

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: P964511

Luminaire Tested: **NAV-SB3C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-727-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16754.7 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

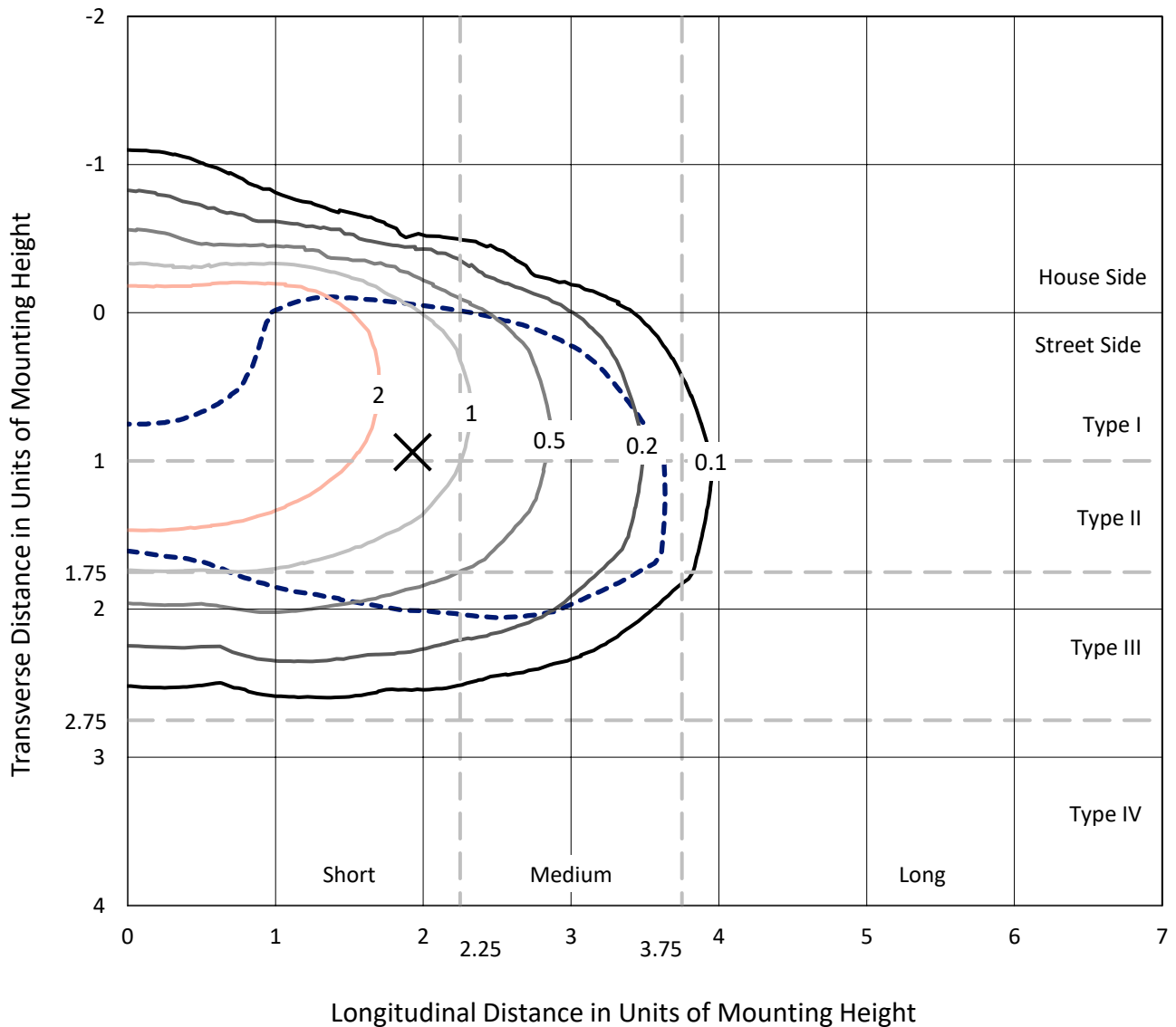
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

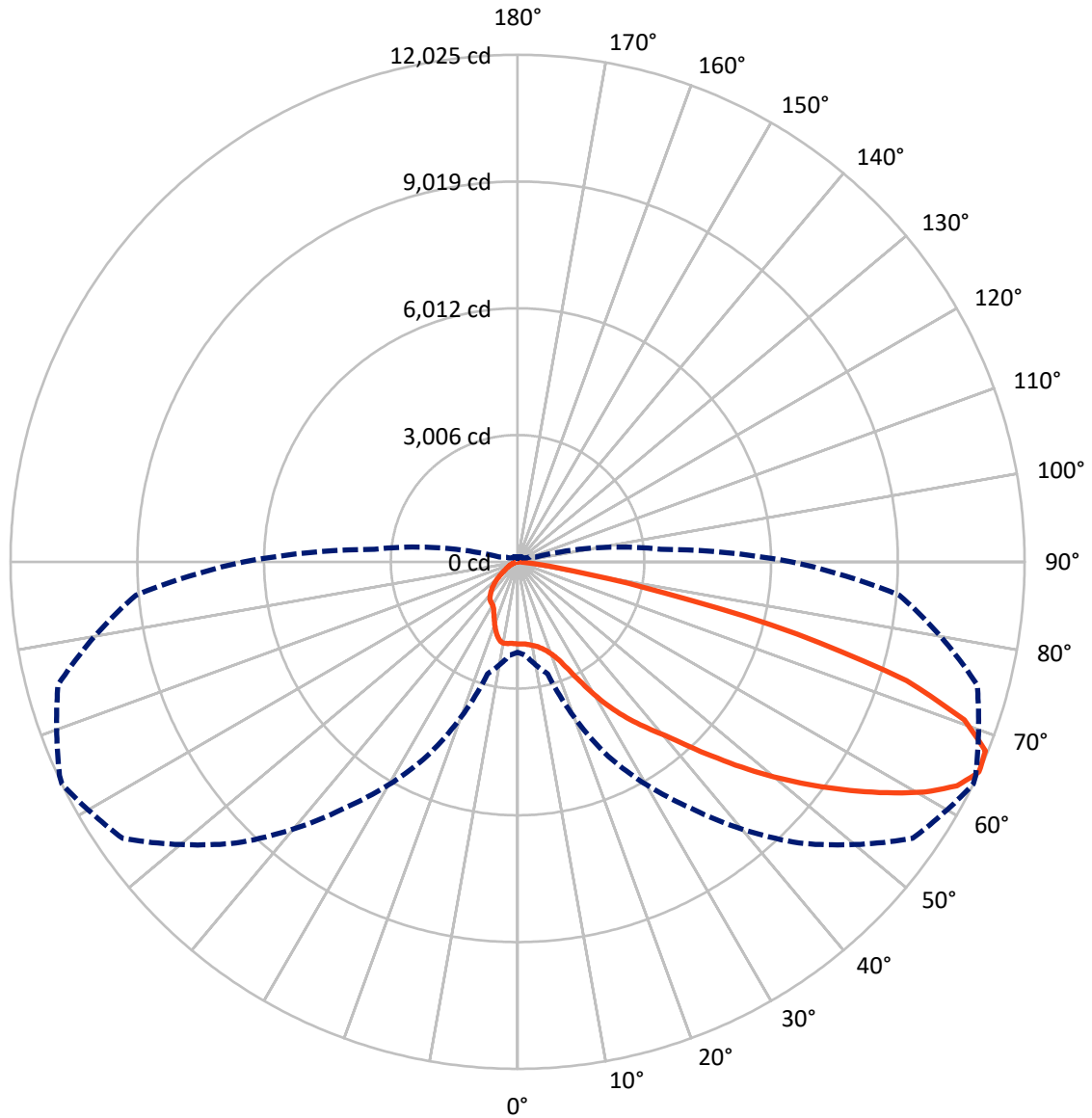
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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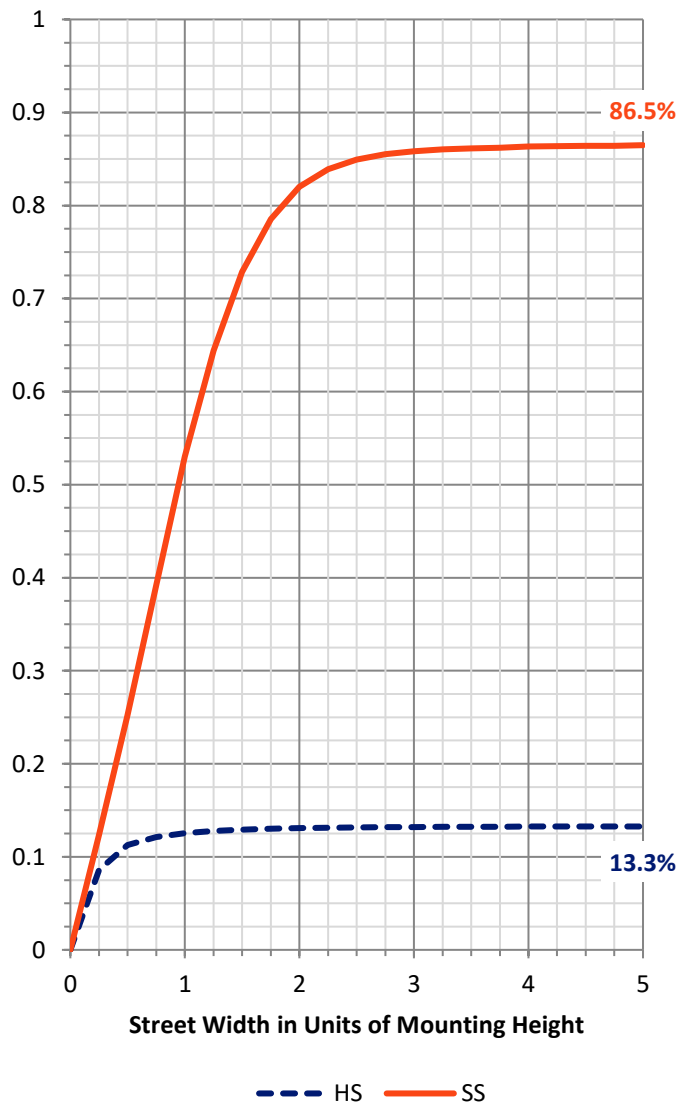
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2240.6	0.0	2240.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14514.1	0.0	14514.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	16754.7	0.0	16754.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.1
10°-20°	487.6	2.9
20°-30°	924.0	5.5
30°-40°	1869.8	11.2
40°-50°	3185.3	19.0
50°-60°	4331.7	25.9
60°-70°	4067.7	24.3
70°-80°	1629.7	9.7
80°-90°	79.0	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°	16754.7	100.0
0°-180°	16754.7	100.0

Coefficient of Utilization



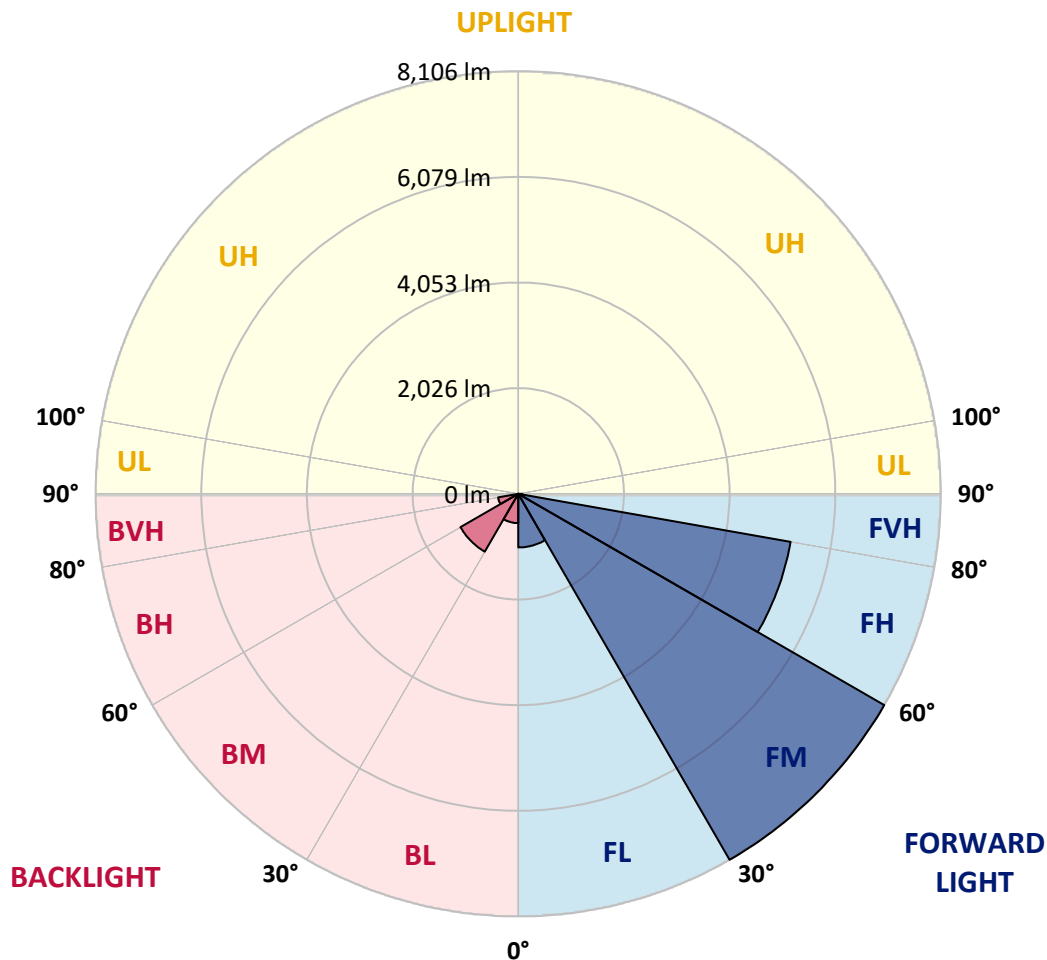
