

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: P959771

Luminaire Tested: **NAV-SB1B-727-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-727-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5358.7 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

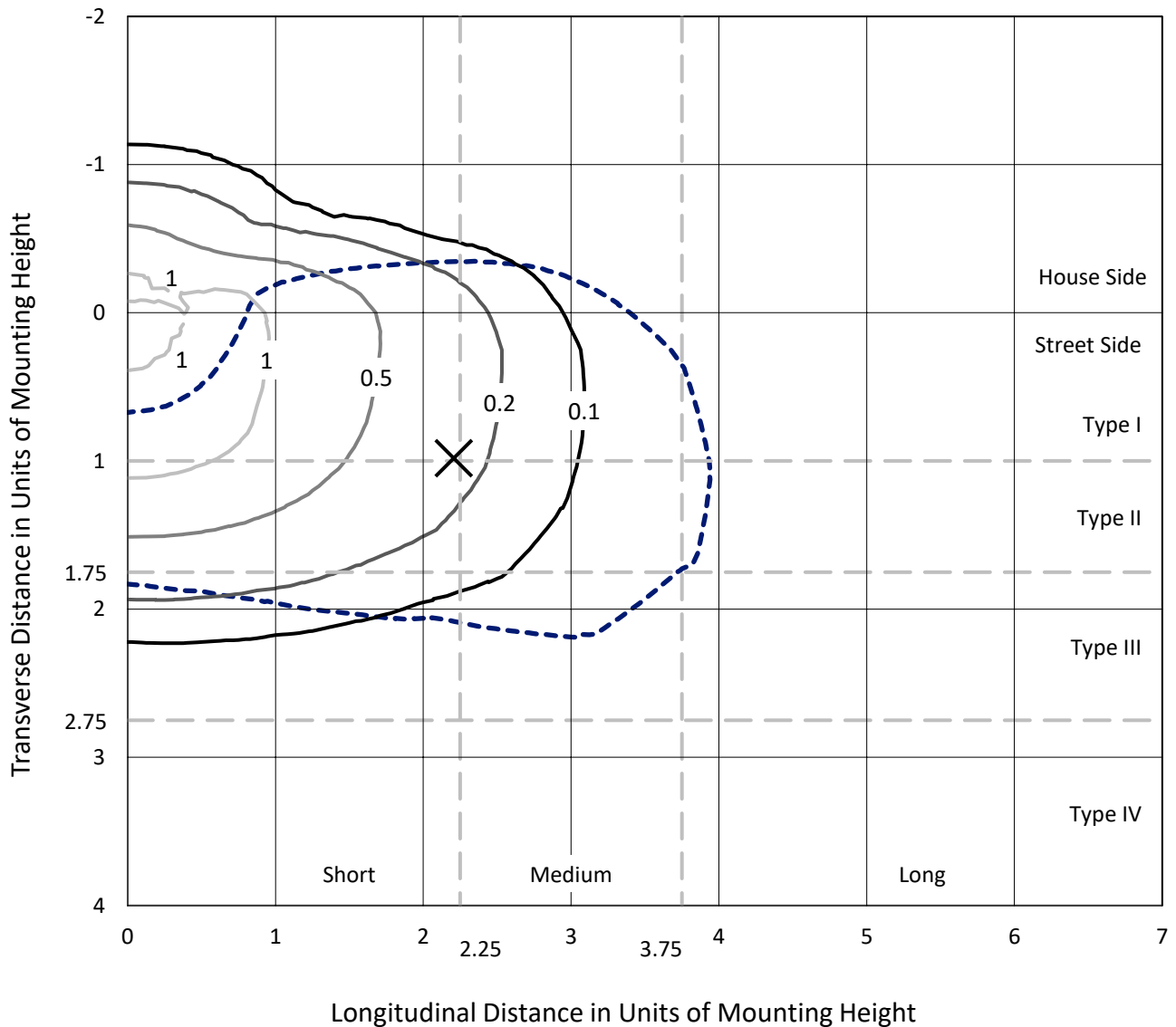
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

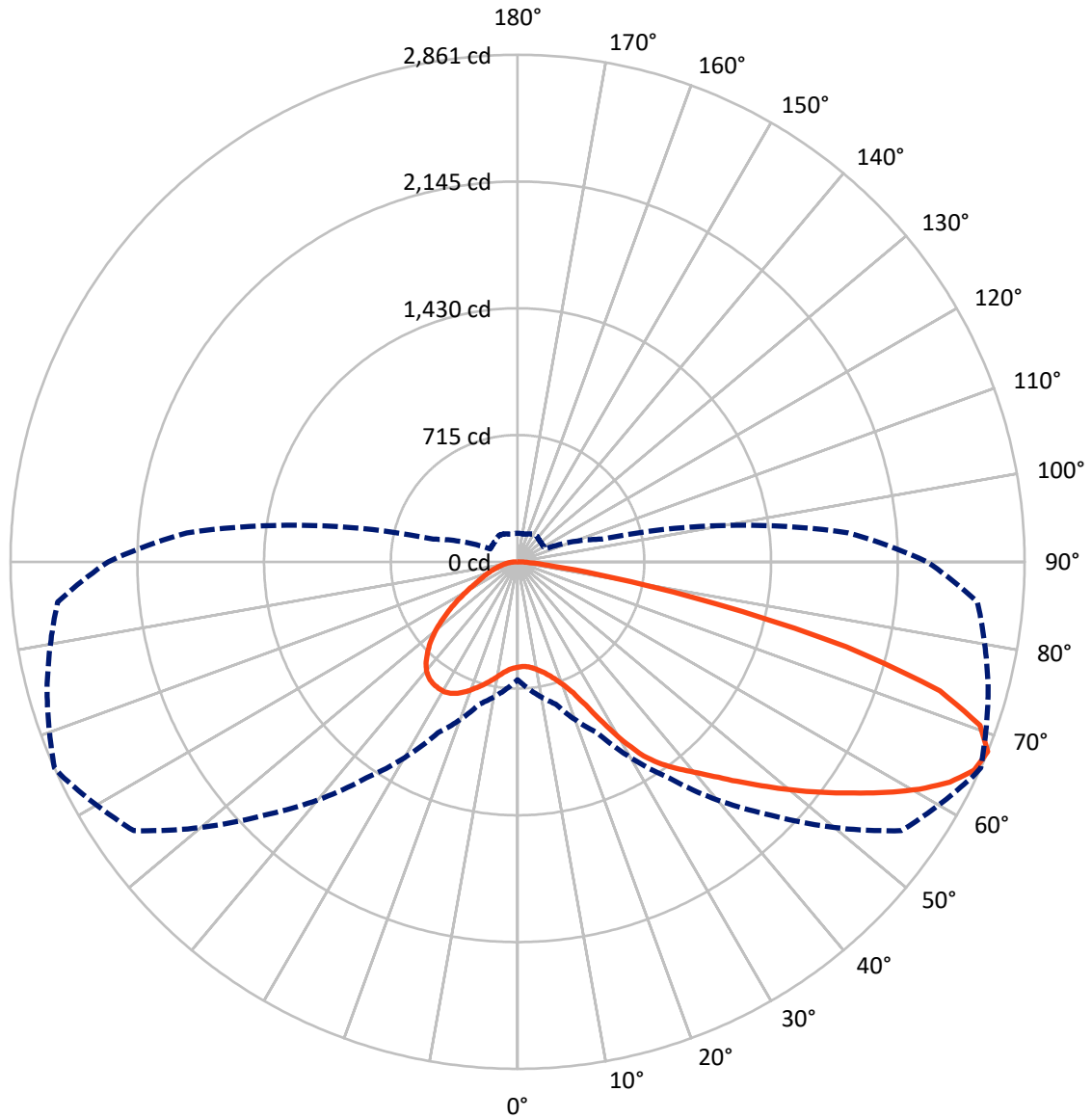
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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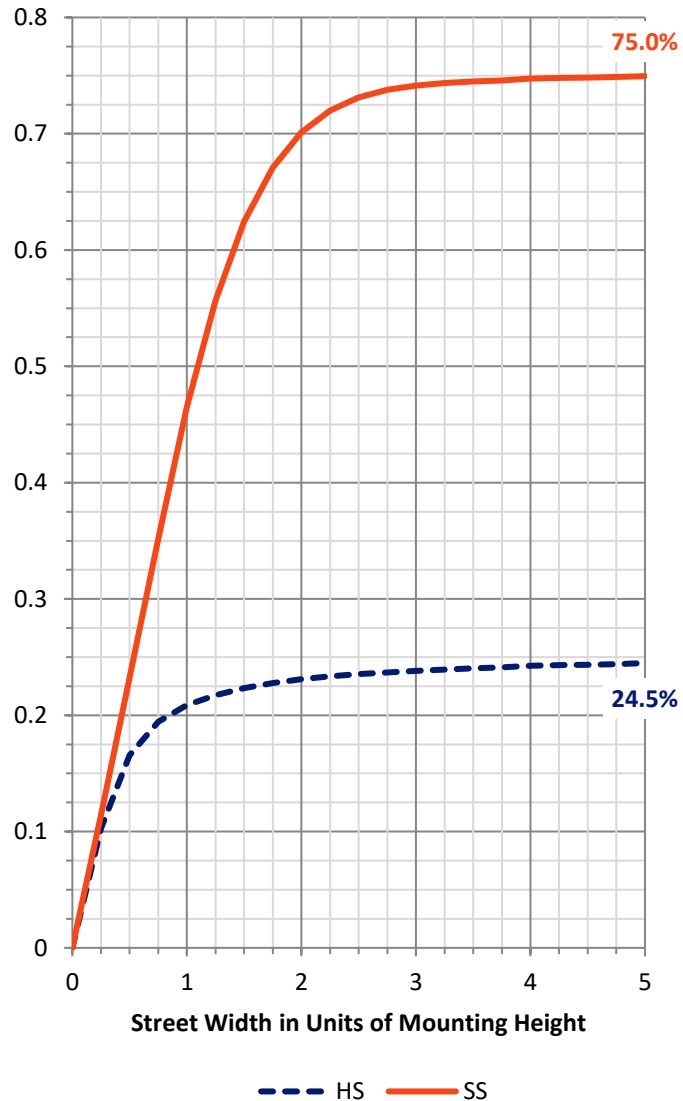
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1332.4	0.0	1332.4
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	4026.3	0.0	4026.3
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	5358.7	0.0	5358.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	1.1
10°-20°	194.7	3.6
20°-30°	375.3	7.0
30°-40°	658.0	12.3
40°-50°	978.2	18.3
50°-60°	1239.9	23.1
60°-70°	1213.2	22.6
70°-80°	578.7	10.8
80°-90°	61.9	1.2
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°	5358.7	100.0
0°-180°	5358.7	100.0

**Coefficient of Utilization**



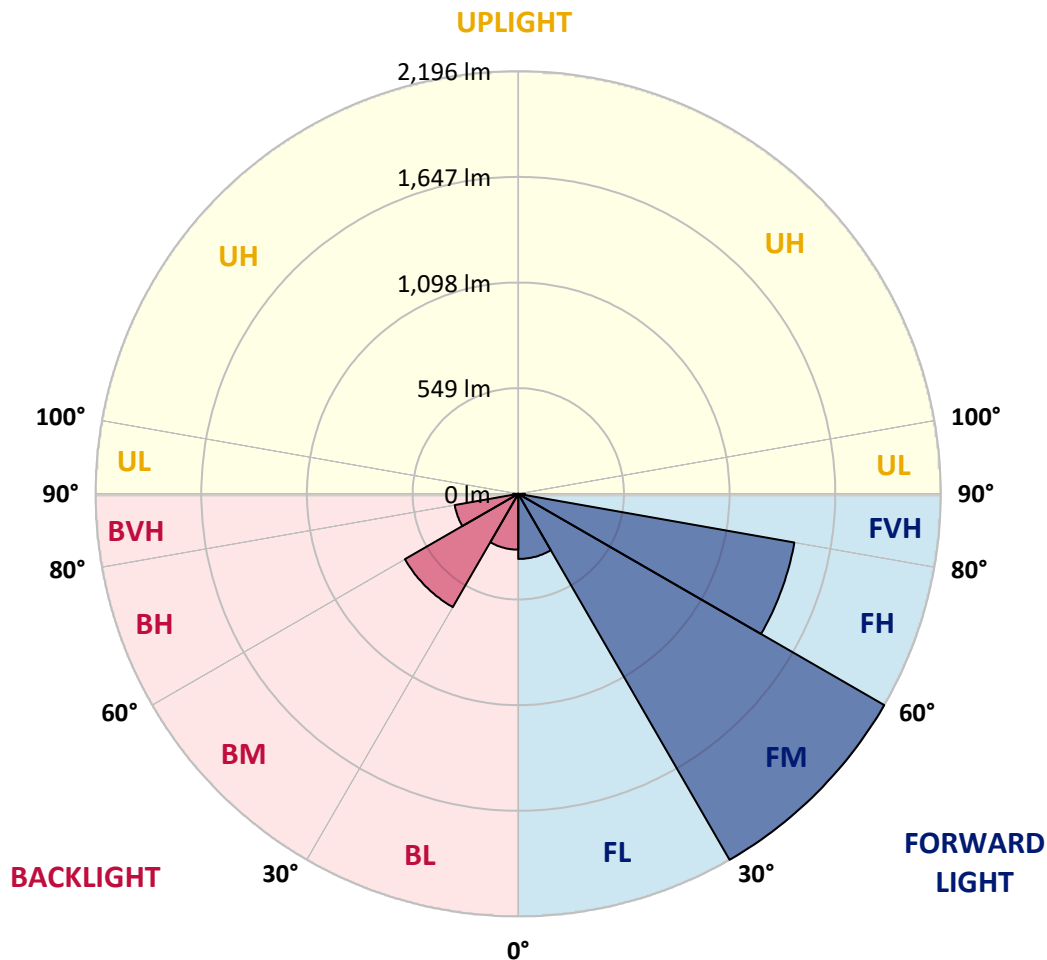
