

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: P959801

Luminaire Tested: **NAV-SB1B-730-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-730-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

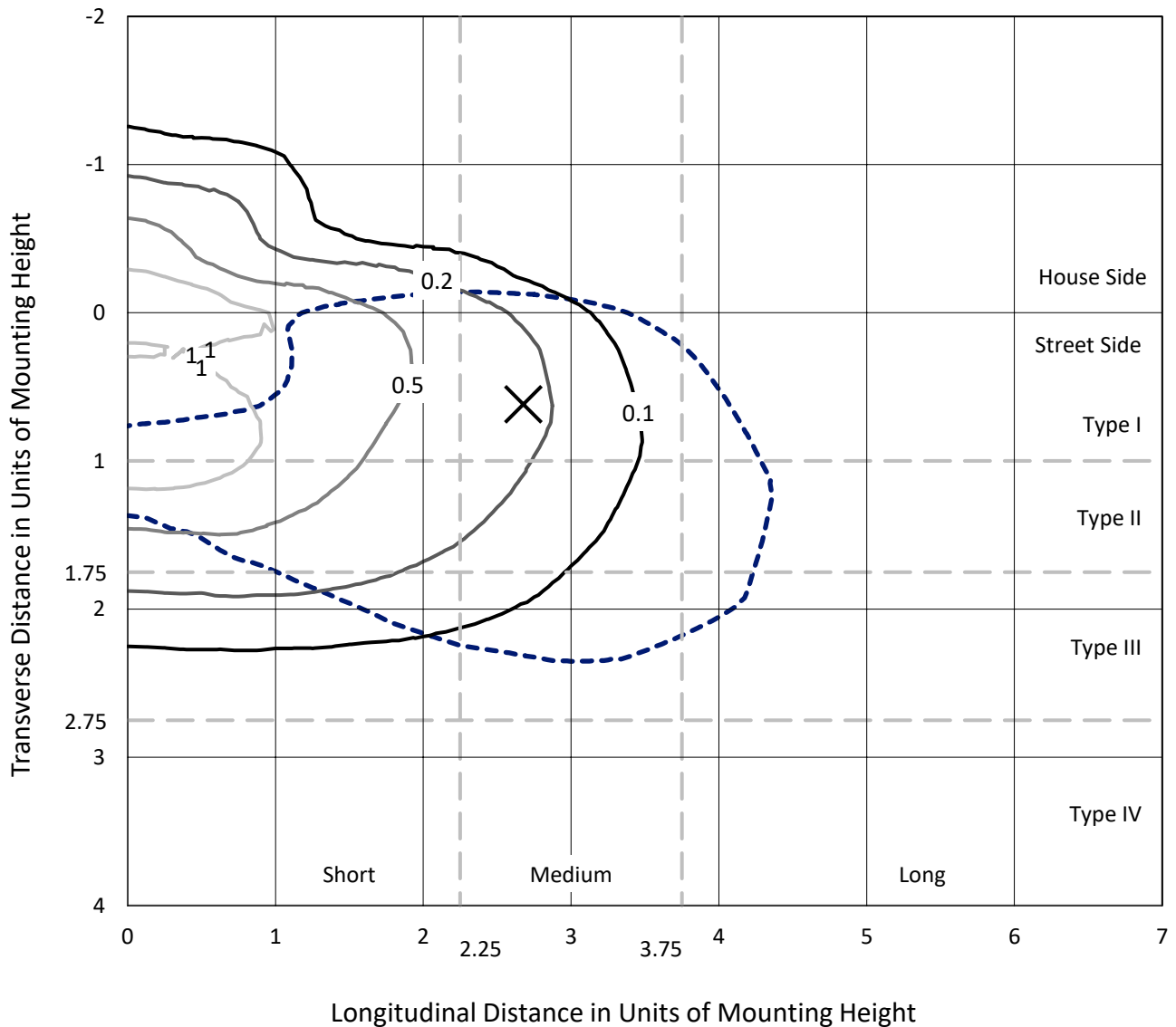
Lumens per Lamp: N/A  
Luminaire Lumens: 5927.6 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): 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

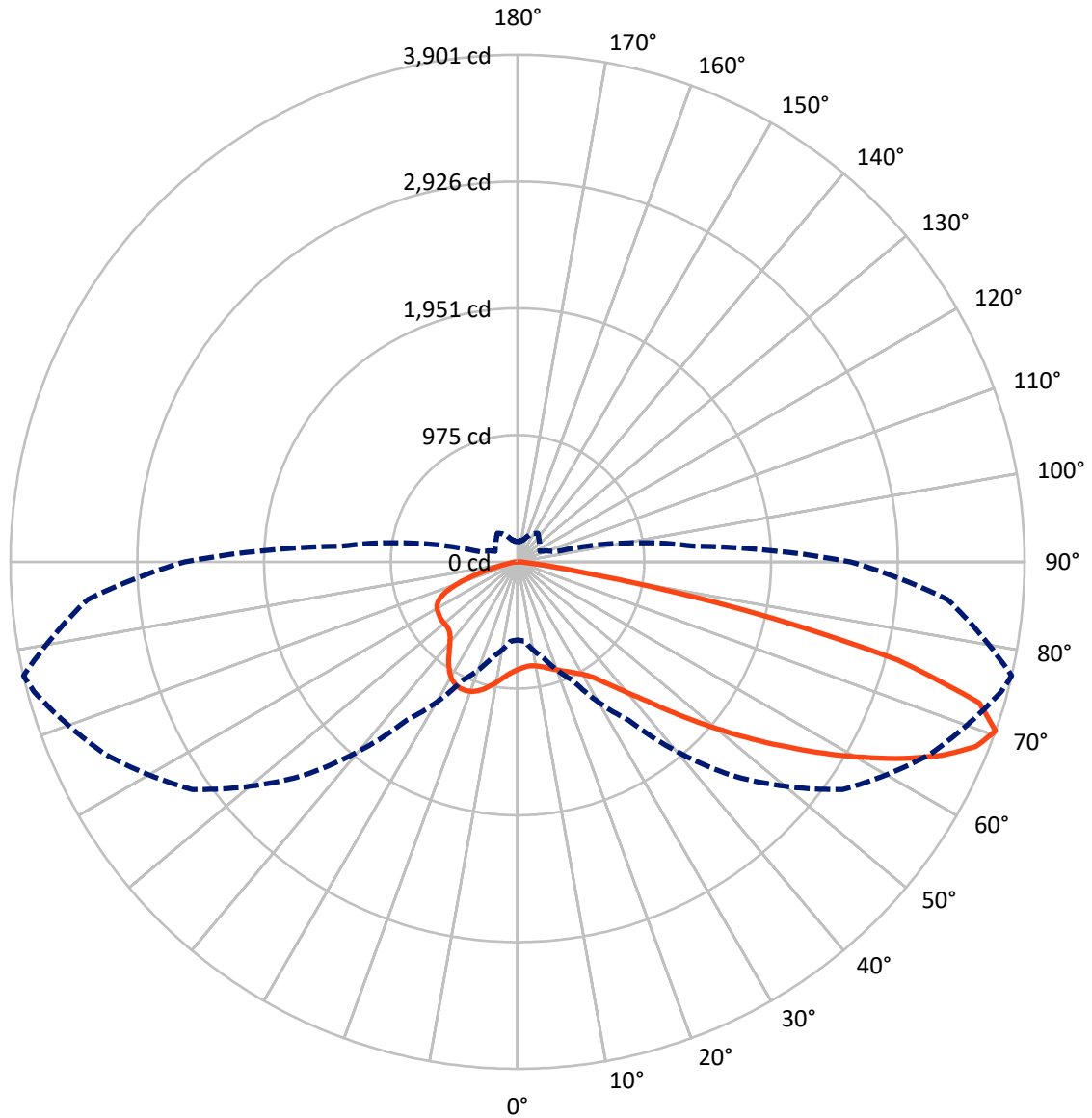
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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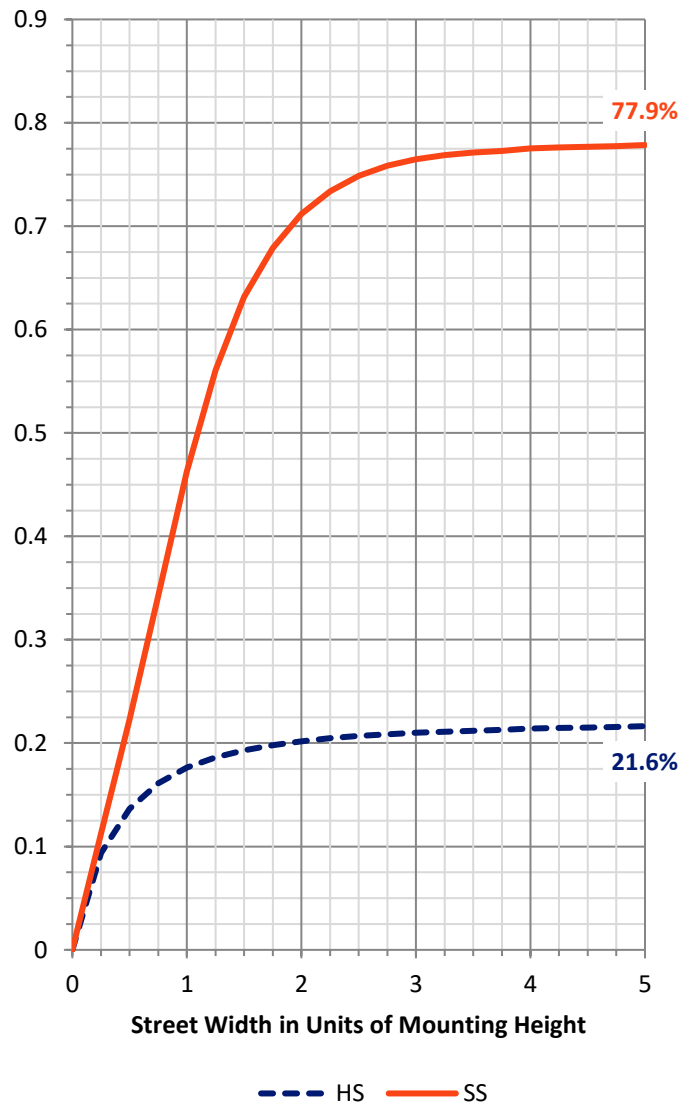
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1298.0	0.0	1298.0
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	4629.5	0.0	4629.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	5927.6	0.0	5927.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	1.3
10°-20°	227.6	3.8
20°-30°	389.3	6.6
30°-40°	626.0	10.6
40°-50°	977.3	16.5
50°-60°	1305.5	22.0
60°-70°	1391.4	23.5
70°-80°	856.6	14.5
80°-90°	75.1	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°	5927.6	100.0
0°-180°	5927.6	100.0

