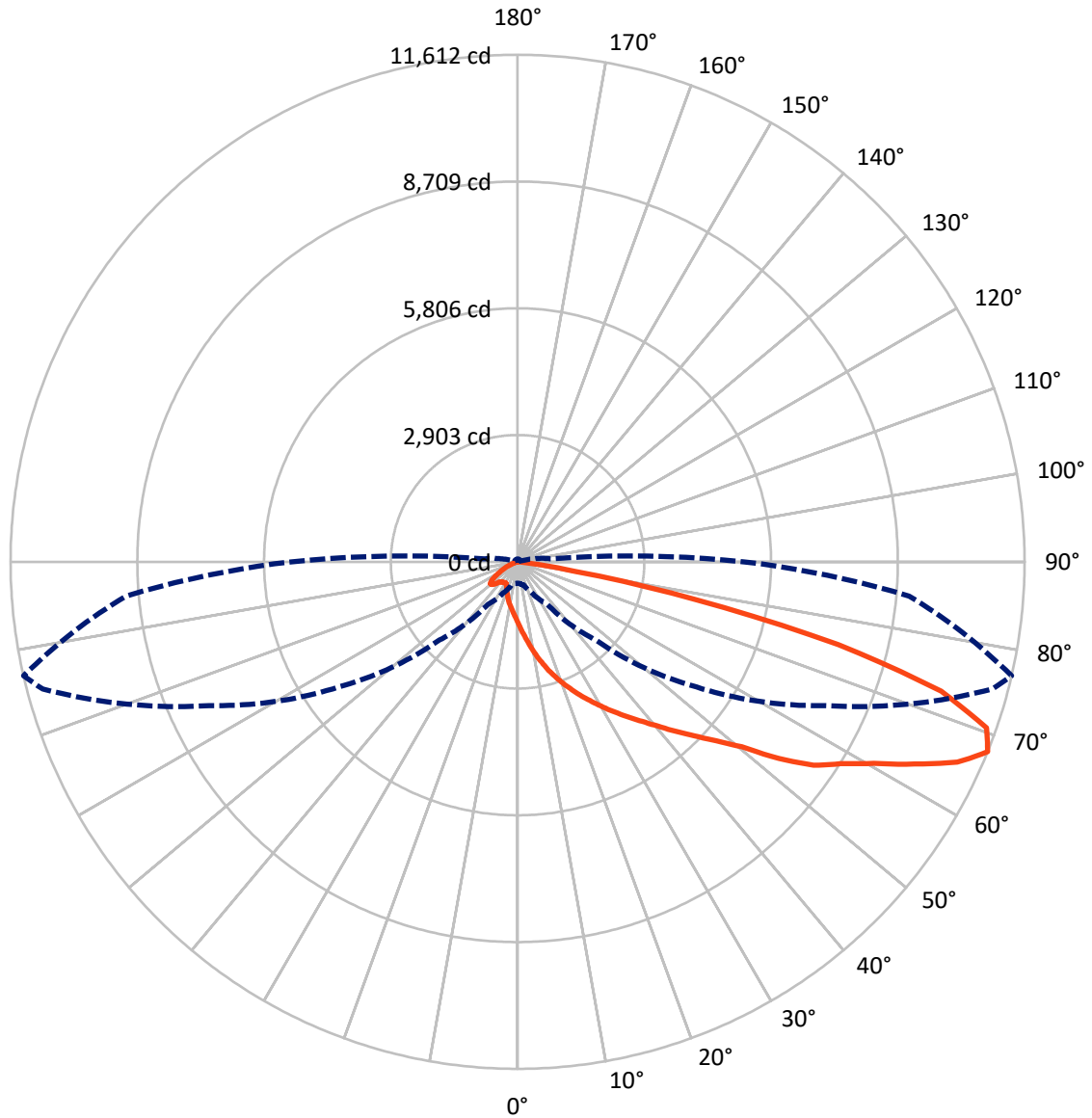
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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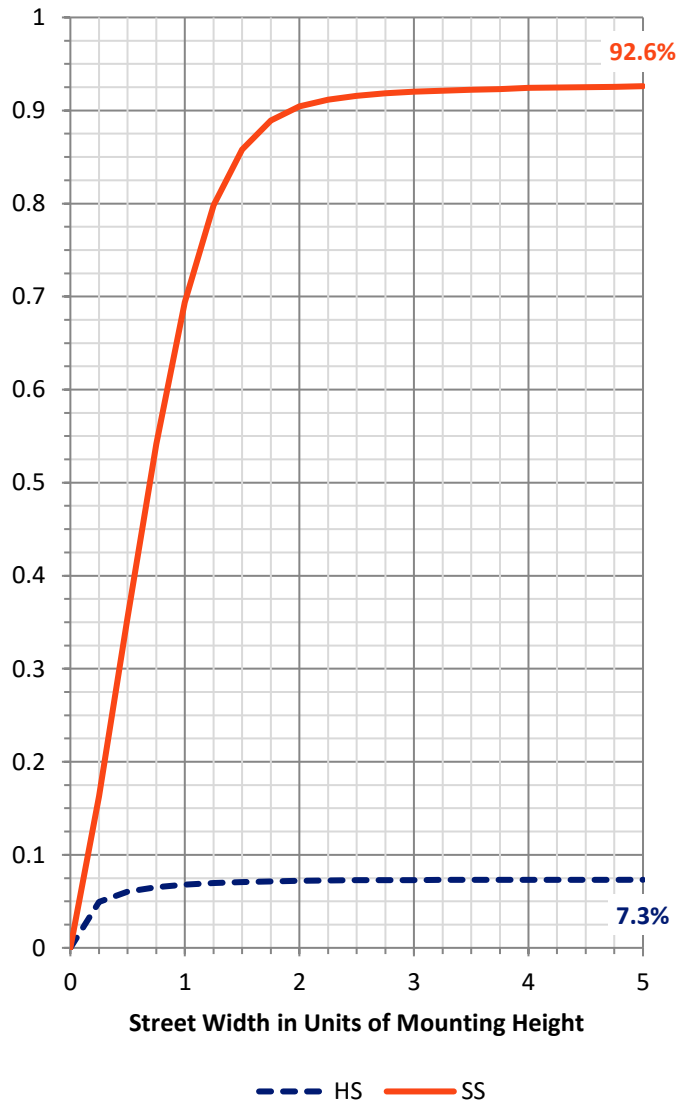
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	891.1	0.0	891.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11221.3	0.0	11221.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	12112.4	0.0	12112.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.2
10°-20°	499.2	4.1
20°-30°	963.4	8.0
30°-40°	1672.5	13.8
40°-50°	2428.3	20.0
50°-60°	2788.6	23.0
60°-70°	2421.1	20.0
70°-80°	1140.4	9.4
80°-90°	56.4	0.5
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°	12112.4	100.0
0°-180°	12112.4	100.0

Coefficient of Utilization

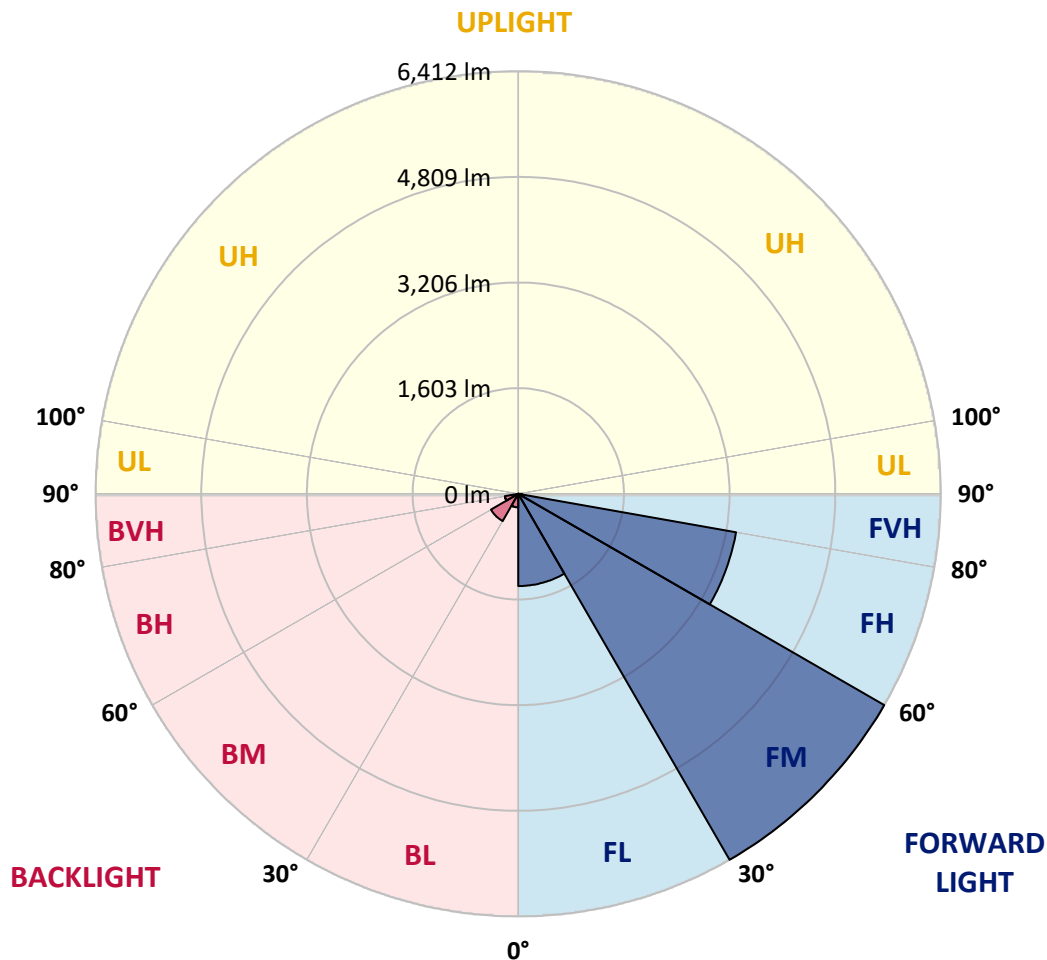


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.9	11.5			
FM (30°-60°)	6412.0	52.9			
FH (60°-80°)	3355.1	27.7			G2/5000
FVH (80°-90°)	55.4	0.5			G1/100
BL (0°-30°)	206.3	1.7	B1/500		
BM (30°-60°)	477.5	3.9	B1/1000		
BH (60°-80°)	206.3	1.7	B1/500		G1/500
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-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8
2.5°	1933.8	1945.9	1928.5	1895.4	1845.8	1813.4	1734.5	1660.0	1577.3	1550.9	1468.2
5°	2357.2	2367.8	2348.2	2312.1	2245.9	2182.7	2078.9	1923.2	1761.6	1709.6	1562.9
