

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: P959766

Luminaire Tested: **NAV-SB1B-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-727-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5427.4 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

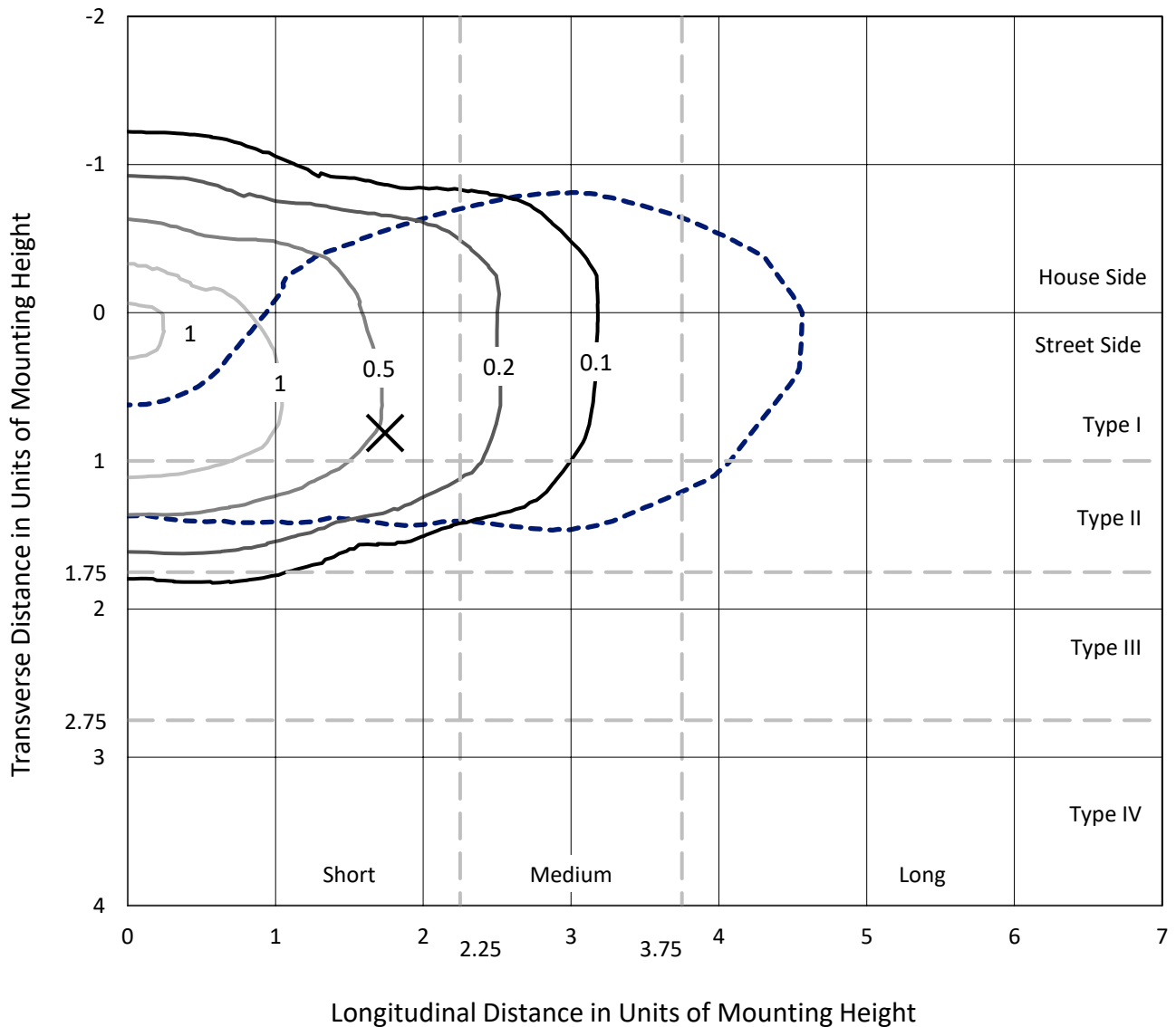
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

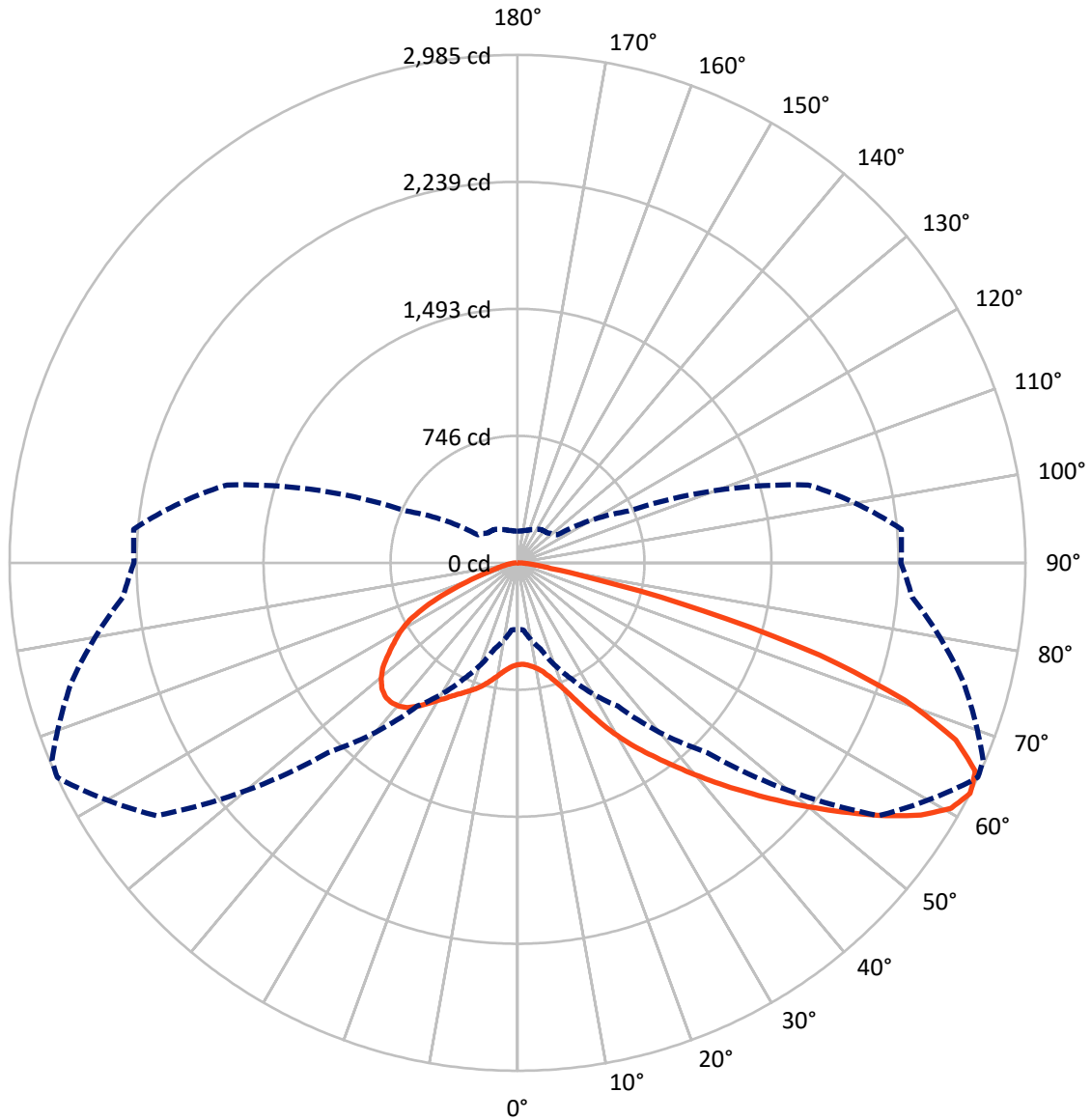
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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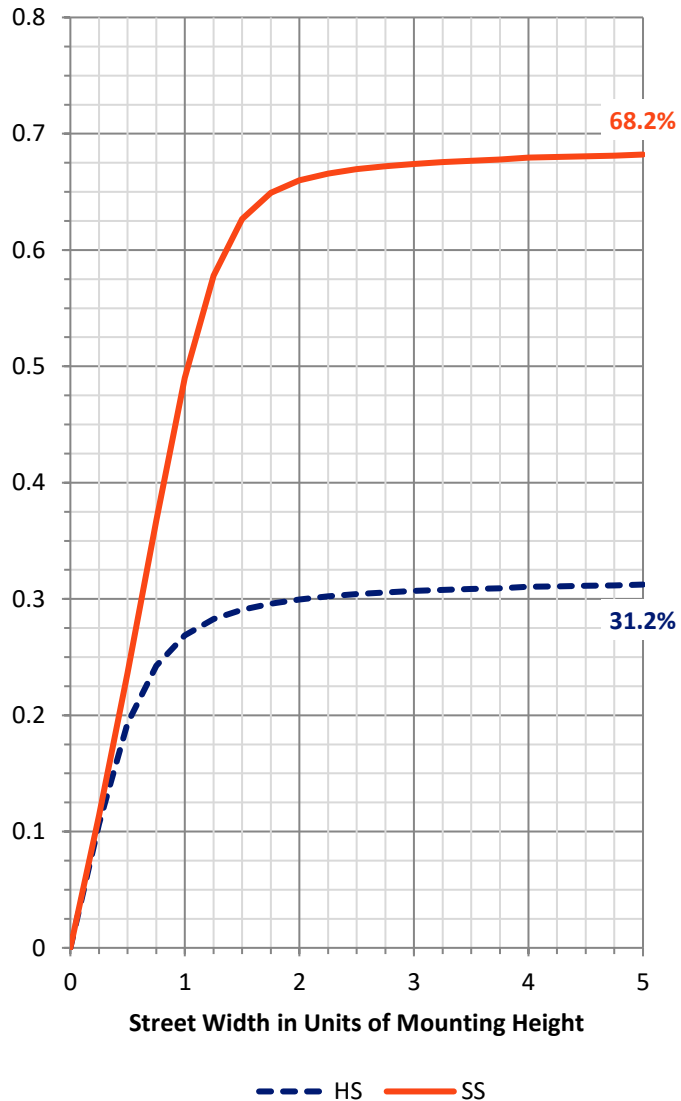
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1712.6	0.0	1712.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3714.7	0.0	3714.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	5427.4	0.0	5427.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	1.1
10°-20°	202.2	3.7
20°-30°	410.0	7.6
30°-40°	709.5	13.1
40°-50°	1073.7	19.8
50°-60°	1258.8	23.2
60°-70°	1055.3	19.4
70°-80°	582.6	10.7
80°-90°	75.7	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°	5427.4	100.0
0°-180°	5427.4	100.0

Coefficient of Utilization

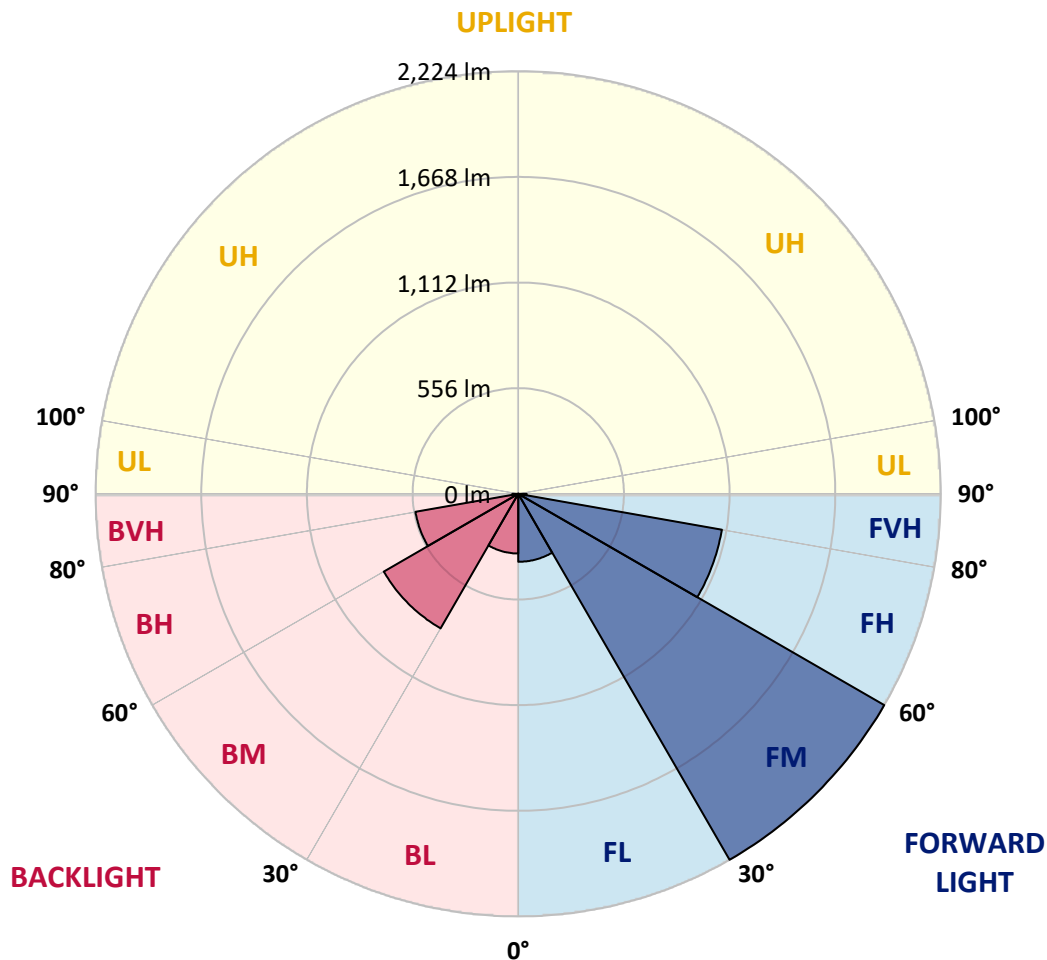


