

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: P962048

Luminaire Tested: **NAV-SB2B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

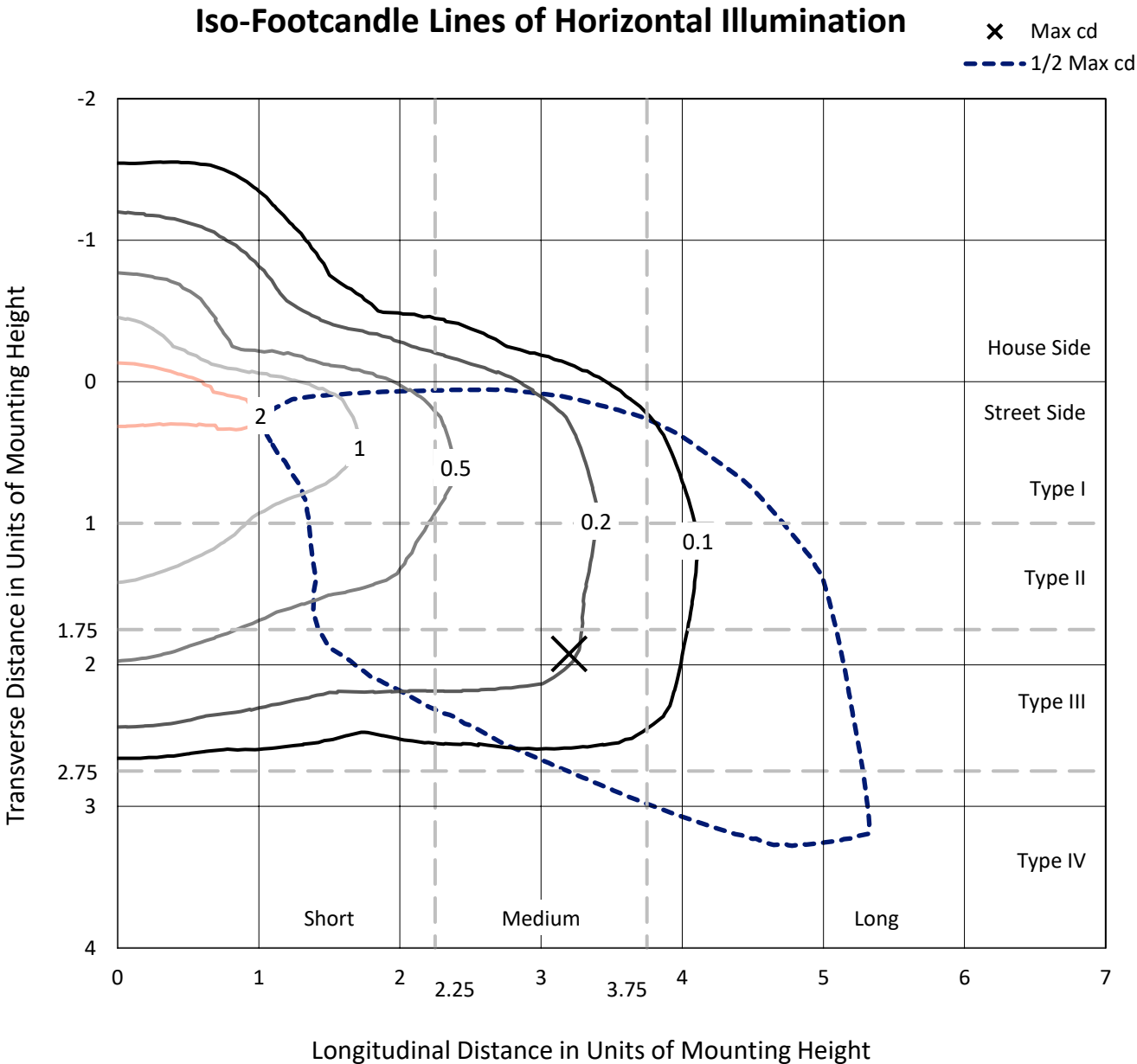
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9809.2 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