7.5°	2670.8	2676.9	2669.4	2636.3	2573.1	2501.6	2385.8	2201.5	1961.6	1904.4	1679.6
10°	2896.5	2916.1	2913.9	2901.1	2858.9	2801.0	2677.6	2467.8	2185.7	2112.0	1811.2
12.5°	3046.2	3068.0	3080.8	3109.3	3107.1	3070.3	2961.9	2740.0	2409.2	2322.6	1959.4
15°	3089.9	3113.1	3162.0	3228.2	3286.9	3305.7	3229.8	3007.0	2655.1	2544.6	2111.3
17.5°	3065.1	3101.1	3159.8	3264.3	3393.0	3477.9	3469.6	3265.0	2878.5	2752.1	2260.2
20°	3119.9	3154.5	3200.4	3288.4	3438.1	3592.2	3653.9	3511.8	3100.3	2968.0	2416.6
22.5°	3423.8	3417.8	3422.3	3436.5	3526.1	3678.7	3805.8	3735.9	3320.0	3184.6	2582.1
25°	3905.1	3878.1	3832.2	3754.7	3732.1	3805.8	3938.3	3934.5	3551.6	3406.5	2751.4
27.5°	4457.2	4452.7	4345.2	4158.6	4053.4	4024.8	4087.9	4127.8	3781.0	3626.1	2921.4
30°	4986.0	4998.0	4852.9	4645.3	4452.0	4339.8	4282.8	4311.4	4014.2	3863.0	3096.6
32.5°	5446.3	5459.0	5301.1	5058.2	4819.0	4683.6	4563.3	4492.6	4268.4	4103.7	3289.1
35°	5835.2	5847.9	5666.7	5398.2	5143.2	5020.6	4884.4	4691.1	4524.1	4370.7	3503.6
37.5°	6182.7	6178.9	5936.0	5665.2	5414.8	5317.7	5246.3	4935.6	4787.5	4639.3	3741.1
40°	6388.0	6403.8	6196.2	5897.6	5654.6	5584.0	5579.5	5238.7	5091.3	4947.7	4001.4
42.5°	6448.2	6476.1	6325.6	6080.4	5860.0	5783.3	5901.3	5566.7	5444.8	5304.9	4295.6