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.7	6.6			
FM (30°-60°)	2224.3	41.0			
FH (60°-80°)	1088.6	20.1			G1/1800
FVH (80°-90°)	44.1	0.8			G1/100
BL (0°-30°)	314.1	5.8	B1/500		
BM (30°-60°)	817.6	15.1	B1/1000		
BH (60°-80°)	549.4	10.1	B2/1000		G2/1000
BVH (80°-90°)	31.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1
2.5°	594.1	592.4	593.9	593.9	594.4	594.1	596.1	596.7	597.5	599.2	599.2
5°	588.2	587.9	590.5	592.8	595.0	597.0	599.5	603.1	603.7	605.7	608.2
7.5°	586.2	584.6	588.5	591.3	596.7	601.5	608.2	614.4	616.9	617.8	622.6
10°	601.5	598.6	602.3	604.0	608.5	613.3	621.2	631.0	633.9	637.2	642.6
12.5°	627.4	624.2	629.7	632.1	636.3	640.6	646.0	655.5	656.9	663.1	668.2
15°	662.9	659.2	662.6	665.6	672.7	676.6	681.9	691.3	691.3	696.1	699.8
17.5°	710.9	706.2	708.7	709.8	714.3	720.3	729.3	737.5	741.7	739.9	734.9
20°	782.8	776.8	776.8	771.2	769.6	774.4	786.2	797.4	802.0	793.2	780.8
22.5°	890.6	882.2	877.4	858.2	850.6	851.3	863.0	876.8	880.5	865.0	837.1
25°	1027.8	1014.5	1008.1	979.9	962.7	947.8	957.0	974.8	979.9	960.7	915.7
27.5°	1164.9	1165.7	1159.6	1125.8	1097.3	1070.0	1065.2	1083.8	1089.2	1067.4	1011.7
