

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: P961534

Luminaire Tested: **NAV-SB2A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961534
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-SB2A-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

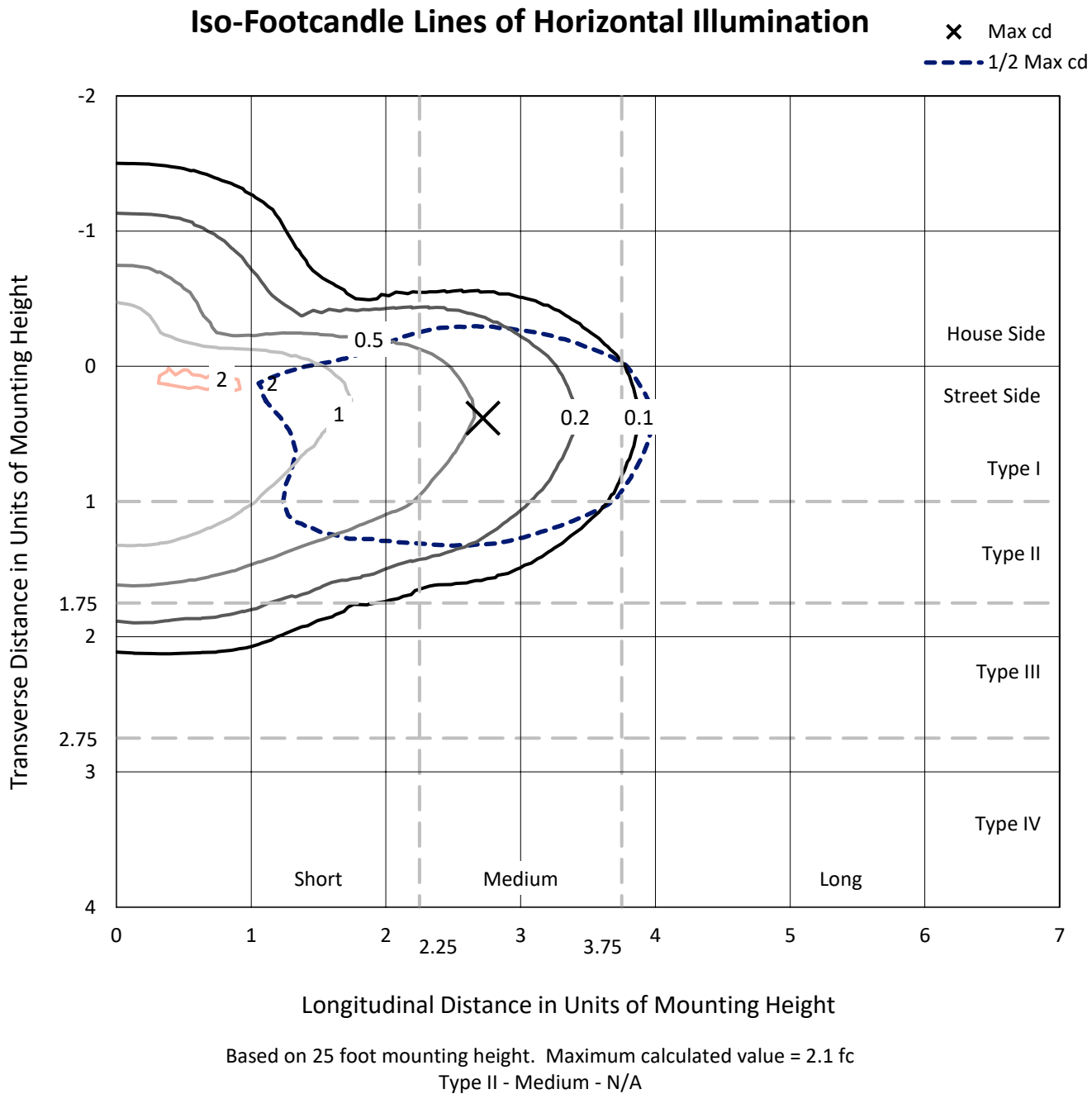
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7922.2 lumens
Efficiency: N/A
Efficacy: 138.3 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): 57.3
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

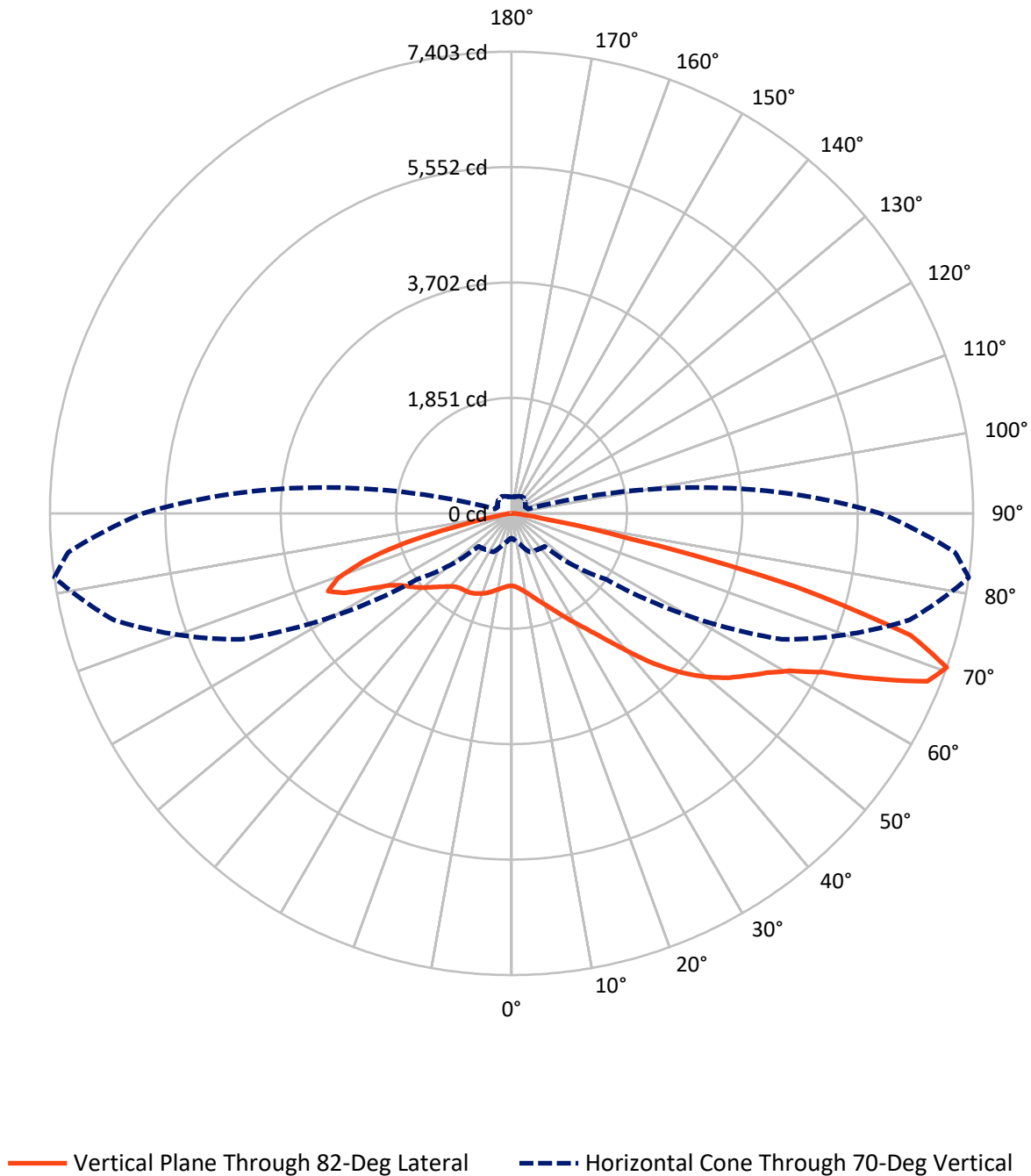


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1953.0	0.0	1953.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5969.2	0.0	5969.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	7922.2	0.0	7922.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.4
10°-20°	315.1	4.0
20°-30°	527.1	6.7
30°-40°	823.5	10.4
40°-50°	1311.4	16.6
50°-60°	1825.0	23.0
60°-70°	1909.1	24.1
70°-80°	997.8	12.6
80°-90°	103.6	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°	7922.2	100.0
0°-180°	7922.2	100.0

Coefficient of Utilization



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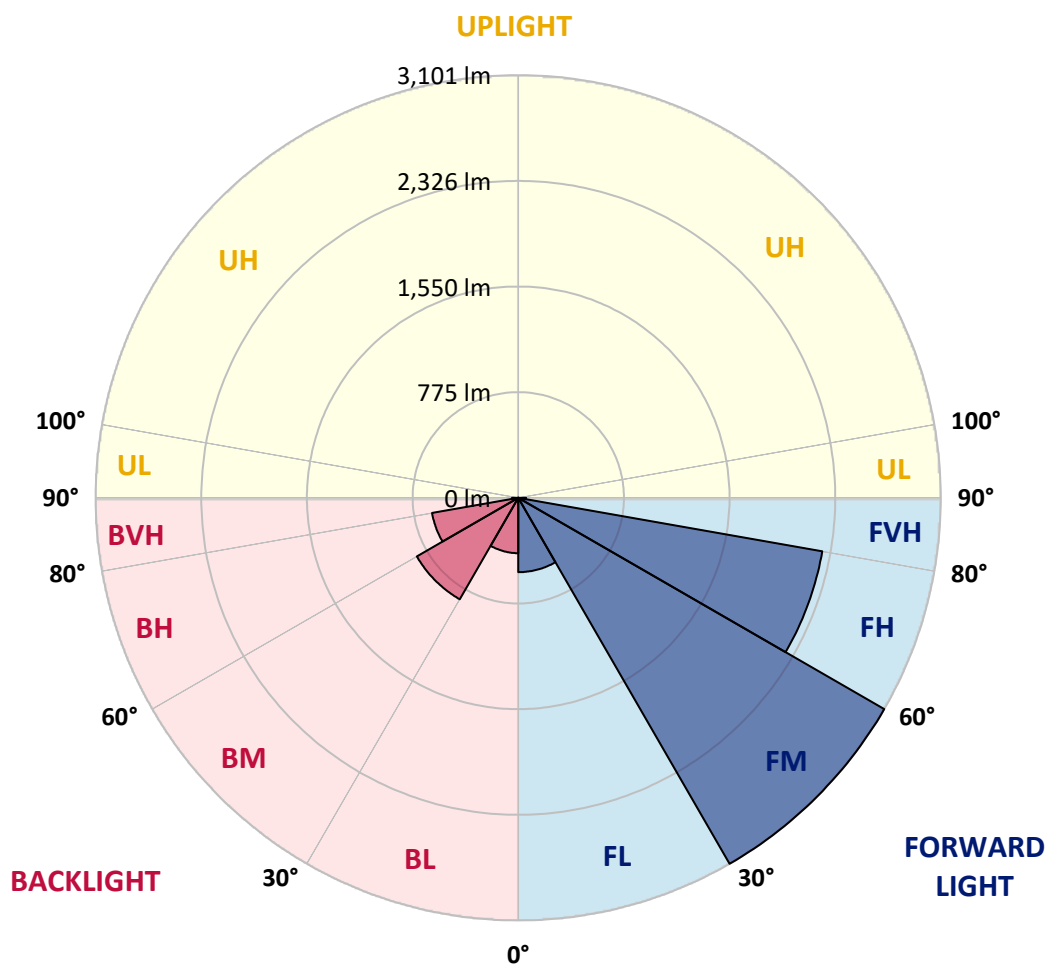
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	545.5	6.9			
FM	(30°-60°)	3100.7	39.1			
FH	(60°-80°)	2265.0	28.6			G2/5000
FVH	(80°-90°)	58.0	0.7			G1/100
BL	(0°-30°)	406.3	5.1	B1/500		
BM	(30°-60°)	859.3	10.8	B1/1000		
