

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: P963980

Luminaire Tested: **NAV-SB3B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-727-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16361 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

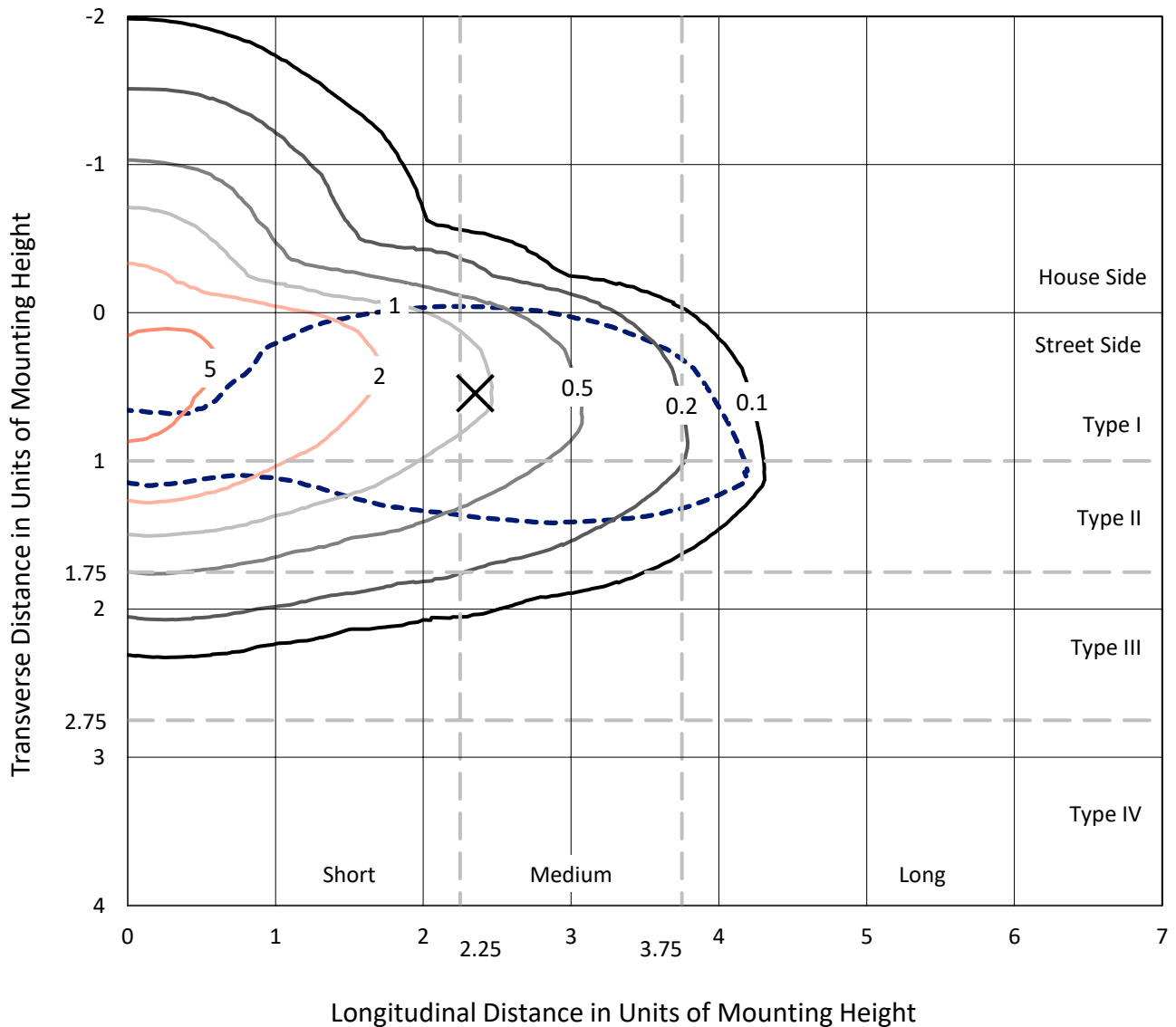
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

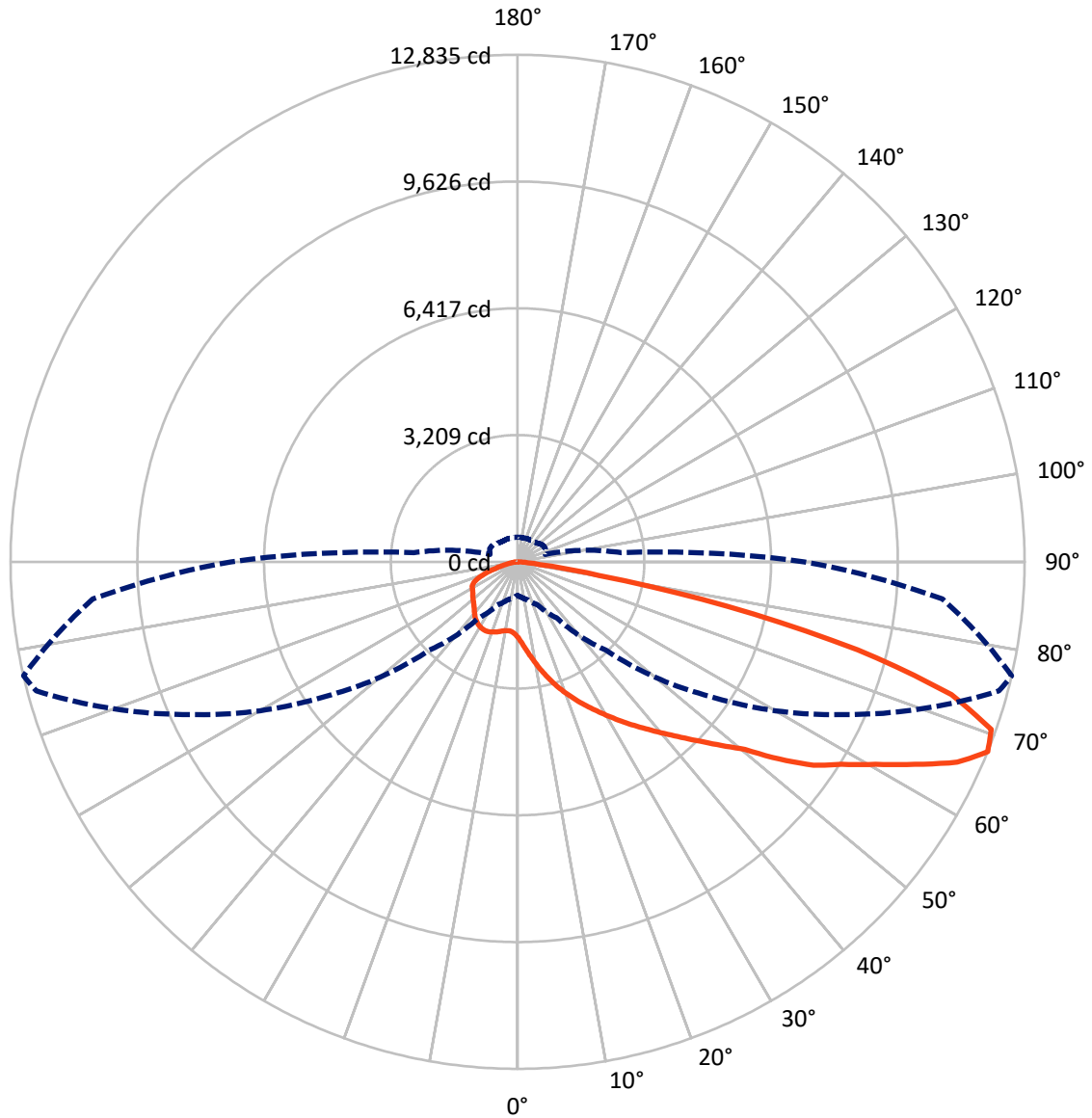
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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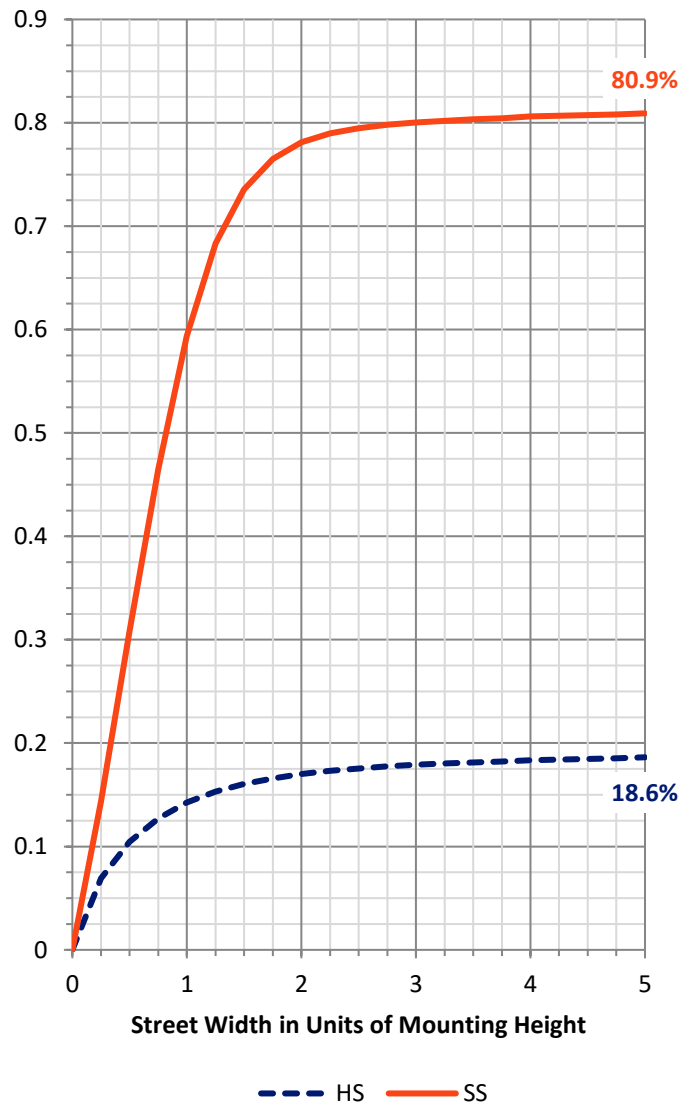
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3094.9	0.0	3094.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13266.2	0.0	13266.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	16361.0	0.0	16361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	1.3
10°-20°	739.2	4.5
20°-30°	1395.7	8.5
30°-40°	2248.5	13.7
40°-50°	3075.5	18.8
50°-60°	3469.2	21.2
60°-70°	3238.1	19.8
70°-80°	1775.0	10.8
80°-90°	214.1	1.3
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°	16361.0	100.0
0°-180°	16361.0	100.0

Coefficient of Utilization

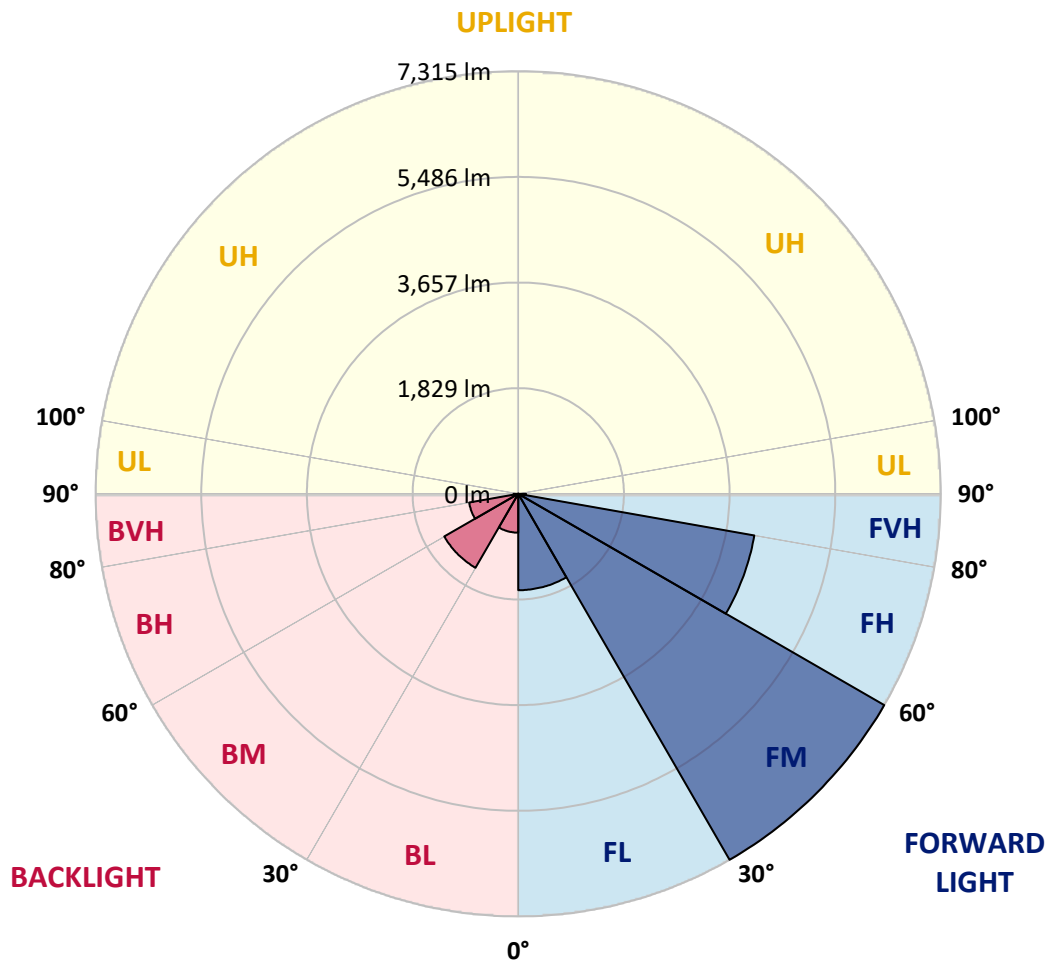


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.8	10.2			