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

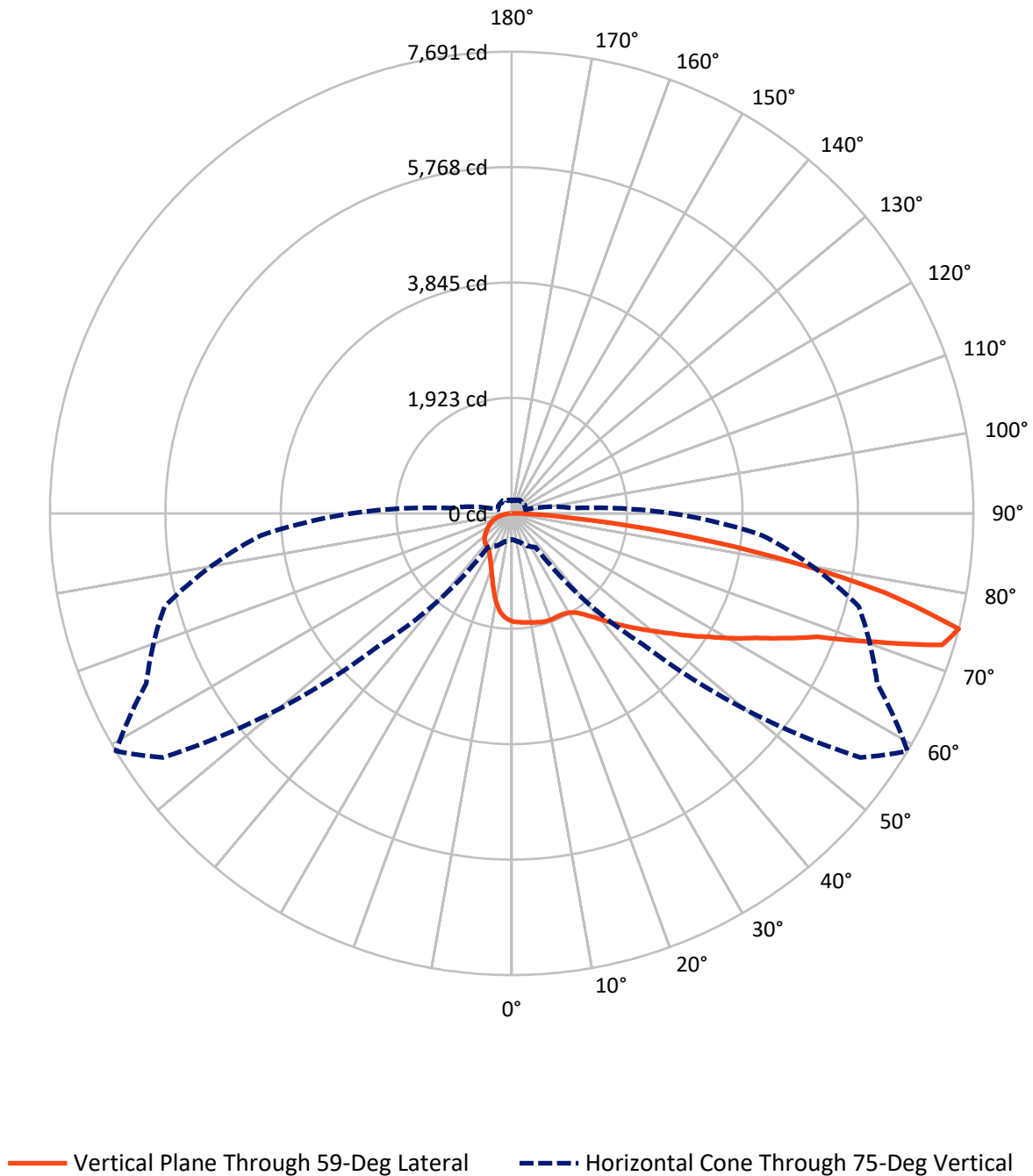


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1839.8	0.0	1839.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7969.5	0.0	7969.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	9809.2	0.0	9809.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	1.6
10°-20°	412.7	4.2
20°-30°	626.8	6.4
30°-40°	931.7	9.5
40°-50°	1385.6	14.1
50°-60°	1880.8	19.2
60°-70°	2296.1	23.4
70°-80°	1802.0	18.4
80°-90°	312.1	3.2
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°	9809.2	100.0
0°-180°	9809.2	100.0

