

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: P962092

Luminaire Tested: **NAV-SB2B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

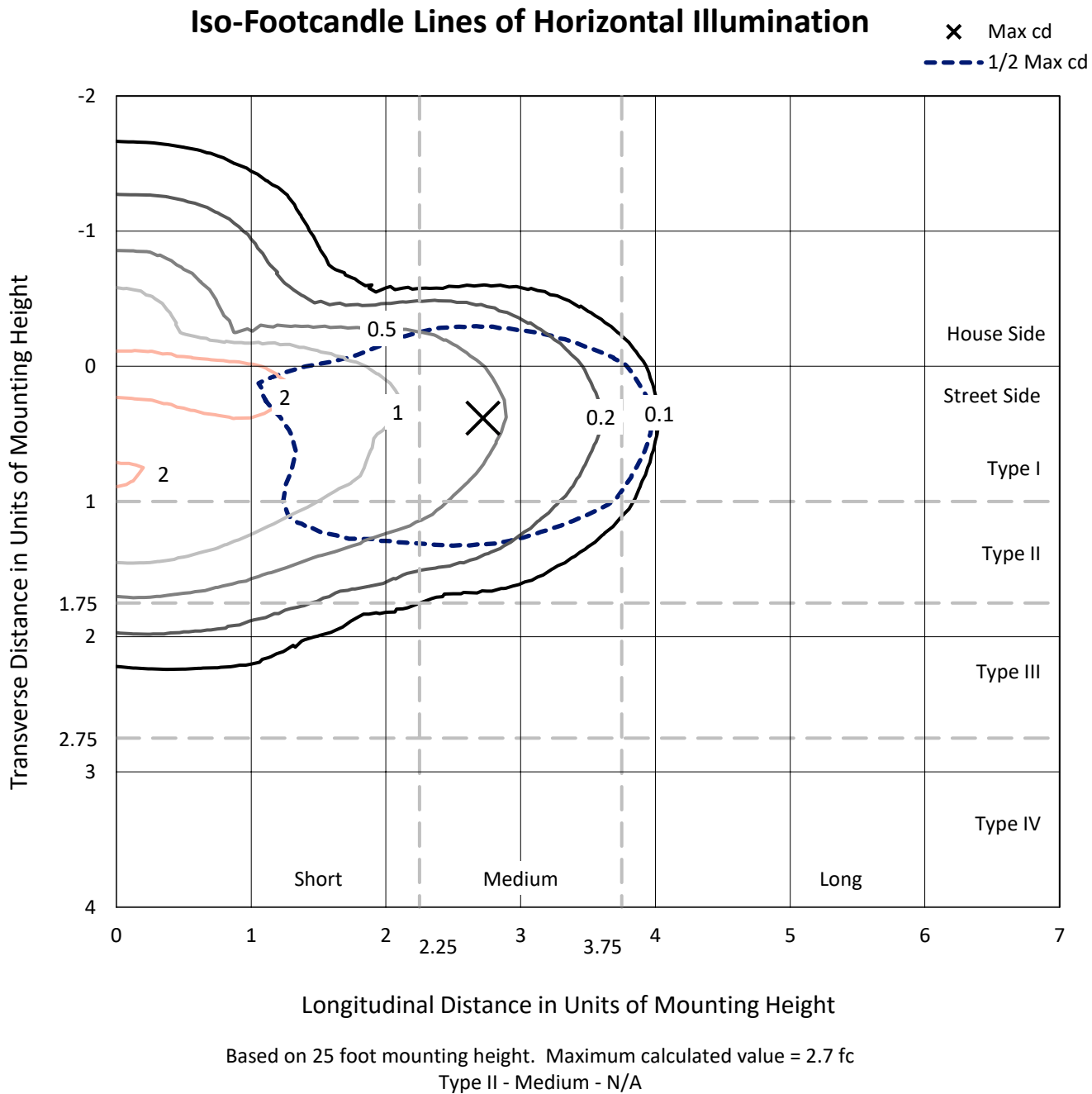
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10276.6 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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

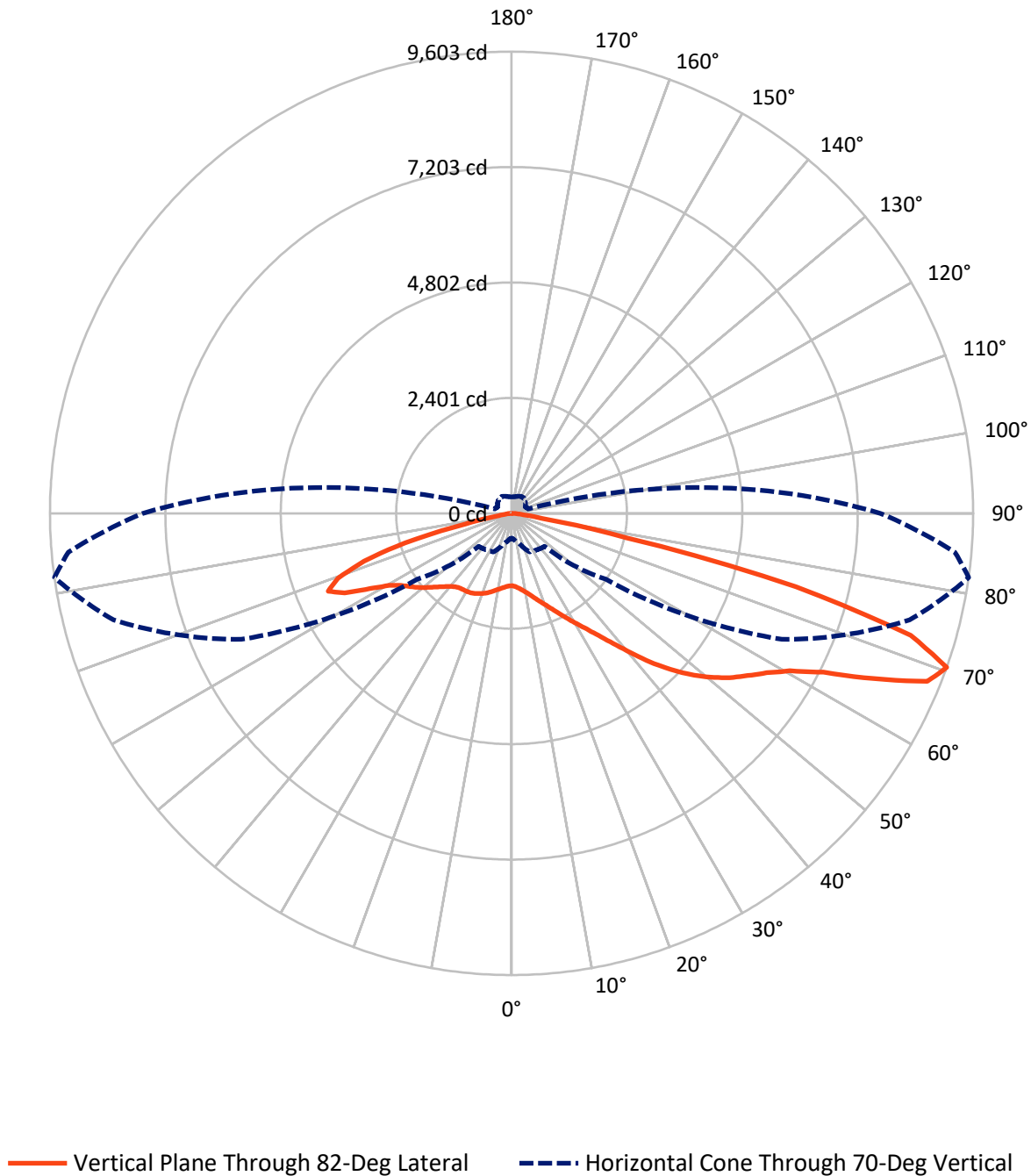


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2533.4	0.0	2533.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7743.2	0.0	7743.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	10276.6	0.0	10276.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.4
10°-20°	408.7	4.0
20°-30°	683.7	6.7
30°-40°	1068.2	10.4
40°-50°	1701.2	16.6
50°-60°	2367.4	23.0
60°-70°	2476.4	24.1
70°-80°	1294.3	12.6
80°-90°	134.4	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°	10276.6	100.0
0°-180°	10276.6	100.0

Coefficient of Utilization



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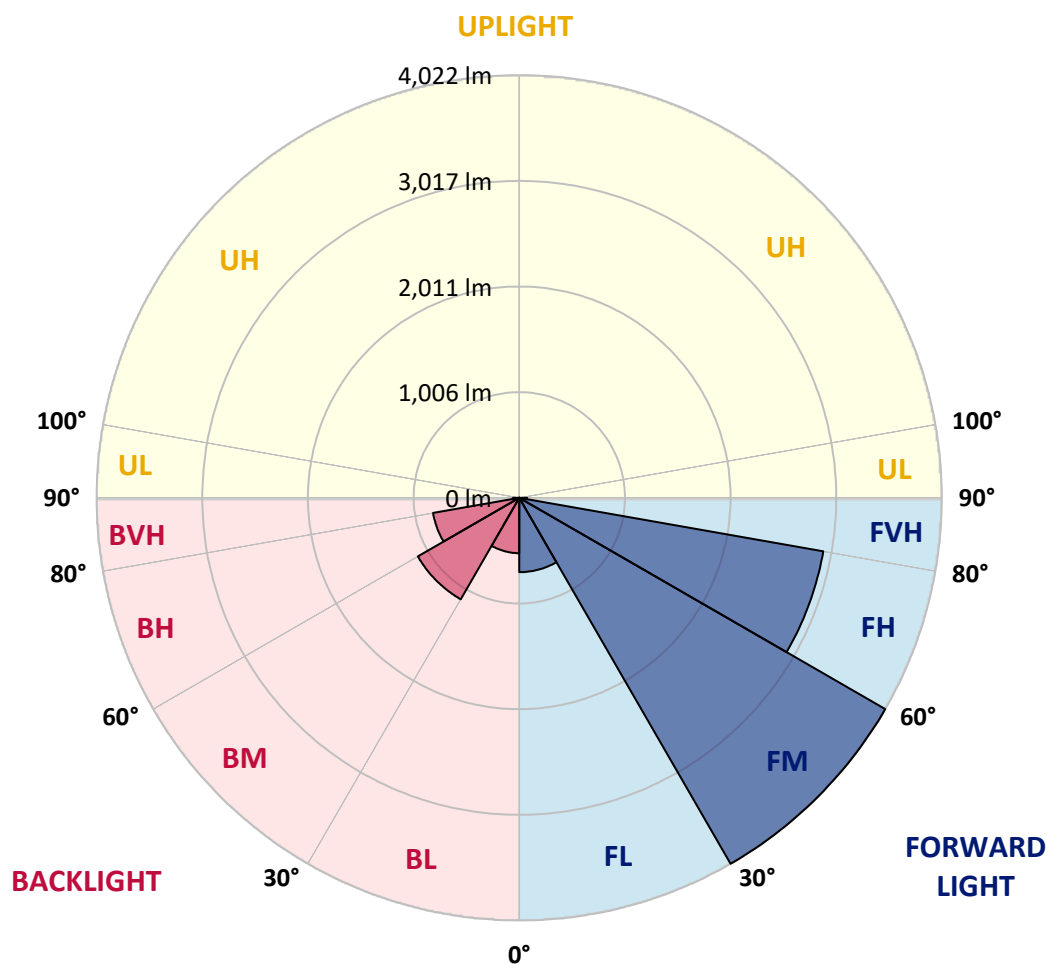
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.7	6.9			
FM	(30°-60°)	4022.2	39.1			
FH	(60°-80°)	2938.1	28.6			G2/5000
FVH	(80°-90°)	75.2	0.7			G1/100
BL	(0°-30°)	527.0	5.1	B2/1000		
BM	(30°-60°)	1114.6	10.8	B2/2500		
BH	(60°-80°)	832.6	8.1	B2/1000		G2/1000
BVH	(80°-90°)	59.2	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1542.6	1551.4	1548.7	1545.9	1545.9	1542.1	1541.6	1536.2	1531.8	1524.7	1523.0