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.9	6.1			
FM (30°-60°)	8105.9	48.4			
FH (60°-80°)	5304.1	31.7			G3/7500
FVH (80°-90°)	75.1	0.4			G1/100
BL (0°-30°)	562.6	3.4	B2/1000		
BM (30°-60°)	1280.9	7.6	B2/2500		
BH (60°-80°)	393.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.9	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7
2.5°	1942.0	1955.5	1952.1	1948.7	1947.6	1949.9	1951.0	1949.9	1949.9	1949.9	1951.0
5°	1905.0	1916.1	1916.1	1924.0	1935.3	1948.7	1958.9	1961.1	1963.4	1966.7	1965.5
7.5°	1834.1	1843.2	1849.9	1875.7	1903.8	1939.7	1970.0	1985.8	1988.1	2000.4	2004.9
10°	1785.9	1797.1	1808.3	1835.3	1875.7	1929.7	1981.3	2019.5	2025.1	2054.3	2067.8
12.5°	1783.6	1794.9	1809.4	1838.6	1885.8	1943.1	2006.0	2061.1	2071.2	2113.9	2141.9
15°	1807.2	1820.7	1834.1	1870.1	1920.6	1990.3	2057.7	2126.2	2136.3	2197.0	2227.3
17.5°	1855.6	1873.5	1883.6	1919.5	1973.4	2050.9	2139.7	2218.3	2227.3	2298.0	2336.3
20°	1951.0	1972.3	1975.7	2004.9	2057.7	2140.8	2246.4	2344.1	2355.3	2436.2	2478.9
22.5°	2148.7	2178.9	2152.0	2166.6	2213.8	2296.9	2411.5	2535.0	2550.8	2642.9	2681.1
25°	2496.9	2539.5	2469.9	2445.2	2465.4	2551.9	2695.6	2851.8	2869.8	2943.9	2963.0
