

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: P964515

Luminaire Tested: **NAV-SB3C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16174.5 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

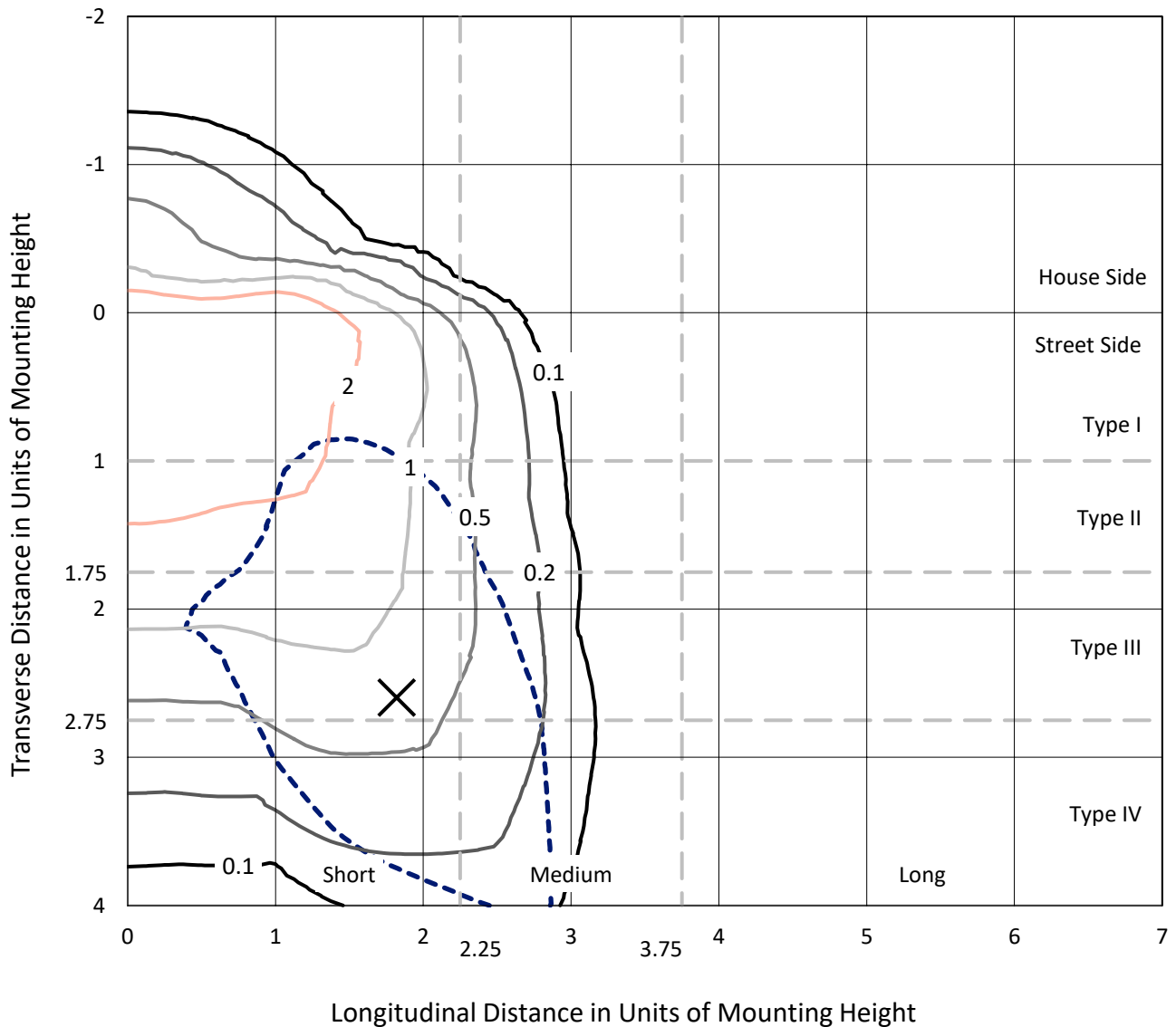
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

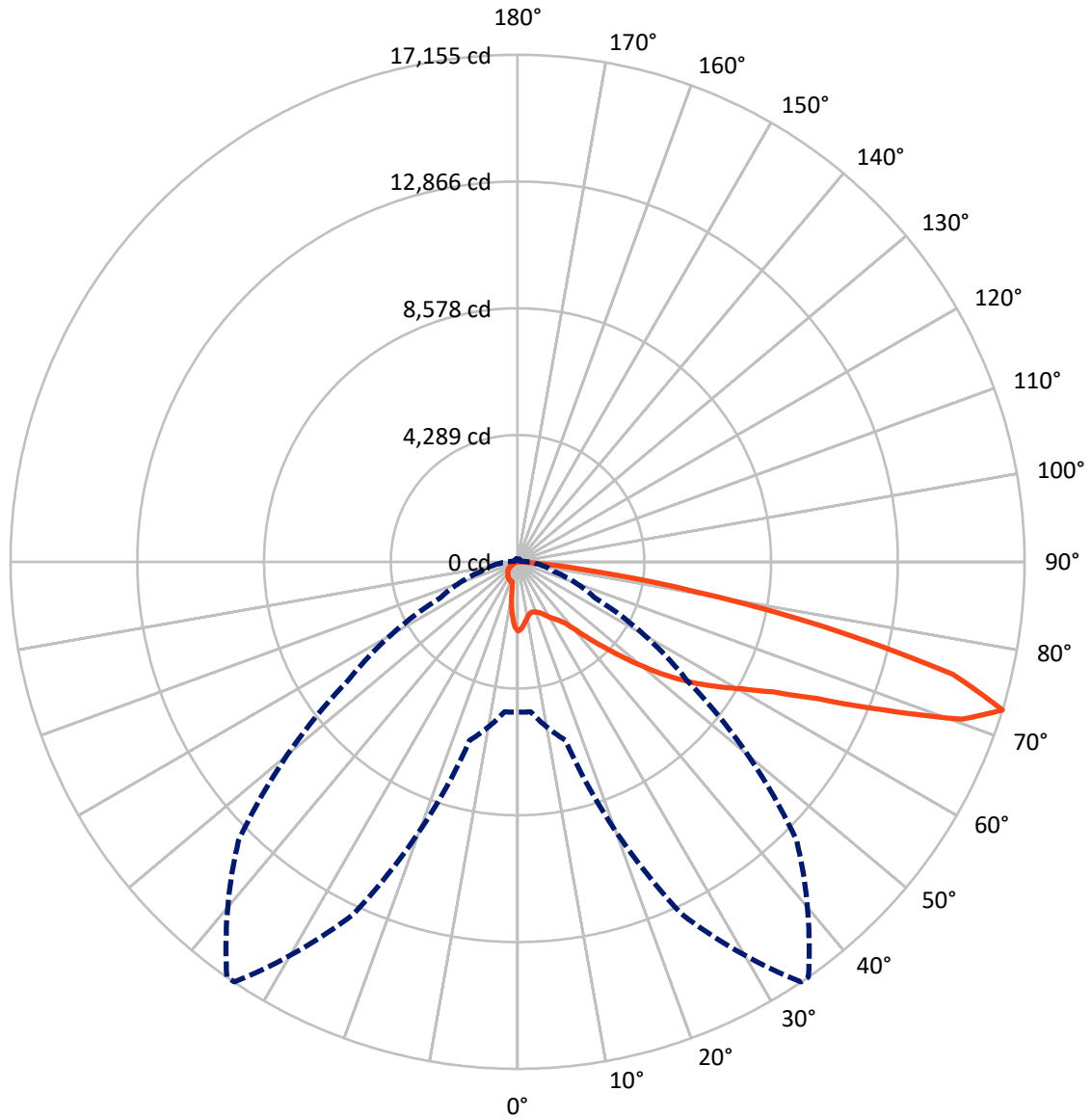
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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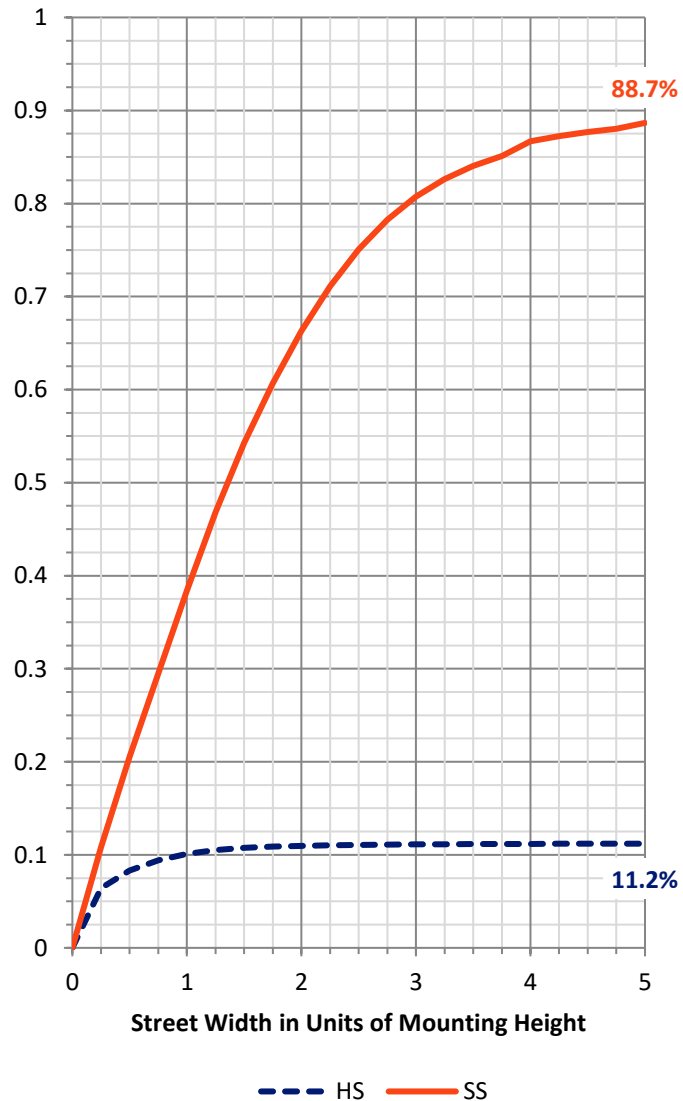
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1820.4	0.0	1820.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14354.1	0.0	14354.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	16174.5	0.0	16174.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	1.2
10°-20°	450.6	2.8
20°-30°	732.1	4.5
30°-40°	1221.4	7.6
40°-50°	2311.0	14.3
50°-60°	3672.1	22.7
60°-70°	4542.7	28.1
70°-80°	2823.8	17.5
80°-90°	228.2	1.4
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°	16174.5	100.0
0°-180°	16174.5	100.0

Coefficient of Utilization



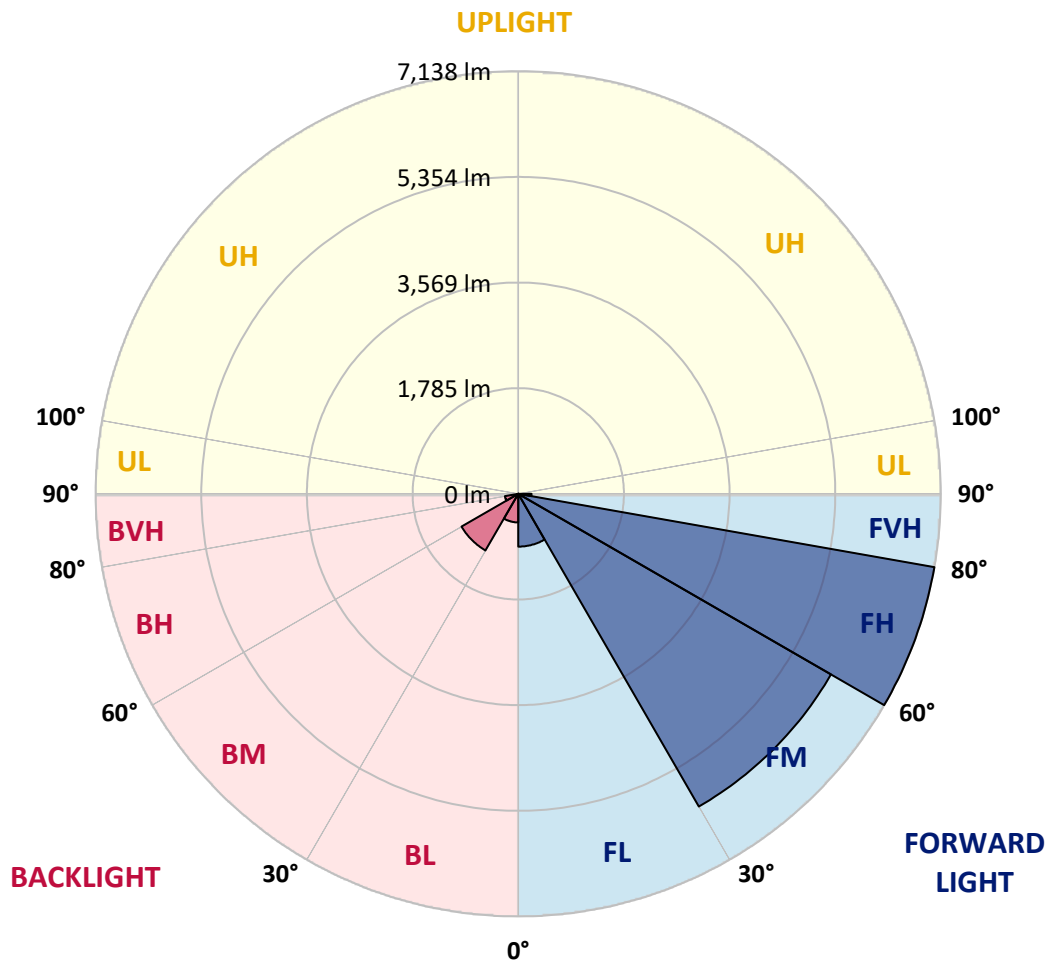
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.6	5.5			