FM (30°-60°)	7314.8	44.7			
FH (60°-80°)	4149.6	25.4			G2/5000
FVH (80°-90°)	133.9	0.8			G2/225
BL (0°-30°)	672.9	4.1	B2/1000		
BM (30°-60°)	1478.3	9.0	B2/2500		
BH (60°-80°)	863.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	80.2	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6
2.5°	2403.6	2420.4	2399.3	2399.3	2328.4	2291.3	2220.4	2166.2	2069.2	2052.3	1988.1
5°	2841.1	2862.2	2832.6	2820.0	2736.3	2659.5	2540.4	2423.0	2249.9	2232.1	2081.0
7.5°	3179.8	3206.7	3180.6	3167.0	3092.7	3006.6	2867.2	2703.4	2459.3	2424.7	2206.0
10°	3455.9	3460.1	3451.7	3456.7	3398.5	3327.6	3184.8	2993.9	2689.1	2641.7	2357.1
12.5°	3612.1	3631.6	3648.5	3678.8	3668.7	3624.8	3496.5	3268.4	2932.3	2871.4	2521.8
15°	3685.6	3719.4	3757.4	3827.5	3884.0	3895.1	3797.1	3563.1	3179.8	3106.3	2688.2
17.5°	3711.8	3743.9	3803.9	3905.1	4026.8	4108.7	4064.8	3849.5	3424.6	3340.2	2863.0
20°	3844.4	3853.7	3890.0	3986.2	4118.0	4254.0	4287.0	4124.8	3667.0	3571.6	3043.7
22.5°	4128.2	4109.5	4119.7	4163.7	4258.3	4390.0	4465.1	4368.0	3916.2	3806.3	3226.2
25°	4596.9	4542.8	4488.8	4438.1	4486.2	4560.5	4645.8	4611.3	4177.2	4037.8	3410.3
27.5°	5188.9	5123.1	5003.9	4837.6	4779.3	4805.5	4843.5	4836.8	4418.7	4277.6	3600.3