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.6	6.3			
FM (30°-60°)	2195.9	41.0			
FH (60°-80°)	1456.6	27.2			G1/1800
FVH (80°-90°)	35.1	0.7			G1/100
BL (0°-30°)	290.3	5.4	B1/500		
BM (30°-60°)	680.1	12.7	B1/1000		
BH (60°-80°)	335.3	6.3	B1/500		G1/500
BVH (80°-90°)	26.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	588.1	591.5	590.7	589.3	589.0	589.6	590.4	591.2	591.0	592.3	594.6
5°	586.5	589.9	589.6	589.6	590.7	593.0	594.4	595.7	594.4	596.0	599.1
7.5°	587.6	590.1	591.2	592.3	595.2	599.4	602.8	605.9	604.2	606.2	610.1
10°	602.0	603.9	605.1	605.1	607.0	611.8	615.2	620.8	619.4	622.5	627.6
12.5°	628.1	630.1	630.1	628.9	630.4	633.4	634.6	640.8	638.3	643.3	648.4
15°	660.2	664.2	661.1	659.1	659.7	662.8	662.5	667.3	664.7	668.9	673.4
17.5°	695.7	700.8	695.7	695.5	694.3	697.7	697.9	702.2	697.7	700.8	703.9
20°	737.7	744.7	740.5	741.9	739.3	740.8	742.2	748.4	741.3	743.5	742.7
22.5°	796.8	805.2	800.7	806.1	804.4	803.3	803.0	814.0	803.0	803.8	795.7
25°	882.9	893.1	885.2	892.5	892.5	896.2	900.4	914.5	896.2	890.8	869.7
27.5°	1010.2	1020.3	1004.8	1009.3	1008.0	1017.0	1012.5	1047.3	1027.7	1019.0	976.4