FM (30°-60°)	6099.4	37.7			
FH (60°-80°)	7138.0	44.1			G3/7500
FVH (80°-90°)	225.1	1.4			G3/500
BL (0°-30°)	483.7	3.0	B1/500		
BM (30°-60°)	1105.1	6.8	B2/2500		
BH (60°-80°)	228.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3
2.5°	2239.9	2258.9	2262.5	2268.4	2268.4	2275.5	2287.4	2303.9	2331.2	2345.4	2354.9
5°	2064.6	2078.8	2096.5	2110.8	2138.0	2141.5	2187.8	2232.9	2295.6	2343.0	2376.3
7.5°	1887.9	1904.6	1928.2	1962.6	1998.1	2008.8	2078.8	2154.7	2254.2	2343.0	2398.7
10°	1763.5	1764.6	1786.1	1820.4	1877.3	1890.3	1975.7	2083.5	2208.0	2328.8	2420.1
12.5°	1693.6	1701.9	1711.3	1737.5	1791.9	1800.2	1891.5	2018.3	2161.7	2320.5	2444.9
15°	1693.6	1699.6	1705.4	1718.5	1762.3	1769.5	1850.0	1976.8	2138.0	2324.1	2485.2
17.5°	1711.3	1720.9	1716.1	1731.5	1777.8	1782.5	1853.6	1965.0	2136.8	2346.6	2546.9
20°	1754.0	1761.2	1751.6	1761.2	1807.4	1816.8	1890.3	1987.5	2157.0	2385.7	2623.9
22.5°	1821.5	1825.1	1802.6	1809.7	1857.1	1869.0	1954.3	2051.5	2205.6	2448.5	2727.0
25°	1906.9	1914.0	1879.6	1887.9	1932.9	1947.2	2045.6	2147.5	2282.6	2535.0	2858.6
27.5°	2005.3	2008.8	1979.2	1978.0	2036.1	2056.3	2155.8	2266.0	2385.7	2644.1	3024.5