BH	(60°-80°)	641.9	8.1	B2/1000		G2/1000
BVH	(80°-90°)	45.6	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
2.5°	1189.2	1196.0	1193.8	1191.8	1191.8	1188.8	1188.4	1184.2	1180.8	1175.4	1174.1
5°	1204.4	1211.6	1210.7	1212.4	1217.8	1219.1	1220.4	1217.8	1211.1	1204.4	1201.4
7.5°	1190.9	1198.9	1201.4	1211.6	1228.4	1243.4	1254.8	1259.4	1253.2	1243.4	1238.8
10°	1145.5	1154.4	1163.2	1187.2	1217.0	1252.8	1283.0	1301.0	1299.8	1290.6	1282.6
12.5°	1053.5	1062.7	1081.6	1128.3	1183.0	1246.0	1302.4	1340.2	1353.2	1346.4	1332.6
15°	979.9	987.9	1002.1	1050.1	1121.1	1217.0	1309.4	1383.0	1416.2	1412.4	1395.6
17.5°	977.7	981.1	989.9	1012.7	1067.3	1171.6	1301.9	1425.1	1488.5	1488.1	1467.1
20°	1014.7	1016.1	1021.1	1025.7	1056.8	1137.1	1282.6	1460.0	1569.7	1569.7	1547.0
22.5°	1066.1	1065.3	1070.3	1066.1	1081.2	1134.2	1270.4	1490.7	1660.1	1666.8	1638.2
25°	1143.0	1138.8	1137.5	1127.9	1130.8	1161.5	1283.8	1525.5	1767.3	1781.1	1745.4
27.5°	1245.6	1238.8	1234.2	1212.0	1204.4	1217.8	1325.0	1567.5	1886.6	1910.6	1865.2
30°	1379.2	1367.0	1360.4	1321.6	1294.4	1296.4	1387.2	1623.5	2011.5	2050.2	1992.6
32.5°	1561.7	1542.7	1524.7	1461.2	1411.2	1394.8	1467.5	1700.9	2146.9	2208.7	2134.7
35°	1766.0	1750.9	1731.5	1633.5	1556.7	1518.8	1575.9	1808.9	2305.3	2403.3	2307.1
37.5°	1962.8	1949.7	1959.0	1827.0	1727.7	1672.7	1718.1	1953.9	2500.8	2645.4	2523.1
40°	2166.2	2156.1	2157.3	2031.2	1915.6	1853.8	1890.4	2135.9	2724.9	2933.3	2782.9