5°	1562.3	1571.5	1570.5	1572.7	1579.7	1581.4	1583.0	1579.7	1571.0	1562.3	1558.5
7.5°	1544.9	1555.2	1558.5	1571.5	1593.4	1613.0	1627.7	1633.7	1625.5	1613.0	1607.0
10°	1485.9	1497.4	1508.9	1540.0	1578.7	1625.0	1664.3	1687.8	1686.1	1674.1	1663.8
12.5°	1366.5	1378.5	1403.1	1463.6	1534.5	1616.3	1689.4	1738.4	1755.3	1746.6	1728.7
15°	1271.1	1281.5	1300.0	1362.2	1454.4	1578.7	1698.6	1794.1	1837.1	1832.2	1810.5
17.5°	1268.3	1272.7	1284.2	1313.6	1384.6	1519.8	1688.8	1848.6	1930.9	1930.4	1903.1
20°	1316.4	1318.0	1324.5	1330.6	1370.9	1475.1	1663.8	1893.9	2036.2	2036.2	2006.7
22.5°	1382.9	1381.8	1388.4	1382.9	1402.5	1471.3	1647.9	1933.7	2153.4	2162.1	2125.0
25°	1482.7	1477.2	1475.6	1463.1	1466.9	1506.6	1665.4	1979.0	2292.5	2310.5	2264.1
27.5°	1615.7	1607.0	1601.0	1572.1	1562.3	1579.7	1718.8	2033.5	2447.4	2478.4	2419.5
30°	1789.1	1773.4	1764.6	1714.4	1679.1	1681.7	1799.5	2106.0	2609.3	2659.5	2584.7
32.5°	2025.8	2001.3	1977.8	1895.5	1830.5	1809.3	1903.6	2206.3	2784.9	2865.1	2769.0
35°	2290.9	2271.2	2246.1	2119.1	2019.2	1970.2	2044.4	2346.4	2990.4	3117.5	2992.7
37.5°	2546.0	2529.2	2541.2	2369.9	2241.3	2169.8	2228.7	2534.6	3244.0	3431.6	3272.9
40°	2809.9	2796.9	2798.6	2635.0	2485.0	2404.9	2452.2	2770.7	3534.7	3805.1	3609.9
42.5°	3096.8	3087.0	3054.3	2909.3	2740.7	2666.0	2709.6	3043.3	3846.6	4230.5	3979.7