27.5°	3180.9	3125.8	3020.3	2916.9	2856.3	2905.7	3067.4	3260.6	3283.1	3354.9	3332.5
30°	3932.3	3884.0	3741.4	3512.3	3368.5	3360.6	3510.0	3725.7	3751.5	3820.0	3751.5
32.5°	4684.9	4638.7	4483.8	4201.9	3952.5	3829.0	3932.3	4171.5	4185.0	4228.8	4127.8
35°	5425.0	5377.9	5222.9	4934.1	4627.6	4346.7	4326.5	4596.1	4600.6	4646.6	4496.2
37.5°	6169.7	6130.4	5965.3	5682.2	5380.1	4992.6	4805.0	4998.2	5003.8	5048.7	4892.6
40°	6700.9	6717.8	6604.4	6385.3	6125.9	5702.5	5341.9	5426.1	5392.4	5467.7	5374.5
42.5°	7157.0	7190.7	7091.9	6981.8	6831.2	6458.3	6006.8	5992.3	5938.3	5978.7	5882.2
45°	7551.2	7579.3	7490.6	7464.8	7461.4	7199.7	6733.5	6645.9	6570.7	6562.8	6447.1
47.5°	7696.1	7750.0	7788.3	7874.7	8043.2	7933.1	7485.0	7349.0	7264.8	7203.1	7019.9
50°	7751.2	7808.4	7938.7	8190.4	8589.1	8636.2	8233.0	8080.3	7977.0	7864.6	7595.0
52.5°	7677.0	7779.2	7954.4	8377.9	8956.3	9200.1	8950.7	8817.0	8699.2	8516.0	8116.2
55°	7240.1	7342.3	7700.6	8375.7	9139.4	9595.4	9629.2	9569.6	9437.1	9148.4	8537.4
57.5°	6319.1	6470.7	7038.0	8090.3	9136.0	9935.7	10294.1	10336.7	10188.5	9775.1	8868.7
60°	5043.1	5248.7	5940.6	7458.0	8854.2	10119.9	10877.0	11090.4	10933.2	10392.9	9137.2
