

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: P967643

Luminaire Tested: **NAV-SB5A-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15973.6 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

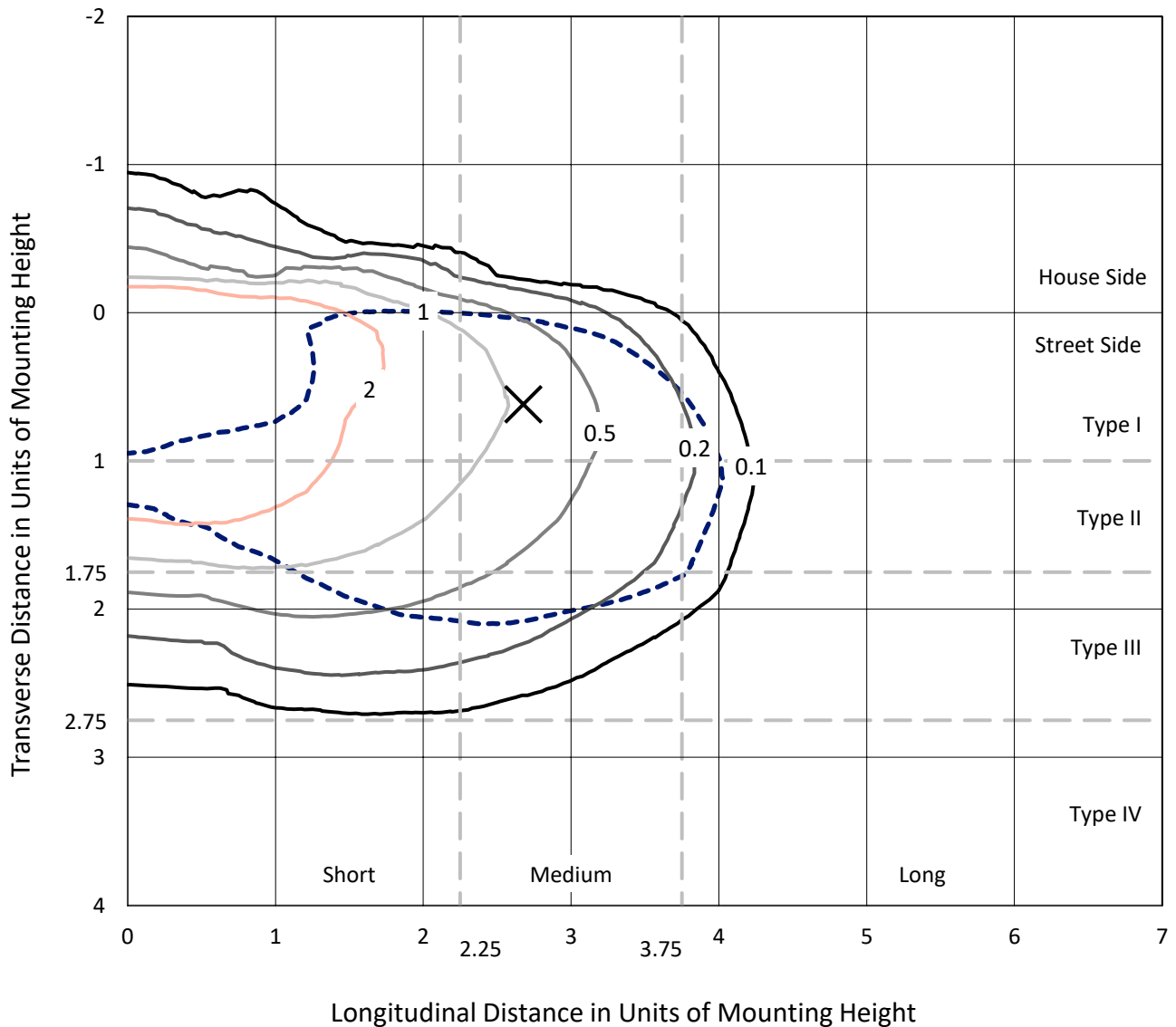
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

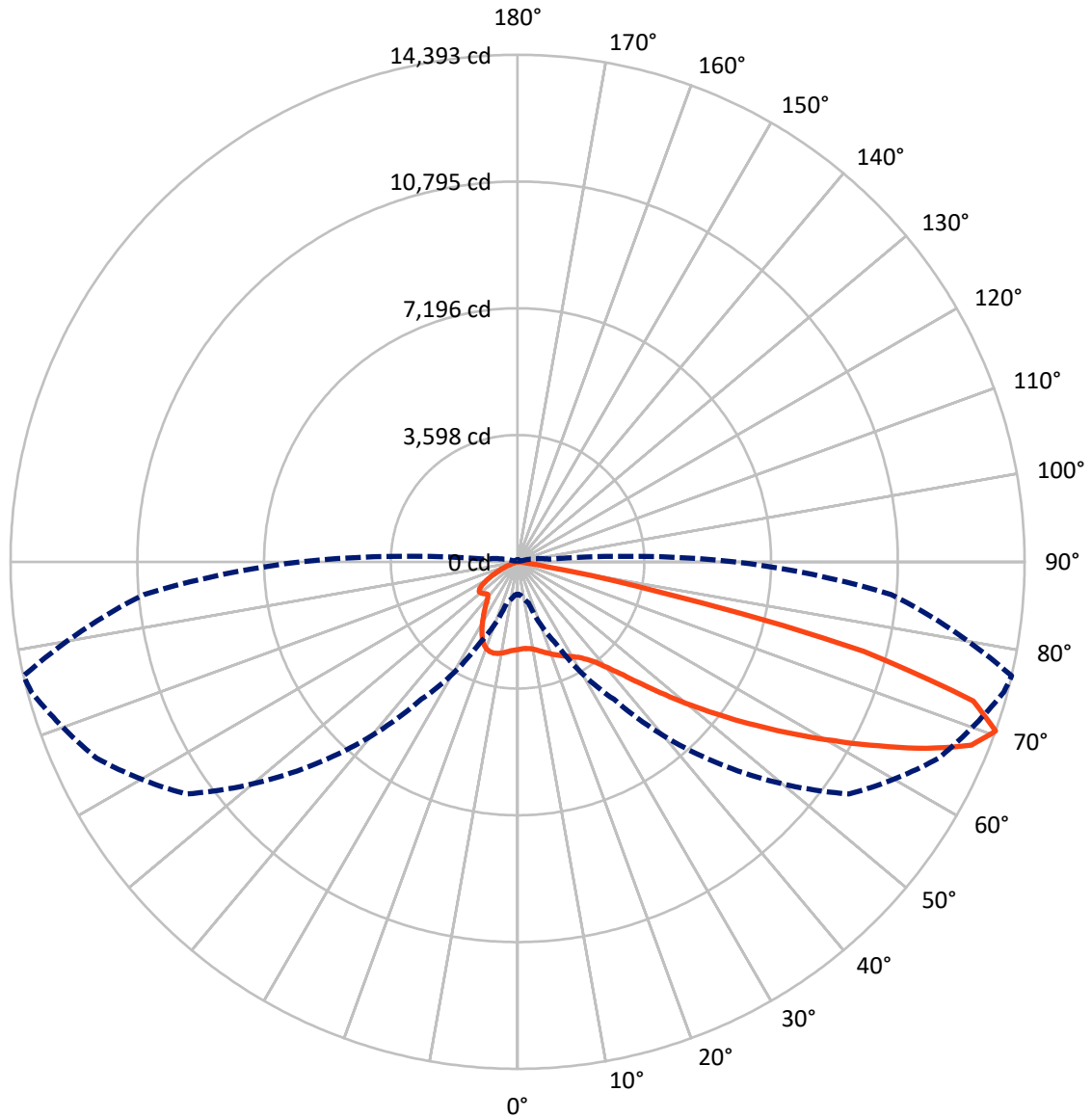
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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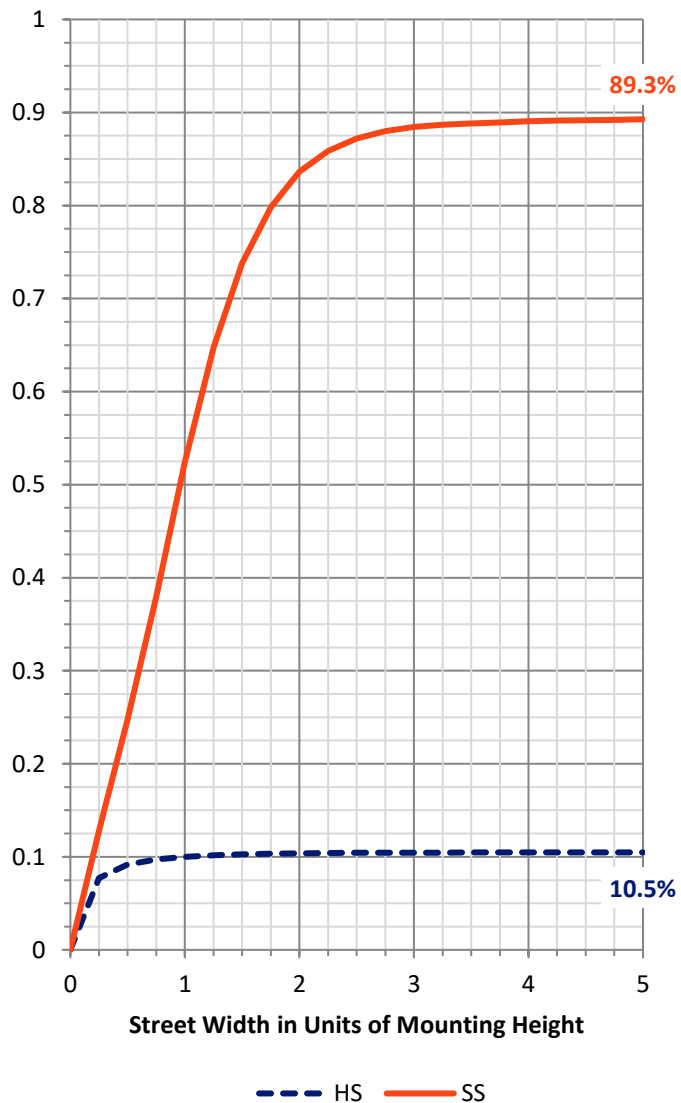
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1683.8	0.0	1683.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14289.8	0.0	14289.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	15973.6	0.0	15973.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.3
10°-20°	509.8	3.2
20°-30°	788.4	4.9
30°-40°	1430.7	9.0
40°-50°	2700.6	16.9
50°-60°	3902.2	24.4
60°-70°	4153.7	26.0
70°-80°	2201.2	13.8
80°-90°	72.3	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°	15973.6	100.0
0°-180°	15973.6	100.0

Coefficient of Utilization

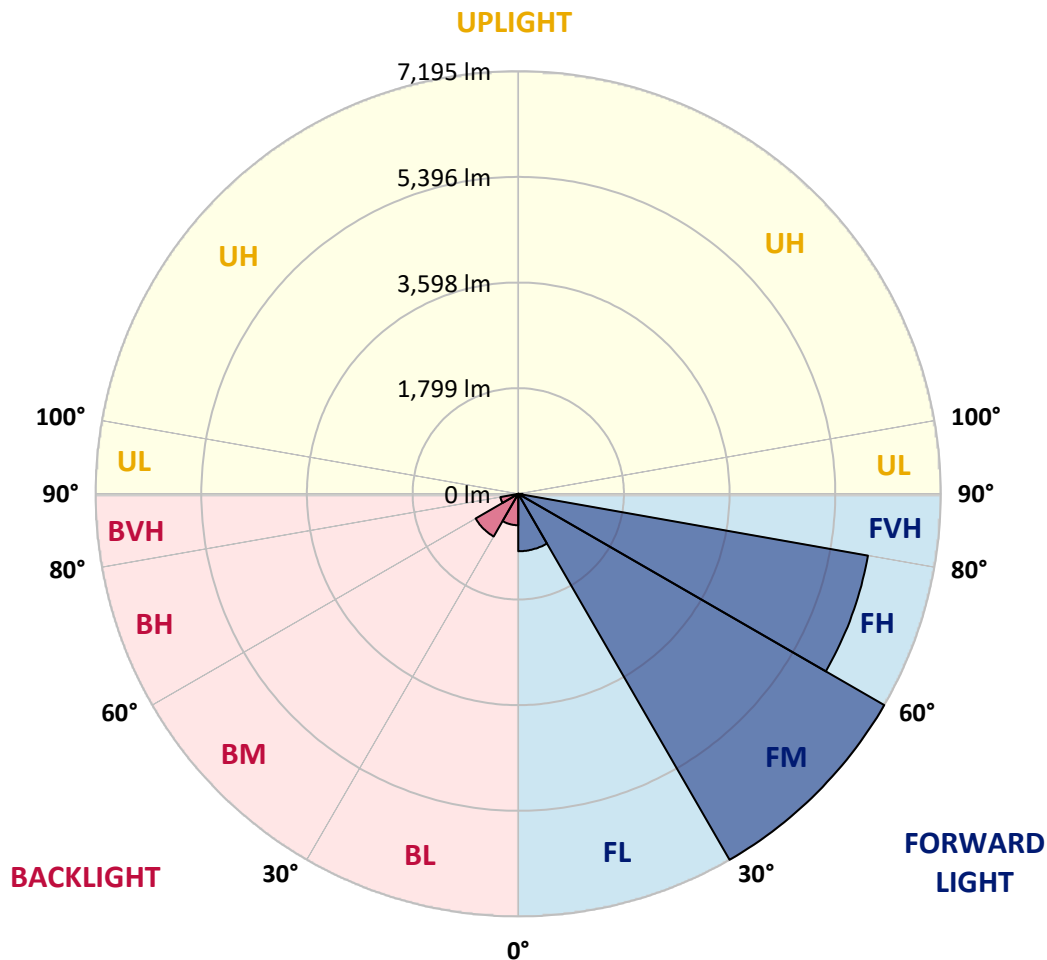


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	978.0	6.1			