45°	3418.0	3412.0	3381.5	3215.1	3022.1	2938.2	2997.0	3344.4	4160.2	4630.7	4351.0
47.5°	3695.5	3700.5	3696.7	3556.5	3356.4	3233.2	3303.5	3658.4	4451.9	5007.0	4707.1
50°	3829.2	3854.8	3892.4	3848.8	3724.4	3599.1	3612.7	3961.6	4730.0	5359.8	5048.4
52.5°	3759.4	3807.9	3910.4	3980.2	4028.1	4002.0	3965.5	4262.7	4991.8	5678.3	5371.3
55°	3499.2	3567.4	3737.6	3906.1	4150.8	4341.2	4389.2	4596.4	5247.0	5958.5	5676.7
57.5°	3025.4	3136.1	3288.7	3629.5	4041.8	4505.3	4883.2	5059.4	5517.5	6257.9	5996.2
60°	2212.9	2361.2	2550.9	3058.1	3660.1	4417.5	5303.7	5770.4	5901.8	6645.7	6412.3
62.5°	1416.1	1507.8	1682.2	2160.0	2852.0	3967.7	5432.4	6659.3	6553.5	7281.5	7036.1
65°	969.5	1028.5	1188.2	1456.5	1843.7	2953.4	5087.7	7325.7	7588.5	8289.2	8102.7
67.5°	704.6	749.3	885.6	1120.6	1201.3	1747.7	3948.0	7295.1	8594.6	9327.5	9037.4
70°	513.7	545.3	659.8	885.6	924.3	972.3	2391.7	6201.2	8572.8	9603.4	9256.1
72.5°	380.6	402.4	479.3	687.1	748.1	656.5	1183.9	4506.9	7366.6	8686.2	8407.6
75°	275.4	291.7	348.5	525.7	598.7	500.1	590.6	2633.8	5138.4	6110.1	6159.2
77.5°	210.5	223.0	260.1	385.0	479.3	375.2	366.4	1211.7	2436.4	2448.4	2585.9
80°	169.0	177.2	197.4	271.0	367.6	280.8	238.8	489.1	770.0	651.6	683.8
82.5°	124.3	138.0	166.9	190.3	262.8	193.6	145.5	247.0	292.8	251.9	254.1
85°	70.9	80.2	100.9	136.3	168.0	118.3	83.4	109.6	136.3	111.8	99.8
87.5°	25.1	32.7	35.5	53.4	73.1	49.1	32.2	31.7	44.7	33.3	27.8
