

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: P961971

Luminaire Tested: **NAV-SB2B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961971
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-SB2B-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

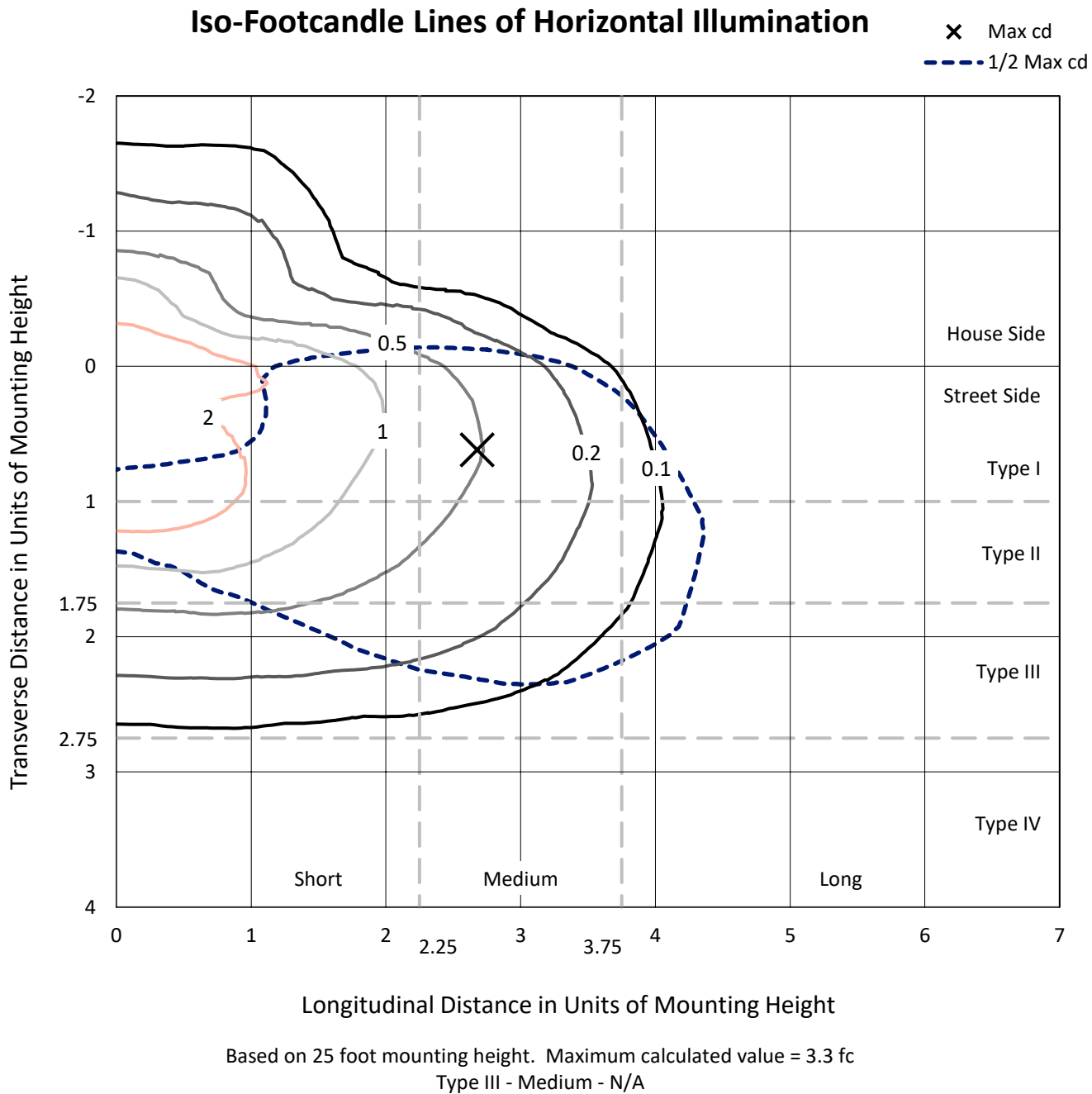
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12536.8 lumens
Efficiency: N/A
Efficacy: 169.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.9
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

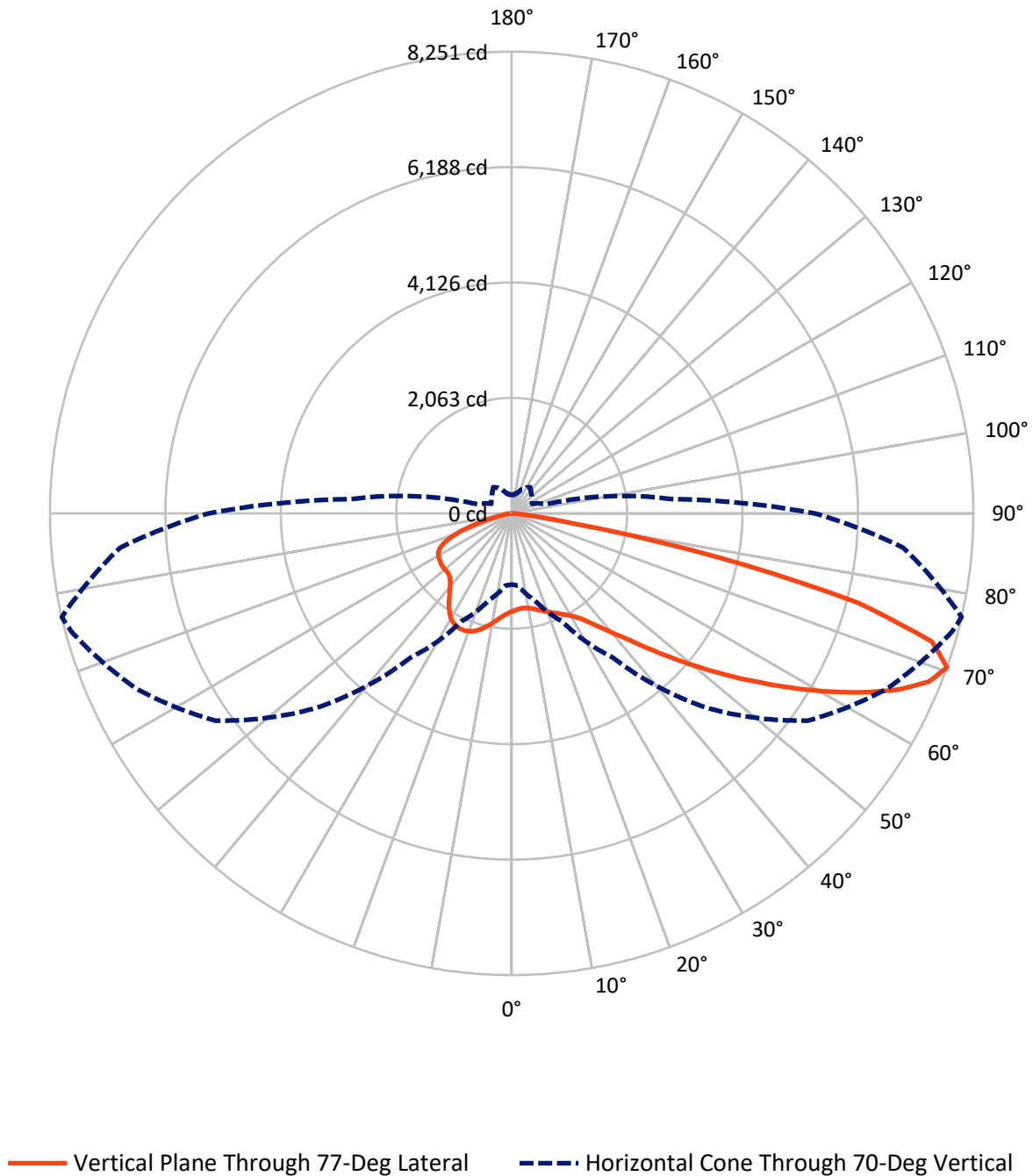


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2745.4	0.0	2745.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9791.4	0.0	9791.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	12536.8	0.0	12536.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.3
10°-20°	481.4	3.8
20°-30°	823.3	6.6
30°-40°	1323.9	10.6
40°-50°	2067.0	16.5
50°-60°	2761.1	22.0
60°-70°	2942.9	23.5
70°-80°	1811.6	14.5
80°-90°	158.7	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°	12536.8	100.0
0°-180°	12536.8	100.0

Coefficient of Utilization



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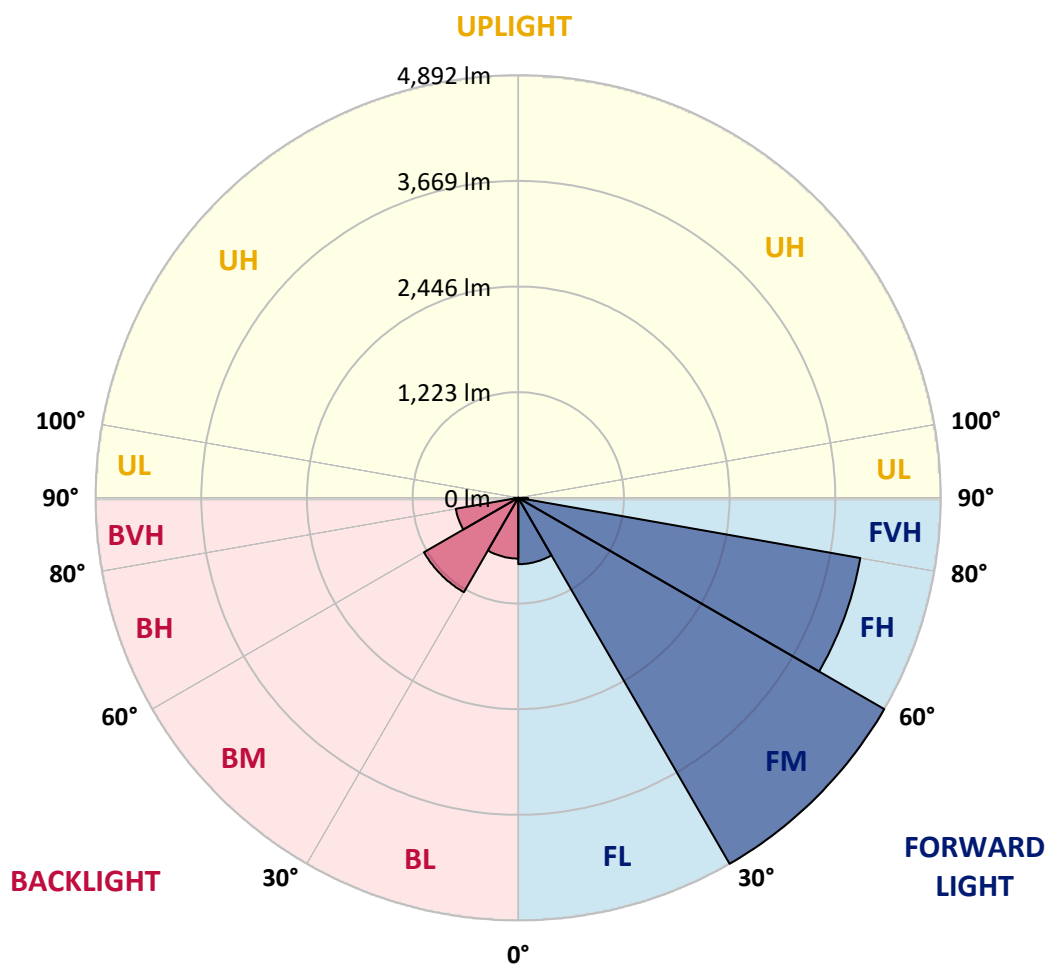
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.1	6.1			
FM	(30°-60°)	4891.6	39.0			
FH	(60°-80°)	4020.7	32.1			G2/5000
FVH	(80°-90°)	111.0	0.9			G2/225
BL	(0°-30°)	703.4	5.6	B2/1000		
BM	(30°-60°)	1260.5	10.1	B2/2500		