42.5°	2387.3	2379.7	2354.5	2242.7	2112.8	2055.2	2088.8	2346.1	2965.3	3261.2	3067.9
45°	2634.9	2630.3	2606.8	2478.6	2329.7	2264.9	2310.4	2578.2	3207.0	3569.9	3354.2
47.5°	2848.9	2852.7	2849.7	2741.7	2587.4	2492.4	2546.6	2820.3	3431.9	3859.8	3628.7
50°	2951.9	2971.7	3000.7	2967.0	2871.1	2774.5	2785.0	3054.0	3646.3	4131.9	3891.8
52.5°	2898.1	2935.5	3014.5	3068.3	3105.3	3085.1	3057.0	3286.0	3848.2	4377.4	4140.7
55°	2697.6	2750.1	2881.3	3011.1	3199.9	3346.6	3383.6	3543.3	4044.9	4593.4	4376.1
57.5°	2332.3	2417.6	2535.2	2798.0	3115.8	3473.1	3764.4	3900.2	4253.3	4824.3	4622.4
60°	1705.9	1820.2	1966.6	2357.5	2821.5	3405.5	4088.5	4448.4	4549.8	5123.2	4943.2
62.5°	1091.7	1162.4	1296.8	1665.1	2198.5	3058.7	4187.7	5133.6	5052.1	5613.3	5424.1
65°	747.4	792.8	916.0	1122.8	1421.3	2276.7	3922.1	5647.3	5850.0	6390.2	6246.3
67.5°	543.1	577.6	682.6	863.9	926.1	1347.3	3043.5	5623.8	6625.5	7190.5	6966.9
70°	396.0	420.4	508.6	682.6	712.6	749.5	1843.8	4780.5	6608.7	7403.3	7135.4
72.5°	293.5	310.3	369.5	529.7	576.8	506.1	912.7	3474.4	5678.8	6696.1	6481.4
75°	212.3	224.9	268.7	405.3	461.6	385.5	455.3	2030.4	3961.2	4710.3	4748.1
77.5°	162.3	171.9	200.5	296.7	369.5	289.3	282.5	934.1	1878.2	1887.4	1993.4
80°	130.3	136.6	152.2	208.9	283.3	216.5	184.1	377.1	593.6	502.4	527.2
82.5°	95.8	106.4	128.6	146.7	202.6	149.2	112.2	190.4	225.7	194.2	195.9
85°	54.6	61.8	77.8	105.1	129.5	91.2	64.3	84.5	105.1	86.2	77.0