30°	1357.2	1337.2	1325.4	1284.8	1244.2	1206.0	1186.3	1193.9	1195.3	1169.4	1104.6
32.5°	1523.0	1518.0	1492.6	1457.1	1405.1	1345.1	1312.2	1300.0	1297.8	1261.0	1184.1
35°	1712.0	1709.2	1682.4	1640.2	1583.8	1500.5	1441.1	1406.5	1403.6	1351.9	1262.6
37.5°	1904.0	1904.0	1877.8	1831.7	1773.4	1669.2	1578.8	1523.9	1514.8	1447.3	1342.5
40°	2057.2	2048.0	2052.7	2033.3	1966.6	1855.9	1731.7	1652.0	1639.9	1558.8	1427.6
42.5°	2144.2	2141.1	2169.8	2191.6	2164.2	2075.8	1900.0	1790.9	1774.0	1681.6	1525.6
45°	2163.7	2160.3	2211.5	2290.9	2329.2	2292.9	2083.1	1936.9	1916.4	1809.9	1630.7
47.5°	2118.9	2112.1	2187.4	2312.6	2435.4	2499.3	2281.3	2095.5	2065.7	1935.0	1738.5
50°	1984.3	1977.8	2091.6	2258.0	2471.2	2639.5	2496.5	2263.6	2218.0	2069.1	1847.5
52.5°	1691.8	1694.8	1873.1	2101.7	2424.1	2726.8	2681.7	2440.7	2385.8	2206.2	1949.7
55°	1317.7	1324.5	1543.6	1795.4	2236.0	2713.6	2808.2	2623.2	2568.5	2335.2	2055.2
57.5°	943.6	973.4	1178.6	1427.9	1874.7	2503.8	2835.8	2796.6	2743.7	2475.9	2158.5
60°	611.6	616.9	828.1	1079.3	1427.6	2131.0	2779.7	2928.1	2886.7	2619.5	2245.1
62.5°	392.0	395.6	524.3	754.9	1027.5	1576.6	2591.1	2985.3	2972.6	2714.4	2328.1