30°	1163.4	1181.4	1152.1	1151.0	1149.5	1163.9	1170.4	1193.5	1173.5	1164.8	1113.6
32.5°	1328.9	1347.8	1312.8	1302.8	1297.3	1306.2	1300.7	1319.4	1305.5	1292.0	1228.7
35°	1504.1	1522.6	1489.4	1469.6	1448.3	1430.0	1410.8	1415.6	1402.7	1382.1	1316.5
37.5°	1669.6	1703.7	1668.5	1647.4	1607.9	1572.1	1518.6	1496.4	1484.3	1465.4	1399.3
40°	1838.2	1857.7	1831.0	1812.9	1770.1	1714.1	1628.5	1581.5	1565.2	1546.8	1490.8
42.5°	1962.4	1981.0	1966.7	1954.3	1920.7	1855.7	1745.1	1686.2	1662.6	1641.9	1594.4
45°	2061.0	2074.7	2065.7	2070.2	2055.8	1992.8	1865.8	1798.6	1774.1	1749.0	1711.5
47.5°	2100.6	2115.3	2129.6	2156.4	2180.9	2134.5	1995.6	1920.1	1894.3	1868.7	1831.8
50°	2096.1	2111.1	2152.7	2209.6	2285.6	2270.2	2132.4	2049.7	2025.7	1996.5	1962.4
52.5°	2060.1	2077.0	2130.5	2225.1	2346.1	2371.7	2271.8	2183.5	2160.9	2126.0	2091.9
55°	1965.5	1975.6	2055.8	2189.9	2360.5	2442.7	2408.3	2325.9	2303.4	2254.7	2217.5
57.5°	1790.1	1804.7	1921.6	2095.0	2324.5	2490.9	2528.3	2475.7	2454.0	2383.8	2345.0
60°	1561.2	1584.5	1718.3	1935.6	2232.7	2490.5	2637.2	2622.9	2604.9	2511.1	2470.6
62.5°	1302.2	1329.2	1457.9	1710.4	2072.2	2419.9	2705.4	2746.3	2737.0	2628.5	2576.7
