

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: P960306

Luminaire Tested: **NAV-SB1C-730-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-730-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6546.7 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

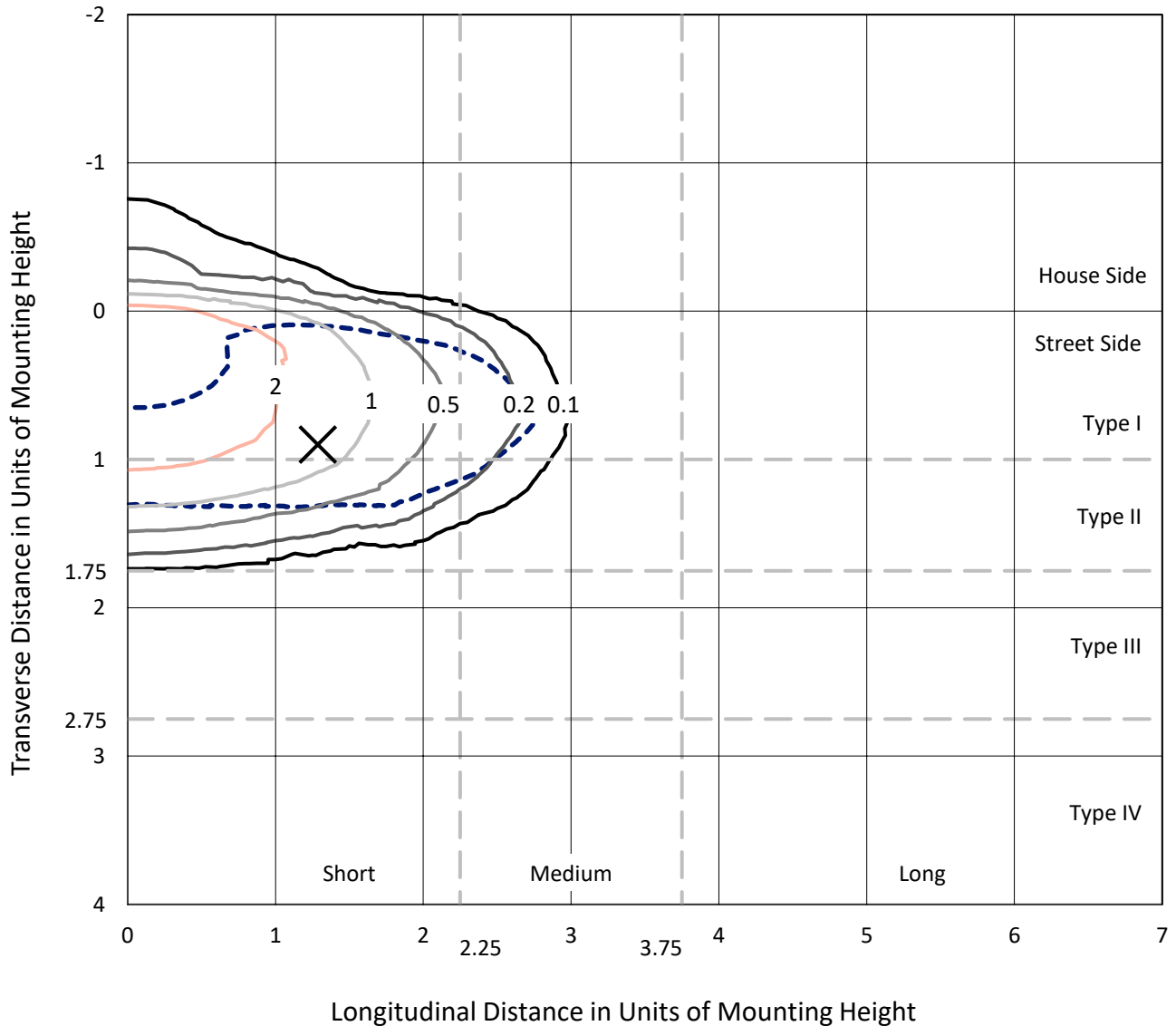
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

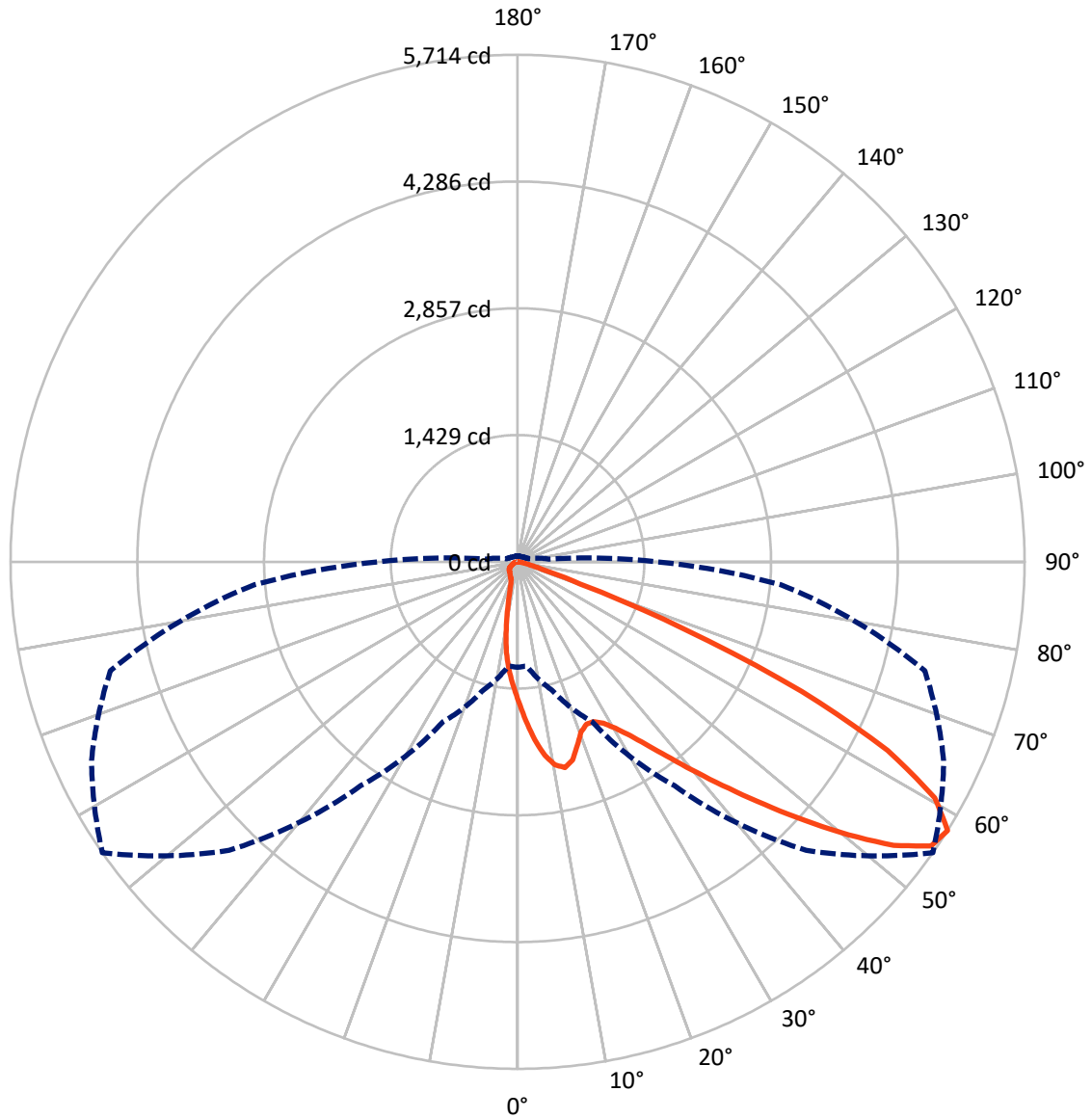
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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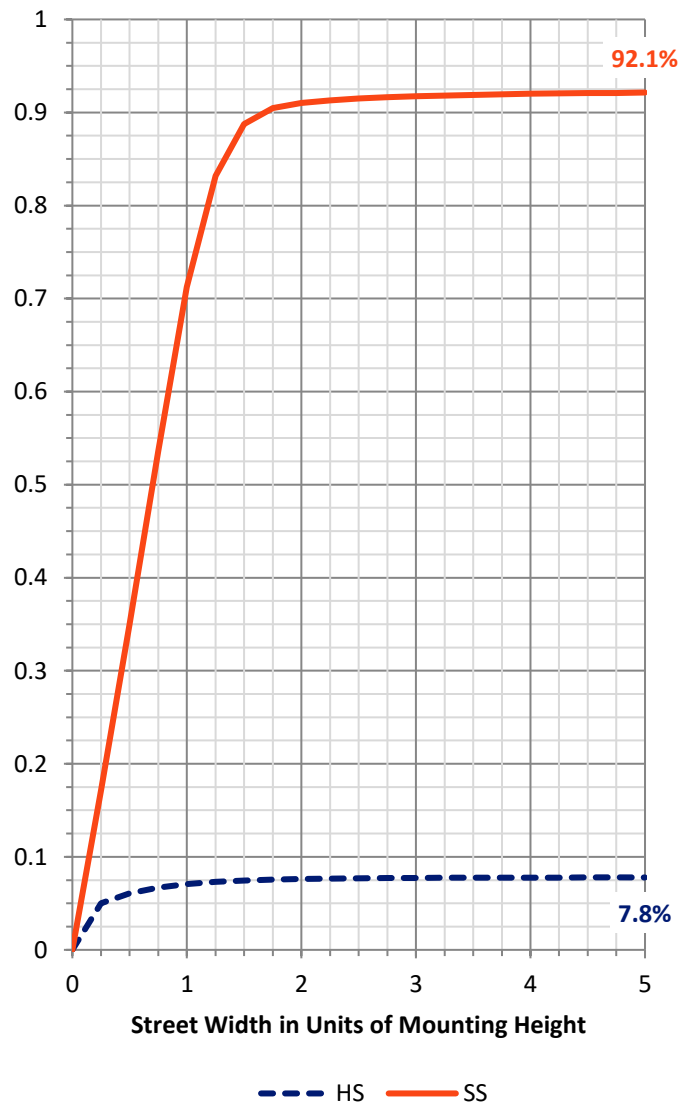
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	511.3	0.0	511.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	6035.4	0.0	6035.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	6546.7	0.0	6546.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	2.2
10°-20°	354.6	5.4
20°-30°	567.3	8.7
30°-40°	960.2	14.7
40°-50°	1576.4	24.1
50°-60°	1732.6	26.5
60°-70°	993.8	15.2
70°-80°	203.1	3.1
80°-90°	12.0	0.2
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°	6546.7	100.0
0°-180°	6546.7	100.0