FM (30°-60°)	7195.2	45.0			
FH (60°-80°)	6046.2	37.9			G3/7500
FVH (80°-90°)	70.3	0.4			G1/100
BL (0°-30°)	535.0	3.3	B2/1000		
BM (30°-60°)	838.2	5.2	B1/1000		
BH (60°-80°)	308.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.9	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6
2.5°	2339.3	2360.5	2357.4	2371.5	2376.6	2396.8	2417.0	2444.2	2474.5	2473.4	2493.6
5°	2207.1	2228.4	2233.4	2252.5	2276.7	2308.0	2349.4	2403.8	2460.3	2469.4	2509.7
7.5°	2050.8	2073.0	2086.1	2124.4	2168.8	2233.4	2300.9	2380.7	2474.5	2487.6	2565.3
10°	1894.4	1914.6	1931.7	1986.2	2056.9	2152.7	2262.6	2377.6	2503.7	2522.8	2632.8
12.5°	1797.5	1816.7	1835.9	1883.3	1971.1	2088.1	2237.4	2391.7	2552.1	2579.3	2724.7
15°	1763.3	1780.4	1795.6	1837.9	1919.6	2052.8	2232.3	2420.9	2613.6	2649.9	2835.6
17.5°	1768.3	1777.5	1787.5	1819.8	1899.4	2036.7	2241.5	2471.4	2686.3	2718.6	2946.6
20°	1797.5	1802.7	1803.6	1825.8	1896.5	2034.6	2259.6	2519.9	2754.9	2798.2	3056.4
22.5°	1834.9	1836.9	1834.9	1850.0	1915.6	2049.8	2283.8	2578.4	2831.6	2871.8	3167.5
25°	2009.4	1971.1	1922.7	1893.4	1947.9	2079.0	2320.1	2657.0	2915.3	2954.6	3275.4