**Coefficient of Utilization**

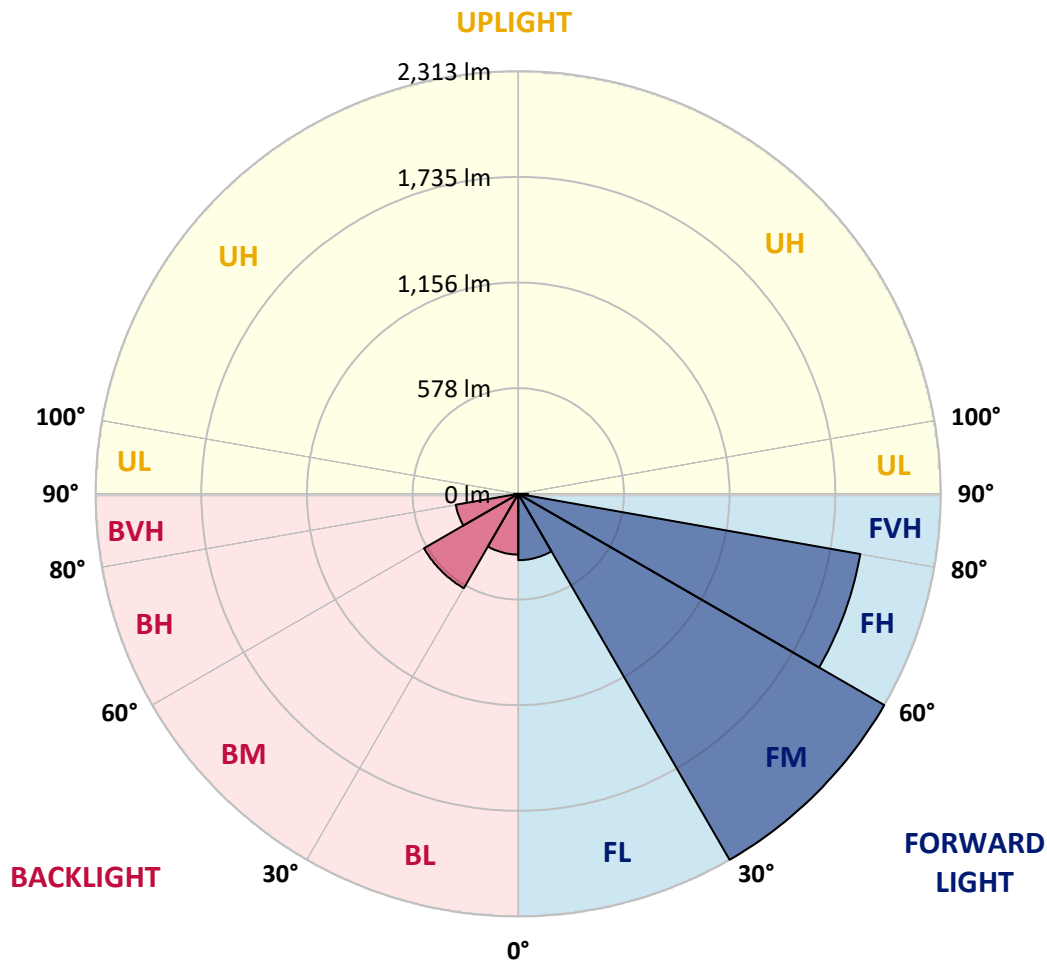


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.2	6.1			
FM (30°-60°)	2312.8	39.0			
FH (60°-80°)	1901.1	32.1			G2/5000
FVH (80°-90°)	52.5	0.9			G1/100
BL (0°-30°)	332.6	5.6	B1/500		
BM (30°-60°)	596.0	10.1	B1/1000		
BH (60°-80°)	346.9	5.9	B1/500		G1/500
BVH (80°-90°)	22.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0
2.5°	762.3	762.0	766.0	767.1	774.4	779.6	789.4	799.6	813.0	814.5	822.7
5°	718.3	718.3	722.8	727.6	737.1	747.4	762.3	780.2	803.3	806.9	827.3
7.5°	680.9	683.4	687.3	696.7	707.7	722.5	745.3	770.8	801.1	806.9	839.7
10°	650.9	653.6	658.5	666.0	682.4	703.0	732.9	765.7	806.3	815.4	857.9
12.5°	641.4	644.2	646.9	652.7	667.9	692.2	727.6	768.0	818.8	827.9	882.8
15°	663.3	666.7	664.5	663.0	670.9	693.1	730.1	776.8	834.2	847.3	913.5
17.5°	713.7	714.9	710.1	695.8	694.5	706.4	741.7	789.0	853.6	868.0	944.4
20°	795.1	792.9	782.9	754.7	738.6	736.2	761.4	807.2	873.7	888.9	977.8
22.5°	905.6	903.1	883.1	838.4	802.7	779.0	789.9	830.9	896.2	913.2	1010.3
25°	1043.4	1040.1	1010.6	949.9	894.3	835.8	828.8	862.1	923.8	939.6	1044.3
27.5°	1204.3	1201.6	1169.7	1089.6	1009.4	913.5	877.1	898.9	952.6	970.6	1082.6