**Coefficient of Utilization**



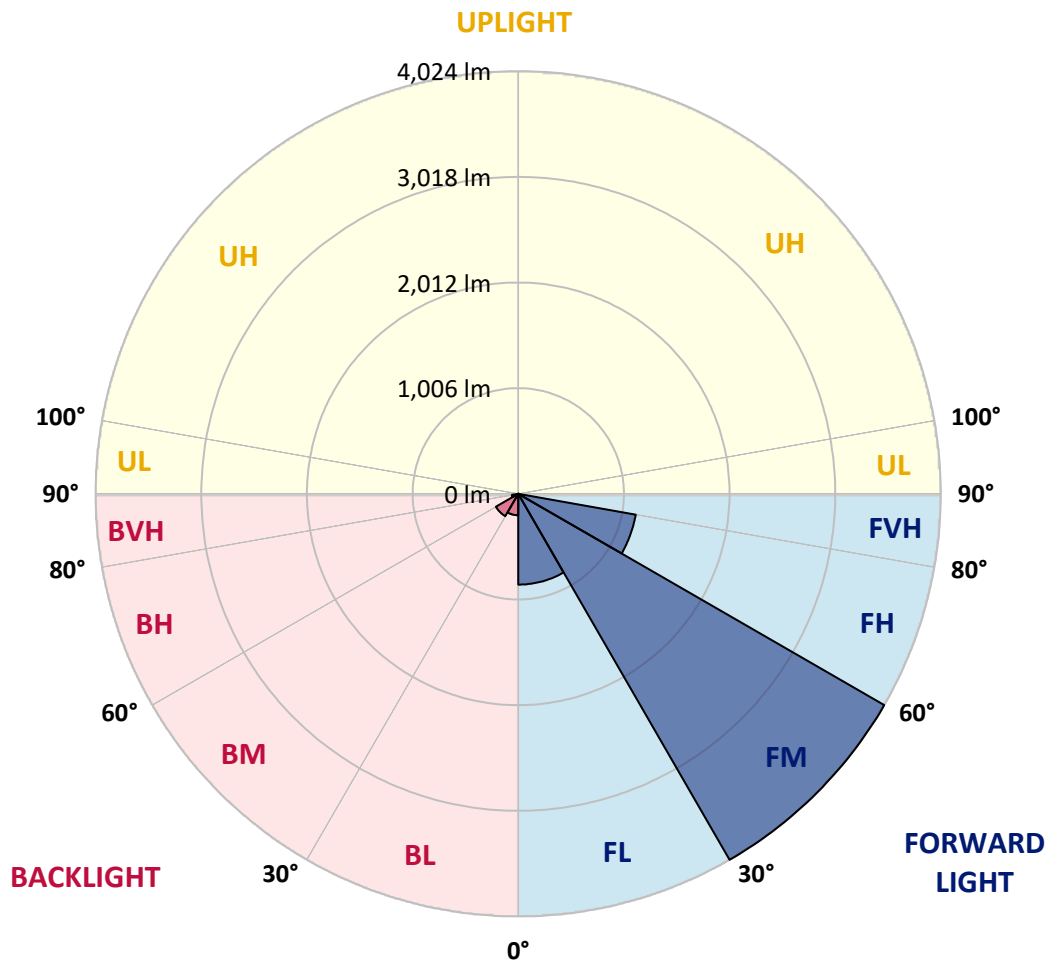
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.5	13.2			
FM (30°-60°)	4023.6	61.5			
FH (60°-80°)	1136.1	17.4			G1/1800
FVH (80°-90°)	11.2	0.2			G1/100
BL (0°-30°)	204.1	3.1	B1/500		
BM (30°-60°)	245.5	3.8	B1/1000		
BH (60°-80°)	60.8	0.9	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6
2.5°	1957.4	1932.8	1929.2	1924.3	1877.5	1842.4	1791.5	1735.8	1673.2	1609.5	1581.3
5°	2261.5	2242.1	2238.4	2215.8	2162.5	2102.8	2012.4	1898.1	1781.4	1644.2	1585.3
7.5°	2320.4	2316.7	2333.3	2332.5	2325.2	2278.0	2201.7	2065.7	1890.4	1686.9	1595.7
10°	2057.6	2066.8	2116.1	2159.3	2275.9	2343.8	2327.3	2215.0	2002.6	1735.8	1607.5
12.5°	1818.1	1807.3	1842.4	1891.2	2026.8	2228.8	2379.3	2339.8	2131.1	1791.1	1624.8
15°	1668.0	1663.6	1683.4	1705.9	1809.3	2012.8	2318.8	2441.0	2254.6	1856.5	1651.1
17.5°	1620.0	1616.3	1622.4	1628.0	1695.0	1852.5	2174.6	2503.3	2372.9	1931.2	1680.1
20°	1659.2	1654.2	1653.5	1649.0	1676.9	1784.3	2044.3	2507.7	2479.0	1999.1	1705.2