62.5°	3518.9	3757.0	4411.9	6467.3	8209.4	9987.4	11302.7	11696.9	11577.9	10945.6	9240.5
65°	2146.5	2222.8	2750.7	5089.2	7113.2	9432.6	11434.1	12024.9	11985.6	11283.6	9087.8
67.5°	1429.9	1493.8	1645.4	3489.7	5521.6	8324.0	11119.6	11967.6	11978.9	11228.6	8528.4
70°	861.5	916.6	1015.4	2029.6	3578.5	6588.7	10145.8	11237.6	11302.7	10492.8	7468.2
72.5°	355.0	392.0	481.9	919.9	1853.3	4181.7	8079.2	9648.2	9799.8	8822.7	5731.7
75°	201.0	220.2	283.0	461.7	804.2	1948.7	4893.8	6849.3	7072.7	6081.0	3448.2
77.5°	133.7	142.7	183.1	298.8	452.6	664.9	2091.4	3568.4	3995.2	3321.3	1492.7
80°	89.9	97.7	125.8	200.0	294.3	285.3	666.0	1322.0	1626.4	1141.1	363.9
82.5°	60.7	61.8	89.9	131.4	186.4	138.2	196.6	411.1	516.7	330.3	138.2
85°	34.8	33.7	66.3	76.4	83.1	57.3	59.6	123.5	161.7	139.3	78.6
87.5°	4.5	6.8	25.8	20.2	11.3	12.4	12.4	21.3	31.5	33.7	16.8
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°	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7	1948.7
2.5°	1951.0	1949.9	1946.5	1943.1	1935.3	1930.8	1933.0	1930.8	1929.7	1930.8	1935.3
5°	1965.5	1962.3	1953.2	1942.0	1926.3	1907.2	1894.8	1876.9	1860.0	1849.9	1852.2
7.5°	2004.9	2001.5	1989.2	1957.7	1907.2	1827.5	1754.4	1690.4	1642.2	1614.1	1615.2