27.5°	2551.1	2441.1	2267.6	2073.0	2014.4	2121.3	2370.5	2736.7	3000.0	3035.3	3391.4
30°	3430.8	3286.5	2992.0	2553.2	2228.4	2210.1	2436.1	2816.4	3089.8	3128.1	3515.4
32.5°	4312.4	4277.0	3937.1	3329.8	2709.5	2407.8	2545.1	2924.3	3208.8	3239.1	3682.9
35°	5204.1	5132.5	4854.1	4253.9	3450.9	2810.3	2726.6	3065.6	3365.2	3399.4	3927.1
37.5°	5887.0	5843.6	5671.1	5176.9	4330.5	3431.7	3037.3	3284.5	3592.1	3630.4	4239.7
40°	6490.2	6470.1	6411.6	6085.7	5314.0	4244.8	3520.5	3623.4	3906.9	3952.3	4623.1
42.5°	6964.4	7011.7	7045.0	6954.3	6327.8	5172.9	4170.1	4099.5	4345.7	4392.0	5111.3
45°	7449.6	7465.7	7599.9	7731.0	7334.6	6143.2	4902.5	4657.4	4891.4	4948.9	5696.3
47.5°	7761.3	7825.8	8061.8	8292.9	8180.9	7105.6	5689.3	5316.1	5523.8	5631.8	6352.0
50°	7784.5	7906.5	8231.4	8633.8	8797.3	8021.5	6544.7	6066.6	6287.5	6406.6	7052.1
52.5°	7398.1	7587.8	8091.1	8680.2	9130.1	8797.3	7429.4	6817.1	7100.6	7255.9	7778.4
55°	5672.1	5920.3	7563.6	8428.1	9143.2	9385.3	8290.8	7598.8	8006.4	8181.9	8563.3
57.5°	4941.8	5066.9	5946.5	7990.3	8900.2	9622.4	9069.6	8343.3	8991.9	9209.8	9304.6
60°	4111.6	4276.1	4987.2	7274.0	8570.2	9645.6	9757.6	9303.6	10060.2	10305.3	9984.5