45°	6339.8	6366.9	6298.5	6128.5	5999.9	5950.2	6178.2	5906.7	5822.4	5684.0	4627.3
47.5°	6023.9	6057.9	6074.4	6038.3	6036.7	6087.2	6426.3	6264.7	6270.6	6129.3	5011.5
50°	5412.5	5469.6	5621.6	5749.4	5947.3	6195.4	6667.8	6652.8	6776.1	6654.3	5512.4
52.5°	4300.8	4382.0	4905.5	5255.3	5699.8	6175.1	6933.3	7275.6	7662.9	7484.7	6218.8
55°	3456.1	3456.1	3881.9	4536.2	5216.9	6041.2	7049.1	7680.2	8266.8	8224.7	6715.9
57.5°	2817.5	2851.4	3123.0	3701.3	4518.2	5722.4	7120.6	7934.4	8753.5	8722.6	7201.9
60°	1739.0	1811.9	2324.9	2895.7	3723.1	5154.5	7075.5	8191.7	9343.9	9368.8	7787.0
62.5°	979.3	1006.3	1235.0	2083.4	2895.0	4391.0	6730.3	8335.3	10099.1	10204.4	8390.2
65°	676.2	689.7	777.8	1296.7	2006.7	3496.0	6055.6	8245.8	10855.8	11068.7	8901.7
67.5°	491.2	497.9	552.8	792.0	1190.6	2534.7	4998.0	7794.5	11256.7	11612.4	8999.5
70°	377.6	382.1	422.0	520.5	703.3	1564.5	3629.8	6897.2	10966.4	11391.3	8498.6
72.5°	306.9	311.4	342.2	385.1	466.4	925.2	2200.1	5601.2	9684.7	10143.5	7235.0
75°	258.7	264.8	292.5	320.4	365.5	594.2	1032.0	3900.6	7283.0	7583.9	5031.1
77.5°	143.7	132.3	237.7	265.5	308.4	376.1	482.9	2295.6	4078.9	4162.4	2232.3
80°	89.5	92.6	188.8	213.6	236.9	189.5	221.1	883.8	1414.1	1343.4	432.4
82.5°	5.2	12.0	145.1	154.2	162.5	81.3	83.5	300.1	340.7	312.9	76.7
85°	0.0	0.0	66.2	53.4	56.4	23.3	24.1	69.9	45.9	49.6	15.1