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°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1517.6	1514.8	1504.0	1489.2	1473.9	1459.3	1454.4	1444.0	1436.8	1433.1	1437.5
5°	1548.2	1539.4	1513.8	1481.0	1446.7	1409.6	1383.4	1359.5	1342.0	1325.6	1332.2
7.5°	1591.7	1576.4	1532.3	1475.1	1414.0	1352.4	1306.6	1271.6	1248.2	1233.0	1236.3
10°	1642.5	1619.0	1551.4	1465.7	1371.4	1283.1	1229.1	1199.1	1184.4	1176.2	1178.4
12.5°	1700.8	1667.6	1571.0	1444.5	1306.6	1205.7	1168.6	1159.9	1160.4	1160.9	1162.0
15°	1772.8	1726.4	1586.8	1398.2	1222.0	1146.3	1139.7	1153.8	1168.6	1175.7	1175.2
17.5°	1854.0	1788.6	1589.6	1321.8	1139.2	1108.0	1128.8	1159.3	1181.7	1191.5	1193.7
20°	1941.2	1851.9	1569.9	1213.8	1071.0	1077.0	1114.1	1153.3	1177.8	1190.4	1193.7
22.5°	2041.1	1919.5	1523.0	1100.4	1015.4	1043.1	1086.8	1124.9	1150.6	1163.2	1166.4
25°	2155.1	1995.3	1449.5	1005.0	967.4	1005.0	1048.7	1080.2	1101.0	1112.4	1115.7
27.5°	2281.5	2074.4	1351.3	929.2	925.4	965.8	1001.7	1026.2	1037.2	1045.9	1049.2
30°	2408.6	2146.4	1232.4	872.0	888.9	927.0	952.6	963.6	966.8	968.4	972.3
32.5°	2546.0	2208.5	1107.5	824.5	853.9	889.4	904.7	909.6	894.3	884.0	887.2
35°	2712.4	2275.0	985.3	786.9	819.6	850.1	855.1	850.6	832.7	811.4	812.5
37.5°	2918.0	2357.9	887.8	760.1	787.4	807.6	801.7	800.5	802.2	777.1	778.7
40°	3169.9	2465.8	816.3	739.4	761.3	765.6	748.7	758.0	766.2	728.0	729.1