30°	2117.9	2128.5	2100.1	2095.3	2168.8	2185.4	2283.8	2411.8	2537.4	2807.6	3260.3
32.5°	2206.7	2215.0	2198.4	2210.3	2284.9	2298.0	2439.1	2618.0	2775.6	3039.9	3581.6
35°	2334.7	2339.5	2301.5	2322.9	2408.2	2441.4	2651.2	2907.2	3075.5	3331.5	4001.1
37.5°	2798.1	2798.1	2636.9	2531.4	2613.2	2642.9	2941.5	3271.0	3445.2	3722.6	4529.7
40°	3439.3	3428.6	3192.8	2977.1	2966.5	3024.5	3355.1	3729.7	3922.9	4191.8	5124.6
42.5°	4123.2	4106.6	3785.3	3572.0	3536.5	3556.6	3832.8	4295.0	4491.8	4764.3	5764.6
45°	4730.0	4725.1	4431.3	4144.5	4080.4	4144.5	4428.9	4956.3	5097.3	5384.1	6403.4
47.5°	5238.4	5238.4	5023.8	4836.6	4803.5	4841.4	5236.0	5689.9	5676.9	6044.2	7025.6
50°	5823.8	5819.1	5615.3	5534.7	5569.0	5622.3	6165.2	6462.6	6276.6	6692.5	7581.4
52.5°	6233.8	6262.3	6192.4	6179.4	6354.8	6447.2	7108.6	7218.8	6813.4	7307.6	7997.4
55°	6558.7	6591.8	6672.4	6763.7	7101.4	7222.4	8022.3	7935.8	7262.6	7840.9	8236.8
57.5°	7018.5	6971.0	7095.5	7275.7	7822.0	7967.7	8907.6	8612.5	7624.1	8273.5	8262.8
60°	7576.7	7583.8	7605.1	7832.6	8541.4	8728.6	9779.8	9252.5	7856.3	8539.0	7973.7
62.5°	8247.5	8258.1	8302.0	8651.6	9507.3	9683.9	10709.0	9776.3	7963.0	8464.3	7227.1