BH	(60°-80°)	733.7	5.9	B2/1000		G2/1000
BVH	(80°-90°)	47.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0
2.5°	1612.2	1611.6	1619.9	1622.5	1637.9	1648.8	1669.4	1691.2	1719.4	1722.7	1740.0
5°	1519.2	1519.2	1528.8	1539.0	1558.9	1580.8	1612.2	1650.1	1698.9	1706.6	1749.7
7.5°	1440.1	1445.2	1453.7	1473.5	1496.7	1528.2	1576.2	1630.3	1694.4	1706.6	1775.9
10°	1376.6	1382.4	1392.7	1408.7	1443.4	1487.1	1549.9	1619.3	1705.3	1724.6	1814.5
12.5°	1356.7	1362.4	1368.3	1380.5	1412.6	1463.9	1539.0	1624.4	1731.6	1750.9	1867.1
15°	1402.9	1410.0	1405.5	1402.3	1419.0	1465.9	1544.2	1643.1	1764.4	1792.0	1932.0
17.5°	1509.5	1512.1	1501.8	1471.6	1469.0	1494.1	1568.6	1668.7	1805.5	1835.7	1997.5
20°	1681.6	1677.1	1655.9	1596.2	1562.2	1557.0	1610.3	1707.2	1847.9	1880.0	2068.1
22.5°	1915.3	1910.2	1867.8	1773.4	1697.6	1647.6	1670.6	1757.4	1895.4	1931.3	2136.8
25°	2206.8	2199.8	2137.4	2009.0	1891.5	1767.6	1752.9	1823.5	1953.9	1987.2	2208.7
27.5°	2547.1	2541.3	2473.9	2304.4	2134.9	1932.0	1854.9	1901.2	2014.8	2052.7	2289.6
30°	2913.0	2929.8	2810.3	2628.0	2413.6	2146.5	1992.3	1996.8	2093.8	2127.8	2387.8
32.5°	3343.2	3372.1	3228.3	2997.2	2704.4	2379.5	2165.7	2130.4	2208.7	2237.0	2511.8
35°	3769.5	3802.3	3682.9	3427.4	3090.3	2654.3	2346.7	2283.8	2361.5	2392.4	2676.2
37.5°	4138.1	4181.8	4120.2	3898.0	3503.1	2985.6	2583.0	2464.3	2549.7	2588.2	2897.1
40°	4429.0	4495.8	4491.2	4352.6	3989.8	3387.5	2882.9	2687.0	2783.4	2825.1	3164.8