10°	2067.8	2062.2	2043.1	1973.4	1840.9	1666.9	1521.9	1401.8	1323.2	1286.1	1282.7
12.5°	2141.9	2135.2	2101.5	1958.9	1715.1	1443.3	1243.3	1109.7	1036.7	1004.1	1000.8
15°	2229.6	2220.6	2154.2	1889.2	1532.1	1196.2	1013.1	913.2	866.0	836.8	837.9
17.5°	2338.5	2322.8	2193.6	1784.7	1333.2	1007.5	871.6	796.3	754.8	726.7	724.5
20°	2480.0	2454.2	2225.1	1660.1	1150.2	888.5	776.1	713.2	681.7	657.0	652.6
22.5°	2677.7	2640.6	2263.2	1525.3	1021.0	806.5	705.4	659.3	633.4	605.4	601.0
25°	2922.6	2878.7	2310.5	1400.7	932.2	735.6	653.7	615.5	585.2	552.6	549.2
27.5°	3265.1	3186.5	2366.5	1298.4	855.9	675.1	606.5	563.9	529.0	502.0	496.4
30°	3647.1	3517.8	2416.0	1236.7	786.3	618.9	544.8	502.0	469.4	450.4	447.0
32.5°	4008.7	3833.5	2448.5	1209.7	723.3	554.8	477.3	431.3	406.6	401.0	404.4
35°	4350.1	4118.8	2445.2	1183.9	667.2	490.9	411.1	363.9	344.8	348.2	348.2
37.5°	4743.3	4423.2	2421.6	1143.4	621.2	432.4	353.8	312.2	295.4	296.5	301.0
40°	5200.3	4774.7	2407.0	1067.0	570.6	378.5	306.7	273.0	260.6	256.0	254.9
42.5°	5687.8	5115.1	2409.3	980.5	507.7	330.3	274.1	246.0	234.7	231.3	230.2
45°	6177.6	5439.6	2412.6	890.7	441.4	293.2	250.5	226.9	220.2	215.7	215.7