87.5°	0.0	0.0	0.0	1.5	0.0	2.3	4.5	6.0	2.3	3.0	5.2
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°	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8	1396.8
2.5°	1415.5	1362.9	1256.1	1151.6	1066.5	987.6	931.1	877.7	850.6	849.2	847.7
5°	1458.4	1347.9	1134.3	945.5	793.6	671.7	592.7	536.3	507.7	497.9	496.4
7.5°	1518.6	1352.4	1027.5	765.0	585.9	481.3	436.2	418.2	412.2	405.4	404.0
10°	1594.6	1362.9	931.9	616.0	461.9	409.2	391.1	383.6	379.0	374.5	373.1
12.5°	1679.6	1372.7	837.1	511.5	406.2	379.0	366.3	357.3	351.3	345.9	344.5
15°	1762.3	1378.7	738.6	438.5	377.6	355.8	342.2	332.4	324.2	318.2	317.4
17.5°	1844.3	1386.9	646.1	394.8	354.2	332.4	318.9	306.9	300.1	293.4	292.5
20°	1935.3	1385.5	558.8	364.1	331.0	309.1	294.9	283.5	276.8	269.3	268.5
22.5°	2019.6	1377.9	482.2	337.7	306.9	285.8	270.0	258.7	251.9	246.0	245.2
25°	2116.5	1372.0	418.2	313.6	284.3	263.2	246.0	235.4	227.9	222.6	221.9
27.5°	2209.8	1362.9	371.6	291.8	262.5	242.2	225.6	213.6	206.8	203.1	203.1
30°	2301.5	1360.7	354.2	270.8	242.9	222.6	206.1	194.9	189.5	188.1	187.3
32.5°	2412.1	1366.6	361.8	263.2	224.9	204.6	188.8	180.5	175.3	175.3	175.3
35°	2530.2	1365.2	373.1	270.0	212.9	186.5	174.5	169.2	164.0	164.0	164.0
37.5°	2678.4	1367.5	382.1	281.3	208.4	171.5	164.7	158.0	155.0	155.0	155.0