42.5°	4665.3	4723.1	4773.1	4766.0	4497.7	3844.1	3235.4	2976.6	3049.8	3098.0	3465.9
45°	4828.4	4890.0	4997.9	5114.0	4986.3	4332.7	3639.3	3320.2	3386.9	3459.5	3824.8
47.5°	4974.1	5044.1	5184.0	5368.3	5401.0	4823.2	4081.7	3720.1	3781.1	3856.3	4185.0
50°	4986.9	5047.3	5264.3	5525.7	5695.8	5294.5	4556.7	4169.0	4226.1	4306.3	4570.9
52.5°	4676.9	4771.9	5150.6	5521.2	5831.2	5688.7	5028.6	4635.8	4699.9	4796.3	4970.2
55°	3630.2	3769.5	4817.4	5349.1	5783.2	5943.7	5477.5	5132.1	5214.3	5315.0	5372.2
57.5°	3126.9	3187.9	3824.2	5035.7	5563.5	6009.8	5856.3	5633.5	5765.7	5876.2	5797.2
60°	2810.3	2861.1	3237.4	4548.4	5274.5	5905.1	6149.1	6100.9	6329.5	6461.1	6231.9
62.5°	2471.3	2519.4	2861.7	3797.8	4904.7	5731.1	6334.0	6532.4	6907.4	7051.2	6641.6
65°	2134.9	2176.0	2504.1	3191.0	4434.8	5557.1	6429.7	6905.4	7442.2	7591.2	6981.9
67.5°	1759.9	1794.0	2104.0	2692.2	3863.3	5318.9	6477.2	7198.9	7907.7	8035.5	7150.1
70°	1270.0	1296.3	1616.7	2129.1	3146.1	4909.2	6457.9	7406.9	8149.2	8251.2	7023.0
72.5°	600.3	624.1	1000.3	1382.4	2222.2	4111.8	6068.2	7241.9	7903.9	7853.1	6244.7
75°	320.4	340.9	574.6	758.3	1173.7	2818.6	4965.7	6238.4	6637.1	6390.5	4615.2
77.5°	217.0	233.1	355.7	455.2	536.2	1338.0	3191.7	4319.1	4155.5	3748.4	2311.5
80°	172.1	188.8	291.5	308.2	259.4	483.5	1318.8	1999.4	1436.3	1148.6	657.4
82.5°	132.2	150.9	245.3	223.4	141.2	198.4	384.0	632.4	367.9	279.9	159.2
85°	80.9	100.8	192.6	142.6	79.6	90.5	130.4	175.9	112.3	93.8	57.2