30°	5771.7	5694.8	5552.9	5312.2	5158.5	5089.2	5060.5	5041.2	4681.4	4531.0	3792.0
32.5°	6237.0	6176.1	6036.8	5767.5	5544.4	5426.2	5330.8	5261.5	4955.8	4805.5	3994.7
35°	6644.0	6587.5	6427.9	6133.9	5891.6	5765.7	5640.8	5493.0	5241.2	5089.2	4212.6
37.5°	7015.7	6959.0	6740.3	6434.6	6190.6	6103.6	5992.0	5741.2	5527.6	5384.0	4443.2
40°	7250.4	7237.8	7033.4	6687.1	6433.8	6390.7	6353.6	6029.3	5845.2	5711.7	4696.5
42.5°	7310.4	7338.3	7176.1	6891.5	6650.0	6615.4	6702.4	6355.2	6201.6	6073.9	4983.7
45°	7166.0	7246.2	7139.8	6946.4	6803.6	6785.1	7011.4	6711.6	6596.0	6479.3	5329.9
47.5°	6800.3	6936.3	6892.4	6865.3	6845.1	6925.3	7283.3	7090.0	7042.7	6941.3	5725.2
50°	6062.2	6319.7	6396.6	6567.2	6763.2	7034.3	7530.9	7503.0	7564.6	7462.4	6206.6
52.5°	4786.0	5140.8	5586.7	6014.0	6511.5	6998.0	7802.8	8095.9	8356.0	8300.2	6971.7
55°	3950.8	4110.5	4453.3	5237.0	6023.3	6845.1	7925.2	8574.7	9141.4	9091.5	7552.0
57.5°	3308.9	3451.7	3662.8	4317.3	5285.2	6498.0	8001.3	8867.0	9679.4	9674.3	8124.6
60°	2620.6	2771.8	2988.0	3451.7	4422.9	5898.4	7984.3	9199.7	10366.0	10408.3	8823.0
62.5°	1843.7	2010.0	2249.9	2682.3	3542.0	5121.3	7639.8	9440.4	11174.2	11289.0	9663.3