65°	288.0	285.3	352.3	499.0	692.1	972.3	2224.8	2957.7	2982.7	2773.9	2396.8
67.5°	240.5	236.6	269.5	345.5	509.9	552.2	1646.2	2778.4	2870.1	2767.1	2447.2
70°	219.0	215.7	235.6	256.6	397.9	369.7	829.8	2415.4	2556.8	2690.2	2439.0
72.5°	185.5	179.7	206.9	227.8	309.4	283.5	343.0	1855.4	2027.7	2443.8	2324.2
75°	143.9	139.9	163.3	200.5	232.6	221.3	216.8	1126.6	1314.7	1890.0	2033.3
77.5°	114.1	108.6	130.1	156.3	209.2	167.0	158.0	485.1	671.6	1206.5	1521.4
80°	85.9	81.1	98.8	123.6	160.8	125.9	102.2	197.9	253.2	611.3	765.1
82.5°	61.1	56.9	69.0	90.7	108.1	113.0	62.8	110.9	124.7	235.6	170.9
85°	39.2	36.6	46.2	56.9	68.7	72.7	38.3	58.0	63.7	97.2	71.2
87.5°	21.4	17.4	24.8	26.4	31.8	29.0	18.3	21.1	22.9	35.2	30.1
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°	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1	598.1
2.5°	600.3	601.2	604.0	604.9	606.8	609.4	611.0	612.7	612.7	614.4	614.4
5°	608.5	610.5	616.3	619.5	624.5	629.7	632.7	636.3	638.6	639.7	640.3
7.5°	624.2	627.4	635.8	641.1	649.8	656.9	661.7	666.8	667.9	671.0	669.8
10°	645.6	649.3	658.9	669.0	679.5	688.2	692.7	696.4	697.7	698.3	696.9