40°	2899.5	1441.9	377.6	291.1	206.8	160.9	147.4	145.1	142.9	142.9	142.9
42.5°	3170.3	1603.6	383.6	291.8	206.1	153.4	135.4	139.9	134.7	133.9	133.1
45°	3466.7	1780.3	422.0	276.0	205.3	149.6	129.4	134.7	126.4	126.4	126.4
47.5°	3760.7	1955.6	461.0	253.5	203.1	148.9	124.1	121.1	118.8	119.6	119.6
50°	4166.1	2098.5	476.1	222.6	197.8	147.4	114.3	115.1	113.6	115.1	115.1
52.5°	4607.7	2128.6	458.1	188.1	182.8	142.9	107.5	110.6	109.8	111.3	111.3
55°	4883.0	2096.2	378.3	156.4	159.5	124.8	100.8	106.8	106.8	106.8	106.8
57.5°	5167.2	1958.6	268.5	127.1	132.3	102.3	94.8	103.0	102.3	101.6	101.6
60°	5371.8	1735.9	176.7	104.6	105.3	84.3	88.0	97.1	96.2	92.6	92.6
62.5°	5524.5	1490.0	113.6	88.8	80.5	76.0	80.5	88.0	85.0	76.7	75.2
65°	5507.2	1149.3	87.2	76.0	66.2	66.2	69.9	76.7	67.6	54.1	52.7
67.5°	5186.1	777.8	72.2	64.0	55.7	54.9	57.9	64.0	57.9	45.9	44.4
70°	4612.2	508.5	57.9	49.6	44.4	40.6	46.6	54.9	48.9	36.9	35.4
72.5°	3743.4	309.9	43.7	36.1	32.4	26.3	36.9	45.1	39.2	27.1	25.5
75°	2421.9	158.0	30.1	23.3	17.3	15.8	27.1	33.8	27.1	16.5	14.2
77.5°	926.6	66.2	16.5	10.6	9.0	7.5	15.1	20.3	11.3	3.8	3.0
80°	178.2	27.9	8.3	5.2	4.5	3.0	2.3	1.5	0.0	0.0	0.0
82.5°	30.9	9.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.0	0.0	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	0.0

(END OF REPORT)