62.5°	2794.3	2972.8	3679.9	6043.4	8119.3	9634.5	10321.4	10292.2	11247.4	11510.7	10560.5
65°	1731.0	1843.0	2309.0	4934.8	7488.9	9646.6	10911.5	11492.6	12500.3	12767.6	11006.3
67.5°	1367.9	1419.3	1662.4	3788.8	6402.5	9374.2	11500.7	12621.3	13679.5	13891.4	11142.6
70°	919.0	950.3	1209.5	2540.1	4763.3	8117.4	11489.5	13188.3	14286.9	14392.7	10646.3
72.5°	484.2	508.4	707.1	1176.2	2877.0	5770.0	9684.9	12510.4	13682.6	13523.2	9099.8
75°	242.1	282.5	476.1	597.2	1228.7	3217.9	6014.1	9863.5	10769.4	10152.0	5838.6
77.5°	183.6	221.9	393.4	393.4	427.7	1083.4	2547.1	5379.6	4962.0	4131.8	1713.9
80°	117.1	151.3	344.0	297.6	178.6	275.4	663.8	1507.1	1054.1	802.0	311.7
82.5°	68.6	98.8	286.5	196.7	99.8	101.9	187.6	320.8	273.4	212.9	95.8
85°	27.3	64.6	196.7	77.7	39.4	25.2	56.5	68.6	56.5	42.3	24.2
87.5°	0.0	15.2	34.3	0.0	3.1	2.0	4.0	5.0	5.0	4.0	8.1
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°	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6
2.5°	2502.6	2504.7	2510.7	2511.8	2497.6	2479.5	2472.4	2469.4	2457.3	2456.3	2458.3
5°	2533.0	2542.0	2533.0	2506.7	2444.2	2356.4	2289.8	2235.4	2185.9	2170.8	2161.7
7.5°	2593.5	2602.6	2575.3	2472.4	2315.1	2140.5	1983.2	1872.3	1772.3	1735.0	1720.0