65°	1000.1	1018.6	1146.8	1419.0	1822.4	2268.1	2713.3	2830.4	2832.1	2717.8	2632.2
67.5°	665.8	719.3	830.6	1064.8	1488.0	2020.1	2644.0	2844.2	2860.6	2748.4	2604.3
70°	324.9	395.3	504.3	692.1	1064.8	1639.7	2463.0	2731.0	2767.4	2659.0	2438.2
72.5°	134.9	157.6	217.1	341.5	611.2	1106.5	2099.2	2424.1	2491.5	2356.0	2050.0
75°	90.9	98.5	124.1	175.2	278.5	545.6	1513.9	1807.6	1915.9	1779.4	1454.5
77.5°	70.1	74.9	90.4	122.5	165.5	206.3	810.3	1089.3	1145.3	1060.4	756.8
80°	55.1	58.8	67.5	89.3	117.4	110.4	276.2	493.5	525.9	441.2	243.2
82.5°	47.9	49.3	48.4	60.6	78.0	64.5	90.6	182.1	201.0	145.9	79.4
85°	34.6	38.5	40.3	37.4	41.4	32.7	37.2	64.5	70.9	63.3	44.8
87.5°	14.0	20.8	25.6	24.2	15.2	9.3	11.6	18.9	21.7	23.7	14.7
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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	594.9	596.9	598.3	599.9	601.1	602.8	606.2	608.1	608.4	609.9	609.6
5°	600.2	603.1	606.2	610.7	615.7	620.0	626.5	631.0	632.6	634.1	633.8
7.5°	611.8	615.7	621.4	629.2	636.6	642.3	650.1	655.5	660.8	662.8	663.1
10°	628.9	634.6	642.8	653.4	661.3	668.7	676.8	681.3	686.7	688.9	690.0