87.5°	19.4	25.2	27.4	41.2	56.4	37.8	24.8	24.4	34.4	25.6	21.4
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°	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5	1161.5
2.5°	1169.9	1167.8	1159.4	1148.0	1136.3	1124.9	1121.1	1113.1	1107.7	1104.7	1108.1
5°	1193.4	1186.7	1167.0	1141.7	1115.3	1086.7	1066.5	1048.0	1034.5	1021.9	1026.9
7.5°	1227.0	1215.3	1181.2	1137.1	1090.0	1042.5	1007.3	980.3	962.3	950.5	952.9
10°	1266.2	1248.1	1196.0	1130.0	1057.3	989.1	947.5	924.4	913.1	906.7	908.5
12.5°	1311.2	1285.6	1211.1	1113.6	1007.3	929.5	900.9	894.1	894.5	895.0	895.8
15°	1366.6	1330.9	1223.3	1077.9	942.1	883.7	878.6	889.5	900.9	906.3	905.9
17.5°	1429.3	1378.8	1225.4	1019.0	878.1	854.2	870.2	893.7	910.9	918.5	920.2
20°	1496.5	1427.6	1210.2	935.7	825.6	830.2	858.8	889.1	908.0	917.7	920.2
22.5°	1573.5	1479.7	1174.1	848.3	782.7	804.2	837.8	867.3	887.0	896.7	899.2
25°	1661.3	1538.1	1117.4	774.8	745.8	774.8	808.4	832.8	848.7	857.5	860.1
27.5°	1758.9	1599.1	1041.7	716.3	713.4	744.5	772.2	791.2	799.6	806.3	808.8
30°	1856.8	1654.6	950.1	672.2	685.2	714.6	734.4	742.8	745.3	746.6	749.5
32.5°	1962.8	1702.5	853.8	635.6	658.4	685.6	697.4	701.2	689.4	681.4	684.0
35°	2090.9	1753.8	759.6	606.6	631.8	655.4	659.2	655.8	642.0	625.6	626.4
37.5°	2249.5	1817.7	684.4	586.0	607.0	622.6	618.0	617.2	618.4	599.0	600.3
40°	2443.6	1901.0	629.3	570.0	586.8	590.2	577.2	584.4	590.6	561.2	562.0