87.5°	41.1	57.8	97.6	52.0	36.0	21.2	34.6	34.6	29.5	25.7	14.8
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°	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0	1749.0
2.5°	1755.4	1768.2	1790.1	1810.7	1826.7	1842.1	1857.5	1865.8	1868.4	1878.7	1884.5
5°	1775.9	1799.7	1842.1	1881.9	1906.9	1922.4	1933.3	1939.7	1940.9	1944.2	1949.3
7.5°	1813.8	1851.8	1910.8	1950.6	1969.2	1967.9	1963.5	1947.4	1940.9	1935.2	1936.4
10°	1867.1	1917.3	1989.7	2017.4	2005.8	1975.0	1935.2	1888.4	1866.5	1845.3	1838.8
12.5°	1933.3	1996.8	2068.1	2066.8	2009.7	1930.7	1838.2	1766.3	1720.8	1688.0	1680.3
15°	2013.5	2086.7	2141.3	2097.7	1972.4	1830.5	1695.0	1601.4	1560.3	1524.3	1520.4
17.5°	2096.3	2174.6	2199.8	2088.0	1878.7	1682.2	1528.8	1454.9	1414.5	1395.2	1401.0
20°	2177.3	2254.9	2234.4	2032.8	1736.1	1514.0	1377.2	1336.8	1328.4	1332.9	1331.0
22.5°	2262.7	2332.0	2241.5	1926.2	1554.4	1341.9	1266.8	1268.1	1286.7	1300.2	1303.4
25°	2350.0	2396.9	2222.8	1772.1	1359.3	1215.4	1196.8	1217.4	1254.0	1280.3	1287.3
27.5°	2434.1	2454.7	2182.4	1581.4	1191.7	1124.9	1128.1	1170.4	1225.7	1262.3	1271.3
30°	2529.1	2506.0	2104.7	1366.9	1075.4	1047.2	1074.2	1123.6	1178.9	1211.6	1219.2
32.5°	2636.3	2550.3	1981.4	1168.6	993.3	984.9	1029.2	1061.4	1085.8	1095.4	1100.5
35°	2769.9	2612.6	1823.5	1029.2	919.4	939.3	981.7	965.7	956.0	950.9	956.0
37.5°	2943.3	2696.7	1638.6	938.7	859.8	906.6	923.9	873.8	836.0	817.3	821.8
40°	3151.9	2820.0	1460.7	868.7	821.8	878.3	848.2	787.8	739.6	713.3	715.2