12.5°	670.1	675.5	687.9	700.3	711.2	718.8	720.0	719.1	715.2	711.9	711.9
15°	700.3	705.1	718.8	732.4	743.1	744.5	737.5	733.0	728.2	727.3	727.3
17.5°	736.4	738.8	751.5	764.8	765.6	760.9	750.4	746.2	741.7	738.6	738.8
20°	778.3	777.5	786.5	792.1	786.2	771.5	755.7	748.8	744.3	740.6	740.9
22.5°	828.4	821.9	820.8	819.4	803.6	773.0	751.5	742.5	735.4	730.4	732.1
25°	901.3	876.6	859.4	849.8	814.4	765.4	738.0	718.0	704.8	696.1	699.5
27.5°	992.6	950.9	907.5	884.2	814.4	749.9	705.4	673.0	651.3	642.3	646.8
30°	1079.5	1036.0	972.0	925.6	812.3	724.5	652.7	607.6	582.3	573.3	578.6
32.5°	1153.9	1106.3	1040.5	970.9	807.6	683.4	587.3	537.5	513.0	502.4	507.7
35°	1222.9	1172.2	1109.2	1020.7	794.9	623.1	515.6	477.5	450.3	433.1	438.7
37.5°	1293.6	1233.3	1174.1	1065.8	772.1	552.8	460.4	428.0	395.9	372.8	379.0
40°	1370.4	1298.4	1243.7	1092.5	734.6	485.7	417.6	388.1	353.9	329.4	334.3
42.5°	1460.3	1376.4	1321.1	1106.3	683.4	438.2	389.7	360.7	328.6	308.6	312.5
45°	1554.0	1462.3	1391.8	1106.1	626.3	415.8	380.7	352.0	316.5	295.6	299.0
47.5°	1652.3	1552.1	1452.9	1088.0	576.7	419.0	375.7	333.1	294.0	273.7	276.5
50°	1750.9	1650.4	1512.1	1054.2	555.6	412.3	356.8	306.7	260.5	242.2	243.3