30°	1377.3	1385.2	1328.8	1242.5	1141.1	1014.9	942.0	944.1	989.9	1006.0	1129.0
32.5°	1580.8	1594.4	1526.4	1417.1	1278.7	1125.0	1024.0	1007.3	1044.3	1057.7	1187.6
35°	1782.3	1797.7	1741.4	1620.5	1461.1	1255.0	1109.6	1079.8	1116.5	1131.1	1265.4
37.5°	1956.5	1977.2	1948.1	1843.1	1656.3	1411.6	1221.3	1165.1	1205.5	1223.7	1369.7
40°	2094.1	2125.6	2123.5	2058.0	1886.4	1601.7	1363.0	1270.5	1316.0	1335.8	1496.3
42.5°	2205.8	2233.2	2256.8	2253.5	2126.6	1817.5	1529.7	1407.4	1442.0	1464.7	1638.8
45°	2282.9	2312.1	2363.0	2418.0	2357.6	2048.6	1720.7	1569.8	1601.4	1635.7	1808.4
47.5°	2351.9	2385.0	2451.1	2538.2	2553.7	2280.5	1929.9	1758.9	1787.8	1823.3	1978.8
50°	2357.9	2386.4	2489.0	2612.6	2693.1	2503.4	2154.5	1971.2	1998.1	2036.1	2161.2
52.5°	2211.2	2256.2	2435.3	2610.5	2757.1	2689.7	2377.6	2191.9	2222.2	2267.7	2350.0
55°	1716.5	1782.3	2277.8	2529.1	2734.4	2810.2	2589.9	2426.5	2465.3	2513.0	2540.1
57.5°	1478.5	1507.3	1808.1	2381.0	2630.6	2841.5	2768.9	2663.6	2726.2	2778.4	2741.1
60°	1328.8	1352.8	1530.6	2150.6	2493.9	2792.0	2907.4	2884.7	2992.7	3054.9	2946.6
62.5°	1168.5	1191.3	1353.1	1795.7	2319.1	2709.8	2994.8	3088.6	3266.0	3333.9	3140.2