22.5°	1773.4	1767.7	1747.9	1730.2	1732.6	1793.5	1986.1	2463.3	2558.9	2062.4	1720.9
25°	1980.5	1971.2	1930.0	1870.2	1832.3	1858.1	1995.0	2404.8	2635.3	2112.0	1713.2
27.5°	2239.6	2227.5	2174.6	2085.8	1999.1	1967.6	2059.2	2364.4	2698.6	2150.0	1696.7
30°	2493.5	2477.8	2425.8	2356.7	2229.9	2130.7	2175.0	2382.1	2774.1	2189.6	1674.8
32.5°	2767.6	2752.7	2683.7	2598.1	2493.1	2359.5	2333.7	2468.9	2866.5	2244.9	1659.6
35°	3114.4	3091.0	2992.9	2876.3	2764.8	2629.5	2548.5	2618.7	2989.6	2329.2	1668.0
37.5°	3509.2	3477.7	3371.9	3210.9	3065.6	2914.2	2810.0	2824.6	3170.1	2442.3	1694.2
40°	3881.4	3852.8	3755.1	3603.3	3420.8	3237.2	3126.1	3093.9	3419.2	2579.9	1740.2
42.5°	4104.6	4078.8	4037.6	3973.4	3819.7	3632.3	3492.3	3422.4	3713.9	2744.6	1796.4
45°	4117.1	4094.6	4149.8	4224.5	4194.3	4069.6	3898.8	3770.8	4009.8	2899.2	1854.5
47.5°	3916.9	3901.6	4069.6	4330.3	4460.3	4512.8	4355.3	4090.1	4254.0	3010.2	1878.3
50°	3371.1	3365.5	3711.0	4189.8	4561.6	4901.1	4836.9	4387.2	4443.3	3067.6	1855.8
52.5°	2923.1	2902.5	3103.9	3740.1	4414.3	5105.3	5307.7	4678.7	4575.7	3078.5	1802.9