10°	2680.3	2692.4	2606.6	2398.8	2120.4	1840.0	1573.7	1386.0	1239.7	1180.2	1155.0
12.5°	2789.1	2794.3	2623.7	2286.8	1867.1	1466.7	1089.5	888.7	758.6	710.1	695.1
15°	2909.3	2902.2	2625.7	2134.5	1522.2	1037.0	711.1	584.0	531.6	515.5	515.5
17.5°	3035.3	3006.0	2585.4	1914.6	1143.9	709.1	527.6	497.3	488.2	484.2	483.2
20°	3159.4	3093.9	2511.8	1627.1	821.1	529.6	479.2	470.1	465.0	463.0	461.0
22.5°	3272.3	3160.4	2385.7	1293.2	596.1	468.0	452.9	444.8	435.7	431.7	430.7
25°	3382.3	3198.7	2208.2	981.5	477.1	437.8	425.7	410.5	398.4	393.4	391.3
27.5°	3489.2	3222.9	1986.2	726.3	425.7	409.6	387.3	366.1	357.1	355.1	353.0
30°	3603.2	3231.0	1734.0	541.7	394.4	374.2	341.9	317.8	312.7	313.8	313.8
32.5°	3742.5	3243.1	1479.8	443.8	368.2	331.9	293.6	268.3	264.2	268.3	267.3
35°	3908.8	3267.3	1234.7	408.6	345.0	288.5	247.1	225.9	221.9	225.0	224.0
37.5°	4134.8	3306.6	1005.7	401.5	325.8	252.2	207.8	190.6	190.6	191.7	190.6
40°	4435.5	3411.6	800.9	396.5	315.7	225.0	175.5	168.5	171.5	173.5	173.5
42.5°	4801.6	3634.5	662.8	390.4	304.6	212.9	159.4	156.3	161.4	163.4	163.4
45°	5212.1	3916.9	614.3	380.3	294.6	220.9	152.3	148.3	154.4	155.4	156.3