65°	1009.4	1028.8	1184.0	1508.8	2096.8	2627.5	3040.0	3265.0	3518.8	3589.2	3301.1
67.5°	832.1	848.2	994.9	1272.9	1826.7	2514.8	3062.5	3403.7	3738.9	3799.3	3380.7
70°	600.4	612.9	764.4	1006.7	1487.6	2321.2	3053.4	3502.1	3853.1	3901.3	3320.6
72.5°	283.8	295.1	472.9	653.6	1050.7	1944.1	2869.2	3424.1	3737.0	3713.1	2952.6
75°	151.5	161.2	271.7	358.5	554.9	1332.7	2347.9	2949.5	3138.1	3021.5	2182.1
77.5°	102.6	110.2	168.2	215.2	253.5	632.6	1509.1	2042.2	1964.7	1772.3	1092.9
80°	81.4	89.3	137.9	145.8	122.7	228.6	623.5	945.4	679.1	543.1	310.9
82.5°	62.5	71.3	115.9	105.7	66.8	93.8	181.5	299.0	173.9	132.3	75.3
85°	38.2	47.7	91.1	67.4	37.6	42.8	61.6	83.2	53.1	44.3	27.1
87.5°	19.5	27.4	46.1	24.6	17.0	10.0	16.4	16.4	13.9	12.1	7.0
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°	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0	827.0
2.5°	829.9	836.1	846.3	856.1	863.7	870.9	878.2	882.2	883.4	888.3	891.0
5°	839.7	851.0	870.9	889.8	901.6	908.9	914.1	917.1	917.7	919.2	921.7
7.5°	857.6	875.6	903.4	922.3	931.1	930.5	928.3	920.8	917.7	915.0	915.6
10°	882.8	906.5	940.7	953.9	948.4	933.8	915.0	892.9	882.5	872.5	869.4