55°	2217.0	2198.8	2451.6	2987.7	3939.1	5032.6	5652.0	4979.4	4670.6	3050.6	1708.0
57.5°	1189.2	1177.9	1497.2	1988.5	3079.3	4596.7	5714.1	5297.5	4750.6	2976.7	1575.1
60°	463.0	461.0	580.5	964.8	1871.4	3739.7	5400.4	5488.5	4800.6	2885.9	1464.1
62.5°	280.1	286.2	305.6	433.2	826.8	2323.2	4677.5	5271.3	4834.1	2802.8	1372.5
65°	231.8	232.2	234.5	297.6	396.1	972.1	3521.3	4556.7	4751.3	2654.6	1242.5
67.5°	198.6	202.2	211.6	236.2	279.3	426.3	2027.2	3529.8	4247.9	2309.8	1039.9
70°	156.6	161.4	173.2	194.1	215.6	266.8	749.3	2348.6	3245.1	1741.1	786.4
72.5°	132.0	131.6	137.7	157.8	171.2	187.7	288.2	1316.0	1886.0	831.2	389.2
75°	102.1	106.2	113.9	132.0	140.1	136.0	156.2	480.8	675.8	251.9	132.4
77.5°	79.9	83.1	90.0	107.8	115.8	96.5	90.0	172.0	217.2	90.4	59.8
80°	36.0	38.7	61.4	79.5	94.5	66.6	48.9	88.0	96.5	41.2	30.2
82.5°	6.5	10.9	36.0	42.0	48.5	43.2	25.4	45.6	47.3	16.5	10.5
85°	0.4	0.8	12.5	15.4	19.4	14.1	7.7	18.1	15.8	5.6	4.0
87.5°	0.0	0.0	0.0	0.4	0.4	2.0	2.5	3.3	2.5	2.0	1.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6	1577.6