65°	8201.2	8246.2	8735.8	9931.5	10975.7	11149.8	11793.4	10143.7	7801.9	7781.7	5884.3
67.5°	7471.2	7544.7	8363.6	11460.4	13189.5	13383.9	13104.2	10216.0	7106.1	6051.4	3838.7
70°	6513.6	6539.7	7524.5	12835.2	15753.0	15949.7	14277.5	9420.8	5392.4	3375.3	1719.6
72.5°	5086.7	5092.6	6248.1	13154.0	17144.4	17155.0	13356.7	6993.6	2900.0	1296.5	597.3
75°	3633.6	3598.2	4184.8	10667.6	15083.4	15204.3	10013.3	3280.5	1108.1	612.7	297.5
77.5°	1948.4	1987.5	2368.0	6326.3	10419.8	10626.1	5463.6	945.8	564.2	417.2	196.7
80°	602.1	635.2	970.7	2896.5	5902.1	6026.5	2025.4	420.8	393.5	297.5	129.1
82.5°	189.6	196.7	452.7	1217.2	2449.8	2506.6	586.6	238.2	269.1	196.7	75.8
85°	54.5	55.7	201.5	453.9	605.6	617.5	164.7	92.5	154.1	122.1	39.2
87.5°	5.9	19.0	75.8	75.8	53.3	52.2	17.7	20.2	43.9	15.4	7.1
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°	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3	2344.3
2.5°	2349.0	2350.1	2334.7	2308.7	2280.2	2256.5	2226.9	2203.2	2186.6	2181.8	2190.1
5°	2365.6	2357.3	2313.4	2234.0	2139.2	2057.4	1966.2	1893.9	1846.4	1826.3	1833.4
7.5°	2390.4	2366.7	2270.8	2114.3	1932.9	1771.8	1608.2	1481.4	1400.9	1360.6	1366.4