12.5°	914.1	944.1	977.8	977.2	950.2	912.9	869.1	835.2	813.5	798.1	794.5
15°	952.0	986.7	1012.4	991.8	932.6	865.5	801.4	757.2	737.7	720.7	718.8
17.5°	991.2	1028.2	1040.1	987.3	888.3	795.4	722.8	687.9	668.8	659.7	662.5
20°	1029.4	1066.2	1056.5	961.1	820.9	715.9	651.2	632.0	628.1	630.3	629.3
22.5°	1069.8	1102.6	1059.7	910.7	734.9	634.5	599.0	599.5	608.3	614.8	616.2
25°	1111.1	1133.2	1051.0	837.8	642.7	574.7	565.9	575.5	592.9	605.4	608.6
27.5°	1150.9	1160.6	1031.9	747.7	563.4	531.9	533.4	553.4	579.5	596.9	601.1
30°	1195.8	1184.9	995.2	646.4	508.5	495.2	507.9	531.3	557.4	572.9	576.5
32.5°	1246.5	1205.8	936.8	552.5	469.7	465.7	486.7	501.8	513.3	517.9	520.3
35°	1309.6	1235.2	862.1	486.7	434.7	444.1	464.2	456.5	452.0	449.6	452.0
37.5°	1391.6	1275.0	774.7	443.8	406.5	428.7	436.9	413.2	395.2	386.4	388.6
40°	1490.2	1333.3	690.6	410.7	388.6	415.3	401.0	372.5	349.7	337.3	338.1
42.5°	1599.8	1394.3	619.9	385.8	378.5	404.4	374.6	340.6	303.9	299.9	303.9
45°	1714.9	1457.1	571.6	366.7	373.7	394.9	359.5	304.5	278.4	294.5	303.0
47.5°	1829.9	1514.8	542.5	352.5	371.3	384.4	346.0	284.4	265.9	289.4	300.2