47.5°	6638.1	5715.9	2349.7	794.1	376.3	265.1	231.3	215.7	210.0	204.4	204.4
50°	7067.2	5900.1	2198.1	681.7	324.6	242.6	216.8	205.5	200.0	194.3	194.3
52.5°	7400.7	5929.3	1947.6	566.1	288.6	225.8	207.8	197.7	191.0	185.3	184.2
55°	7549.0	5746.3	1591.5	458.3	260.6	211.2	198.8	188.7	180.8	175.2	174.0
57.5°	7510.8	5361.0	1241.2	368.4	233.6	196.6	187.6	180.8	171.9	162.9	161.7
60°	7323.2	4845.5	935.6	306.7	208.9	180.8	175.2	169.6	157.2	143.8	141.6
62.5°	6998.6	4197.4	667.2	253.9	181.9	162.9	160.6	156.1	138.2	113.5	111.2
65°	6502.2	3410.0	449.3	211.2	156.1	142.7	143.8	135.9	112.3	84.3	82.0
67.5°	5776.6	2493.5	287.5	173.0	130.3	119.1	120.2	115.7	95.4	71.9	68.5
70°	4852.1	1651.1	187.6	131.4	104.4	92.1	98.8	99.9	80.9	58.4	56.2
72.5°	3557.2	975.0	131.4	97.7	76.4	64.1	80.9	83.1	65.2	43.8	41.5
75°	2027.3	462.8	98.8	70.7	47.2	44.9	62.9	62.9	44.9	29.2	27.0
77.5°	851.4	193.2	69.6	46.0	27.0	25.8	42.6	39.4	22.4	13.4	13.4
80°	246.0	86.5	37.1	22.4	11.3	10.1	16.8	12.4	5.6	2.3	2.3
82.5°	96.6	38.2	14.6	9.0	4.5	4.5	2.3	0.0	0.0	0.0	0.0
85°	57.3	15.7	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	3.4	2.3	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)