42.5°	2659.3	2001.4	594.4	559.1	570.0	562.0	541.8	549.8	549.0	510.3	509.9
45°	2879.1	2110.7	582.2	551.1	554.5	538.5	516.2	518.3	500.7	465.8	467.0
47.5°	3097.8	2227.9	589.8	544.4	535.2	517.1	499.8	490.6	464.5	438.5	438.5
50°	3312.2	2351.1	617.6	530.9	508.6	498.2	485.5	469.1	441.4	419.1	417.5
52.5°	3510.9	2475.2	648.6	508.6	475.4	481.7	473.8	454.9	427.5	404.8	405.3
55°	3699.3	2599.2	660.8	478.0	444.3	467.5	462.8	427.9	395.1	376.7	374.9
57.5°	3904.4	2748.4	647.4	438.9	419.1	451.1	433.4	394.7	375.8	361.9	360.7
60°	4188.7	2982.5	618.4	390.5	395.1	426.7	396.4	380.5	359.9	344.3	343.5
62.5°	4660.7	3419.3	571.7	342.6	367.0	390.5	378.7	362.7	341.7	326.7	326.7
65°	5358.5	4026.4	483.9	305.1	335.5	355.3	359.9	343.9	322.1	306.1	306.9
67.5°	5947.0	4407.2	366.1	274.1	303.1	326.7	339.7	324.1	300.9	285.5	285.9
70°	5914.7	4130.6	279.5	243.4	274.5	298.5	315.3	303.1	278.3	263.5	264.9
72.5°	5253.4	3455.5	226.1	212.3	245.5	269.1	289.3	279.9	254.7	240.5	240.5
75°	3859.4	2452.9	180.8	180.8	209.3	238.3	260.7	254.7	231.6	221.5	218.6
77.5°	1626.9	1029.1	141.7	150.1	174.0	204.7	232.5	234.5	214.4	227.0	206.0
80°	432.6	283.7	108.0	118.1	136.6	169.0	202.2	201.3	179.5	167.7	156.0
82.5°	164.8	111.8	77.0	83.2	98.8	129.5	160.2	165.2	143.4	124.0	124.0
85°	63.4	48.0	47.5	50.0	57.6	85.8	121.1	125.3	108.0	91.6	94.6
87.5°	16.4	14.2	17.6	16.8	26.4	45.8	69.4	71.9	66.0	38.2	54.6
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)