65°	1212.0	1321.7	1502.4	1875.7	2639.2	4122.2	6981.9	9471.6	12039.0	12233.3	10452.1
67.5°	849.6	891.9	998.2	1201.0	1739.7	3161.1	5933.8	9148.1	12615.9	12834.6	10794.2
70°	663.0	684.1	738.1	819.2	1092.9	2125.7	4547.0	8307.0	12492.6	12720.6	10437.0
72.5°	572.6	592.9	613.2	623.3	733.1	1312.4	3080.0	6945.6	11331.3	11485.8	9074.6
75°	519.4	524.5	541.4	538.0	559.1	851.3	1777.8	5060.5	8940.4	8887.2	6699.0
77.5°	436.6	443.4	471.3	467.0	496.6	581.9	923.1	3265.9	5796.2	5434.7	3728.6
80°	369.9	373.3	403.6	398.6	431.5	421.5	471.3	1664.6	2458.5	2082.7	1075.1
82.5°	128.3	158.8	308.2	317.5	329.3	255.0	271.9	679.1	750.8	575.1	225.5
85°	62.5	66.7	157.1	222.9	222.1	128.3	132.6	242.4	236.5	185.8	75.1
87.5°	10.1	12.7	18.6	87.0	69.3	33.8	45.6	47.3	49.0	42.2	16.9
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°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6
2.5°	1940.7	1898.5	1809.8	1727.9	1663.8	1602.1	1567.5	1537.9	1521.0	1517.6	1517.6
5°	1993.1	1906.2	1744.9	1608.8	1520.2	1454.3	1419.7	1397.7	1386.7	1380.0	1379.1
7.5°	2068.3	1940.7	1711.0	1556.5	1463.6	1416.3	1398.6	1395.2	1394.3	1395.2	1397.7
10°	2172.2	1997.3	1707.6	1543.9	1466.2	1439.9	1439.1	1439.9	1443.3	1444.2	1445.0