2.5°	1552.2	1494.9	1439.1	1393.5	1366.8	1321.6	1291.8	1286.9	1274.4	1285.4
5°	1522.3	1419.7	1316.0	1223.1	1146.9	1048.4	974.9	943.8	916.8	926.1
7.5°	1508.2	1346.2	1184.8	1026.1	863.0	705.6	588.6	539.8	502.6	507.8
10°	1489.2	1270.0	1016.9	774.7	556.3	400.9	320.1	290.3	273.7	274.1
12.5°	1474.7	1178.8	821.8	525.2	338.7	255.9	230.9	223.7	218.8	219.2
15°	1467.4	1071.3	629.3	350.0	242.2	216.8	210.7	207.5	204.3	203.9
17.5°	1455.3	951.9	460.6	255.5	212.0	203.1	197.8	194.1	190.1	189.3
20°	1437.2	816.2	336.7	216.0	198.6	191.8	184.5	179.7	174.8	173.9
22.5°	1403.6	672.9	258.7	199.8	188.9	181.2	172.4	166.8	161.8	161.0
25°	1341.4	538.5	218.0	189.7	180.4	171.2	161.4	153.9	149.3	148.5
27.5°	1262.7	423.0	197.8	180.4	169.5	161.0	150.2	142.9	138.9	138.1
30°	1169.8	325.7	186.1	169.9	156.6	149.3	139.7	133.7	131.2	131.2
32.5°	1069.8	260.3	181.2	159.5	145.3	137.2	129.6	127.2	126.4	126.0
35°	975.7	226.0	178.9	151.0	135.2	127.6	124.3	124.7	126.4	126.4
37.5°	892.2	215.1	177.6	144.9	126.4	119.5	121.5	125.2	123.5	123.5
40°	816.6	216.4	176.8	140.5	119.1	115.0	119.1	116.2	112.2	111.8