10°	2411.8	2364.4	2199.6	1941.2	1664.0	1419.8	1199.4	1046.5	961.1	920.9	922.1
12.5°	2431.9	2363.2	2107.2	1736.2	1360.6	1061.9	856.9	781.0	757.3	749.0	746.6
15°	2469.8	2366.7	1991.1	1501.6	1058.3	802.4	727.6	726.5	731.2	728.9	727.6
17.5°	2522.0	2370.3	1859.5	1252.8	816.6	707.6	704.0	714.6	721.8	718.2	717.0
20°	2589.6	2384.6	1719.6	1006.2	701.6	683.9	692.1	701.6	707.6	701.6	700.4
22.5°	2684.4	2409.4	1566.8	808.3	664.9	669.6	676.7	687.4	693.3	685.0	683.9
25°	2800.5	2448.5	1416.2	702.8	647.1	653.0	663.7	675.6	682.6	674.3	673.1
27.5°	2951.0	2511.4	1277.6	679.1	629.3	632.8	648.3	666.0	675.6	664.9	664.9
30°	3169.1	2614.5	1157.9	689.7	618.7	610.4	631.7	656.6	667.3	657.7	656.6
32.5°	3458.2	2760.2	1084.4	706.3	613.9	584.2	604.4	636.4	654.2	648.3	648.3
35°	3837.5	2981.8	1056.0	725.3	610.4	557.0	571.2	605.6	636.4	642.4	642.4
37.5°	4297.3	3289.9	1064.3	733.6	599.7	534.5	541.6	571.2	611.5	630.5	635.2
40°	4820.0	3649.1	1111.7	725.3	587.8	515.6	516.7	539.3	574.8	603.2	612.7
42.5°	5359.2	4068.6	1199.4	694.5	577.2	499.0	495.4	510.8	534.5	554.6	562.9
45°	5872.4	4500.1	1285.9	651.8	564.2	482.4	474.1	480.0	484.7	493.0	497.7