12.5°	2284.5	2055.6	1721.2	1554.8	1498.2	1483.9	1481.3	1480.5	1483.1	1484.7	1485.5
15°	2407.0	2132.5	1744.0	1578.5	1533.7	1518.5	1516.0	1510.8	1510.0	1509.2	1508.4
17.5°	2532.8	2208.5	1769.4	1603.8	1556.5	1535.3	1526.1	1514.2	1505.0	1502.4	1505.0
20°	2660.3	2283.7	1787.1	1616.4	1558.2	1528.6	1510.0	1489.7	1473.7	1464.4	1467.8
22.5°	2796.3	2362.2	1798.1	1613.0	1543.0	1502.4	1468.6	1445.0	1420.5	1404.5	1405.4
25°	2928.9	2430.6	1797.2	1595.3	1513.4	1462.0	1418.8	1388.5	1354.6	1337.7	1337.7
27.5°	3056.4	2492.3	1776.1	1564.1	1471.2	1413.8	1362.2	1325.9	1293.0	1276.9	1276.1
30°	3188.2	2543.7	1743.1	1518.5	1421.4	1358.0	1301.4	1270.2	1240.7	1225.5	1224.6
32.5°	3319.1	2591.1	1696.7	1462.0	1364.0	1303.2	1247.4	1218.7	1201.0	1201.0	1201.8
35°	3457.6	2624.0	1635.1	1396.0	1303.2	1244.9	1201.0	1184.1	1182.3	1172.2	1169.7
37.5°	3603.7	2645.1	1559.8	1328.5	1243.2	1188.3	1174.8	1154.5	1137.6	1115.6	1112.2
40°	3757.4	2666.2	1469.5	1258.4	1179.9	1149.4	1143.5	1116.5	1068.4	1014.3	1006.7
42.5°	3944.0	2680.6	1375.8	1188.3	1113.1	1103.0	1111.4	1065.0	988.1	947.6	948.4
45°	4160.3	2704.3	1289.7	1119.0	1044.7	1044.7	1080.1	1019.4	956.0	930.7	934.9
47.5°	4440.6	2759.1	1209.4	1043.0	981.3	998.2	1011.0	964.5	929.0	897.8	896.9