12.5°	650.4	656.3	667.0	681.9	689.2	694.3	697.1	696.0	697.1	699.0	699.7
15°	674.9	681.3	693.4	709.5	714.5	710.0	703.9	698.2	697.4	697.9	700.0
17.5°	703.9	708.7	722.7	736.3	732.6	714.0	700.5	691.5	687.0	685.6	687.6
20°	744.5	744.5	755.9	764.4	739.9	708.4	687.3	672.6	663.4	659.4	658.6
22.5°	793.7	789.1	796.5	790.6	738.5	692.6	663.4	638.0	623.9	618.3	617.5
25°	856.2	850.9	848.9	812.3	728.4	667.6	620.0	589.3	576.9	573.8	574.4
27.5°	950.5	937.0	911.3	824.1	709.8	628.1	569.3	540.9	533.8	534.1	534.9
30°	1076.0	1049.1	986.3	826.0	679.4	572.4	517.5	497.2	493.8	495.3	500.0
32.5°	1192.4	1166.8	1062.8	817.0	632.6	517.7	471.0	457.6	452.4	454.2	456.4
35°	1283.6	1276.5	1133.8	804.4	575.2	466.5	429.4	417.8	408.0	405.7	407.4
37.5°	1369.7	1366.9	1187.1	786.7	518.3	430.2	395.9	380.7	366.3	358.4	358.6
40°	1464.3	1461.5	1221.9	759.3	467.9	398.7	365.7	345.7	328.0	313.6	315.1
42.5°	1570.8	1554.1	1238.5	720.2	425.2	372.0	341.2	314.2	290.8	277.6	278.5
45°	1687.0	1649.6	1238.3	670.3	389.1	347.5	315.1	276.8	255.1	242.7	242.1
47.5°	1810.4	1740.9	1223.0	615.2	354.2	320.4	274.5	245.2	230.8	223.2	221.6
50°	1937.7	1826.1	1197.1	551.9	318.5	289.7	249.2	229.2	218.2	211.2	208.6