42.5°	758.9	226.4	175.2	136.8	114.6	111.8	110.2	105.8	105.4	106.2
45°	717.0	235.3	174.8	135.2	109.8	104.6	102.5	98.1	106.2	108.1
47.5°	667.3	235.3	174.8	129.6	101.7	99.7	96.5	91.6	99.7	101.7
50°	603.1	220.4	167.9	123.1	95.2	94.1	88.4	82.3	80.8	81.9
52.5°	521.9	193.3	150.6	114.3	88.8	86.4	79.5	75.1	73.9	73.9
55°	429.5	161.8	127.2	101.4	81.9	77.5	72.7	70.6	69.4	68.7
57.5°	349.2	132.8	102.1	90.0	75.4	69.8	68.3	65.8	63.8	62.5
60°	286.6	104.6	84.4	79.9	69.0	63.8	63.3	60.2	54.9	54.1
62.5°	221.2	76.7	71.0	69.4	62.5	58.1	57.3	50.8	42.7	41.2
65°	156.2	59.8	57.3	61.0	55.7	51.7	49.6	40.0	31.5	30.2
67.5°	109.8	50.0	45.2	53.3	48.5	43.2	42.0	33.9	26.2	25.4
70°	78.3	40.8	37.1	45.6	38.7	37.9	35.6	28.3	21.4	20.6
72.5°	55.4	31.1	28.7	39.6	26.6	32.7	29.1	21.8	16.2	15.4
75°	40.8	22.2	20.2	23.0	19.4	24.6	20.6	14.6	10.0	9.7
77.5°	29.8	14.1	12.1	11.3	11.3	15.4	11.3	6.0	4.4	4.0
80°	21.0	6.5	5.6	4.8	4.4	3.6	1.6	0.8	0.4	0.4
82.5°	12.5	2.9	2.9	2.0	1.2	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	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

(END OF REPORT)