50°	1958.1	1566.5	529.4	342.1	368.6	380.1	326.1	279.3	252.9	268.3	279.9
52.5°	2085.3	1606.6	519.8	331.8	364.6	376.8	316.3	273.3	237.1	238.0	244.4
55°	2212.2	1632.6	509.1	318.2	355.8	369.4	315.4	266.5	225.3	221.0	224.1
57.5°	2347.6	1647.5	496.1	303.0	340.6	351.0	314.5	261.4	221.6	214.6	215.6
60°	2485.4	1669.4	479.1	284.4	320.3	328.8	312.4	259.5	219.5	207.7	208.6
62.5°	2608.9	1677.0	458.7	266.8	294.2	306.9	307.8	258.0	213.7	193.4	193.4
65°	2690.0	1644.2	423.2	246.8	265.9	284.4	299.0	252.9	203.4	183.1	183.1
67.5°	2686.7	1550.7	367.7	221.0	238.6	259.5	286.3	244.1	191.0	170.4	171.2
70°	2561.6	1366.1	297.2	191.0	208.6	232.9	269.9	231.0	176.1	156.3	158.2
72.5°	2197.0	1069.2	215.9	155.7	173.6	205.2	248.7	215.2	160.9	143.9	143.0
75°	1569.5	676.7	146.4	119.6	135.1	173.9	222.2	196.7	146.9	144.5	136.3
77.5°	801.8	323.3	96.9	87.4	94.1	137.2	186.7	175.8	149.0	119.3	106.3
80°	260.8	119.3	61.0	59.6	62.5	91.3	144.5	144.2	113.0	81.1	71.6
82.5°	83.2	51.4	39.8	38.2	36.7	57.4	100.8	114.2	76.2	51.4	51.0
85°	33.1	30.6	23.4	21.5	15.5	27.1	52.8	75.8	56.8	37.0	37.9
87.5°	12.1	12.1	6.4	4.5	3.4	9.1	14.2	22.8	32.5	19.2	18.9
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)