42.5°	3383.7	2949.0	1311.1	816.1	800.6	855.3	792.3	720.4	642.7	634.4	642.7
45°	3627.1	3082.0	1209.0	775.6	790.4	835.4	760.2	644.0	588.8	622.8	640.8
47.5°	3870.4	3203.9	1147.4	745.5	785.3	812.8	732.0	601.6	562.4	611.9	635.0
50°	4141.3	3313.1	1119.8	723.6	779.5	803.9	689.6	590.7	534.8	567.5	591.9
52.5°	4410.4	3397.9	1099.2	701.8	771.1	796.8	669.0	577.9	501.4	503.4	516.9
55°	4678.7	3453.0	1076.8	672.9	752.6	781.4	667.1	563.8	476.4	467.4	473.9
57.5°	4965.1	3484.5	1049.2	640.8	720.4	742.2	665.2	552.8	468.7	454.0	455.8
60°	5256.6	3530.7	1013.2	601.6	677.4	695.4	660.7	549.0	464.2	439.2	441.1
62.5°	5518.0	3546.8	970.2	564.4	622.2	649.1	651.1	545.7	452.0	409.0	409.0
65°	5689.4	3477.4	895.0	522.0	562.4	601.6	632.4	534.8	430.2	387.1	387.1
67.5°	5682.3	3279.7	777.6	467.4	504.7	549.0	605.5	516.2	403.8	360.2	362.1
70°	5417.7	2889.3	628.6	403.8	441.1	492.5	570.8	488.6	372.4	330.7	334.6
72.5°	4646.6	2261.4	456.5	329.3	367.3	434.1	525.8	455.2	340.3	304.3	302.4
75°	3319.5	1431.2	309.4	253.0	285.8	367.9	470.0	416.0	310.8	305.7	288.3
77.5°	1695.7	683.8	204.8	184.9	199.1	290.2	394.8	371.8	315.3	252.4	224.7
80°	551.6	252.4	129.0	125.9	132.2	193.2	305.7	304.9	238.8	171.5	151.5
82.5°	175.9	108.5	84.2	80.9	77.7	121.4	213.2	241.4	161.1	108.5	107.8
85°	70.0	64.9	49.4	45.6	32.7	57.2	111.7	160.5	120.0	78.3	80.3
87.5°	25.7	25.7	13.5	9.6	7.1	19.3	30.1	48.2	68.7	40.5	39.8
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)