52.5°	1848.6	1754.8	1563.0	1006.0	534.1	387.1	332.5	272.2	246.6	234.0	234.0
55°	1946.9	1858.1	1618.5	935.9	480.6	357.9	292.0	259.3	235.6	224.2	223.0
57.5°	2045.4	1977.5	1671.2	865.8	413.4	321.8	269.8	243.5	224.7	214.8	213.2
60°	2147.9	2114.1	1725.5	801.3	346.9	275.6	253.4	230.9	211.8	200.8	199.9
62.5°	2253.5	2264.4	1768.0	718.3	285.8	247.5	238.8	215.7	197.1	186.7	186.4
65°	2360.0	2409.5	1795.9	603.1	231.8	220.8	223.0	199.1	180.2	171.2	170.9
67.5°	2440.1	2513.9	1788.0	456.4	190.0	195.4	203.3	181.6	163.9	156.8	157.1
70°	2449.1	2501.5	1710.3	312.5	159.1	170.7	181.3	164.4	146.2	141.0	141.3
72.5°	2329.2	2332.6	1493.7	204.2	134.6	149.8	158.3	147.0	129.3	124.1	123.9
75°	2014.7	1929.0	1096.8	134.6	112.6	128.6	136.5	128.6	111.5	112.6	108.6
77.5°	1526.4	1366.2	665.9	95.7	94.1	108.1	118.8	113.2	98.5	110.7	97.4
80°	786.5	739.1	297.0	71.5	74.3	86.4	97.7	90.4	78.0	74.3	67.9
82.5°	180.2	209.5	117.2	51.2	53.8	62.2	74.6	67.9	56.1	47.4	46.7
85°	63.0	69.0	51.8	32.1	31.6	38.8	50.6	45.3	38.0	30.4	32.1
87.5°	20.0	26.1	19.5	12.9	13.5	17.4	23.4	21.4	17.7	11.6	12.1
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)