47.5°	5636.9	4193.4	608.2	369.2	284.4	233.0	150.3	141.2	148.3	149.3	150.3
50°	6066.6	4373.9	614.3	352.1	268.3	233.0	151.3	134.2	140.2	143.2	144.2
52.5°	6499.3	4456.6	610.3	314.8	240.1	218.9	151.3	128.1	134.2	136.2	136.2
55°	6919.0	4440.5	548.8	259.2	203.8	193.7	147.3	123.1	127.1	128.1	128.1
57.5°	7250.8	4215.5	434.8	201.7	165.4	161.4	134.2	117.1	120.0	119.0	119.0
60°	7424.4	3721.3	310.7	155.4	130.2	127.1	118.0	109.0	111.0	105.9	105.0
62.5°	7426.3	3067.6	207.8	123.1	103.9	100.9	100.9	97.9	95.8	85.8	82.7
65°	7268.0	2342.3	138.2	97.9	83.7	78.7	84.8	83.7	76.7	62.5	60.5
67.5°	6908.9	1535.3	105.0	76.7	64.6	61.5	67.5	70.6	65.6	52.5	51.5
70°	6170.5	893.7	86.7	59.6	48.4	45.4	54.4	60.5	54.4	42.3	40.4
72.5°	5125.4	482.2	70.6	44.4	33.3	30.2	43.4	49.4	43.4	31.3	30.2
75°	3325.8	258.2	54.4	29.2	17.1	19.2	32.3	36.3	30.2	20.2	18.1
77.5°	1116.6	114.0	34.3	14.1	8.1	8.1	19.2	22.2	14.1	7.1	6.0
80°	249.2	47.5	14.1	6.0	3.1	3.1	4.0	4.0	2.0	0.0	0.0
82.5°	81.7	19.2	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.3	7.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	1.0	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)