42.5°	3449.6	2596.2	771.1	725.3	739.4	729.1	702.9	713.3	712.2	662.0	661.4
45°	3734.8	2738.0	755.2	714.9	719.2	698.5	669.6	672.4	649.4	604.2	605.9
47.5°	4018.4	2890.1	765.1	706.1	694.1	670.8	648.4	636.4	602.6	568.8	568.8
50°	4296.5	3049.9	801.0	688.7	659.8	646.2	629.9	608.5	572.6	543.7	541.5
52.5°	4554.4	3210.8	841.4	659.8	616.7	624.9	614.6	590.0	554.6	525.1	525.7
55°	4798.7	3371.6	857.2	620.0	576.4	606.4	600.3	555.1	512.6	488.6	486.5
57.5°	5064.8	3565.3	839.8	569.3	543.7	585.1	562.2	512.1	487.5	469.6	467.9
60°	5433.4	3869.0	802.2	506.6	512.6	553.5	514.2	493.5	466.8	446.6	445.6
62.5°	6045.9	4435.5	741.6	444.4	476.0	506.6	491.3	470.6	443.3	423.7	423.7
65°	6951.0	5223.0	627.6	395.9	435.1	460.7	466.8	446.1	417.7	397.0	398.1
67.5°	7714.5	5717.0	475.0	355.6	393.2	423.7	440.6	420.5	390.4	370.2	370.8
70°	7672.4	5358.2	362.6	315.7	356.1	387.1	409.0	393.2	361.0	341.9	343.6
72.5°	6814.7	4482.4	293.4	275.4	318.5	349.0	375.2	363.2	330.5	311.9	311.9
75°	5006.5	3181.9	234.5	234.5	271.5	309.1	338.0	330.5	300.4	287.4	283.5
77.5°	2110.4	1335.0	183.8	194.6	225.8	265.6	301.6	304.3	278.1	294.5	267.2
80°	561.1	368.1	140.1	153.2	177.2	219.2	262.3	261.2	232.9	217.6	202.3
82.5°	213.7	145.0	99.8	107.9	128.1	168.0	207.8	214.3	185.9	160.8	160.8
85°	82.3	62.1	61.6	64.9	74.7	111.2	157.0	162.5	140.1	118.9	122.7
87.5°	21.2	18.6	22.9	21.8	34.3	59.4	90.0	93.3	85.6	49.6	70.9
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)