47.5°	6320.5	4803.5	1261.0	612.7	546.3	463.4	449.2	446.8	432.6	431.4	430.2
50°	6629.7	4869.8	1120.0	573.6	520.3	442.1	419.5	405.3	380.5	368.6	369.7
52.5°	6728.1	4607.9	914.9	534.5	477.6	413.6	381.6	359.1	328.3	317.6	316.4
55°	6597.7	4094.7	731.2	487.1	418.4	375.7	340.1	310.5	285.7	272.5	272.5
57.5°	6278.9	3441.6	578.3	431.4	355.6	333.0	297.5	267.8	246.5	233.5	231.1
60°	5750.4	2733.0	457.5	365.0	303.4	286.8	250.1	231.1	212.2	196.7	193.2
62.5°	4948.0	1950.8	359.1	289.2	253.6	234.6	213.3	199.1	176.6	155.3	151.7
65°	3861.2	1193.4	277.4	212.2	203.9	194.3	181.3	168.3	141.0	119.7	116.1
67.5°	2435.5	565.3	197.9	160.0	161.1	156.4	150.5	139.8	119.7	100.8	98.4
70°	1072.6	273.8	130.4	122.1	119.7	119.7	124.4	120.8	101.9	84.2	80.6
72.5°	365.0	147.0	97.2	92.5	86.5	85.3	104.2	100.8	81.8	65.2	61.6
75°	190.9	98.4	71.1	66.3	52.2	62.8	82.9	78.2	58.1	42.6	39.2
77.5°	124.4	69.9	48.6	42.6	29.6	41.5	61.6	54.5	34.3	21.3	19.0
80°	78.2	46.2	28.4	20.2	14.2	22.5	33.2	23.7	13.0	4.7	3.6
82.5°	41.5	23.7	10.7	7.1	5.9	7.1	8.3	5.9	2.4	0.0	0.0
85°	16.6	8.3	3.6	2.4	1.2	0.0	2.4	1.2	0.0	0.0	0.0
87.5°	5.9	1.2	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)