50°	4846.0	2890.9	1126.6	966.2	933.3	967.0	949.3	922.3	880.9	855.6	853.0
52.5°	5349.4	2968.6	1053.2	896.9	891.9	925.6	900.3	874.9	843.7	810.0	803.2
55°	5692.2	2983.0	991.5	846.2	864.0	860.6	851.3	828.5	811.6	766.8	767.7
57.5°	6075.7	3011.7	940.8	815.8	846.2	809.0	805.6	786.3	764.3	733.9	723.8
60°	6534.3	3056.4	896.9	804.0	831.1	775.3	758.4	750.8	728.9	713.6	717.9
62.5°	7034.3	3096.9	852.2	805.6	813.3	742.4	717.0	714.5	701.0	695.9	695.9
65°	7375.5	2986.3	796.4	804.0	785.5	708.6	676.5	675.7	664.6	663.0	662.2
67.5°	7256.4	2635.8	721.3	780.3	756.8	674.8	639.3	635.9	621.6	622.5	622.5
70°	6660.1	2135.9	617.4	722.1	721.3	644.4	600.4	589.5	570.1	573.5	576.9
72.5°	5542.0	1582.7	478.1	624.9	664.6	616.5	555.8	538.0	513.5	516.9	516.0
75°	4002.3	1075.9	348.0	475.5	578.5	583.5	511.8	481.4	451.8	456.9	458.6
77.5°	2048.1	609.8	255.9	327.7	454.4	530.3	472.1	431.5	424.8	472.1	465.4
80°	668.0	305.8	177.3	229.7	298.2	434.1	413.8	367.4	365.7	376.7	323.5
82.5°	199.4	129.3	114.0	151.2	164.7	332.7	357.2	277.9	239.0	251.6	260.1
85°	68.4	62.5	65.0	75.1	78.5	195.1	250.0	184.1	173.9	191.7	189.2
87.5°	16.1	21.9	18.6	16.9	16.9	47.3	97.2	76.9	106.4	70.9	68.4
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)