52.5°	2057.3	1903.5	1165.9	480.0	282.1	259.8	237.9	222.4	210.8	203.0	199.6
55°	2168.5	1970.3	1121.7	406.5	252.6	239.8	232.6	219.7	206.3	197.1	193.4
57.5°	2267.3	2013.6	1045.4	337.5	231.4	226.1	226.9	214.8	199.6	191.8	186.7
60°	2349.5	2045.5	932.4	273.7	214.2	212.6	218.2	205.8	188.1	179.1	175.2
62.5°	2398.8	2044.9	794.0	224.1	199.6	200.2	206.6	194.5	176.5	168.1	165.5
65°	2394.6	1994.8	642.0	191.8	185.5	186.1	194.5	182.1	167.0	161.8	161.6
67.5°	2309.8	1872.6	492.4	170.7	170.0	172.6	182.4	173.7	161.0	160.5	161.3
70°	2080.3	1618.9	354.8	153.8	154.1	157.6	170.7	168.4	158.0	159.1	158.8
72.5°	1668.2	1234.3	238.2	136.0	136.2	142.2	159.4	164.1	154.9	169.7	172.0
75°	1111.0	769.8	153.1	117.2	117.4	125.0	149.5	156.0	146.4	169.2	170.7
77.5°	533.8	346.0	110.9	98.5	98.5	105.6	129.3	139.6	124.7	131.5	120.5
80°	184.4	130.1	87.3	79.4	77.7	82.5	109.0	121.1	107.5	99.1	92.9
82.5°	72.7	67.5	70.1	61.7	56.1	59.1	84.8	99.9	79.1	71.5	71.2
85°	41.7	44.0	49.5	40.8	32.4	36.3	62.2	71.8	59.7	52.7	53.8
87.5°	11.3	15.5	22.8	21.1	14.7	15.5	29.5	39.7	34.3	26.4	27.3
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)