Coefficient of Utilization



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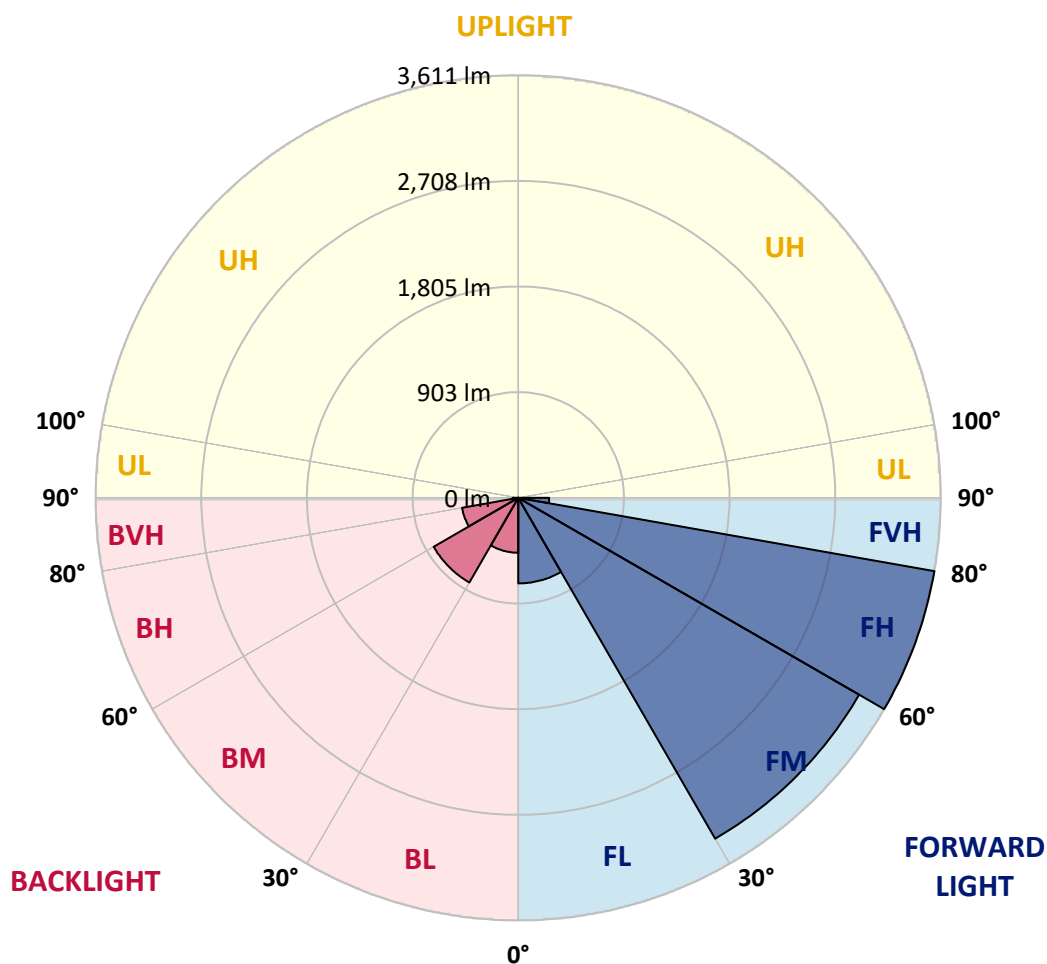
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.4	7.5			
FM	(30°-60°)	3363.0	34.3			
FH	(60°-80°)	3610.7	36.8			G2/5000
FVH	(80°-90°)	264.4	2.7			G3/500
BL	(0°-30°)	469.5	4.8	B1/500		
BM	(30°-60°)	835.1	8.5	B1/1000		
BH	(60°-80°)	487.4	5.0	B1/500		G1/500
BVH	(80°-90°)	47.8	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5
2.5°	1815.8	1809.4	1815.8	1813.1	1812.1	1809.9	1810.5	1814.1	1812.1	1814.8	1805.7
5°	1803.6	1799.9	1806.3	1804.7	1811.6	1812.6	1819.5	1823.7	1826.3	1826.9	1820.0
7.5°	1783.6	1779.9	1788.8	1796.2	1811.0	1815.3	1829.5	1836.4	1840.1	1846.3	1836.4
10°	1710.2	1708.7	1730.8	1758.8	1793.6	1815.3	1836.9	1848.5	1854.3	1871.1	1859.6
12.5°	1580.4	1582.5	1611.5	1665.4	1735.0	1804.7	1845.3	1862.2	1871.1	1892.3	1887.0
15°	1456.4	1455.9	1487.6	1545.1	1642.7	1758.3	1849.5	1878.5	1893.9	1925.0	1920.7
17.5°	1384.7	1382.5	1404.7	1448.5	1539.2	1687.0	1839.0	1887.5	1920.2	1959.3	1955.6
20°	1371.4	1367.2	1378.8	1400.5	1464.8	1608.9	1811.6	1887.5	1941.4	1992.0	1989.9
22.5°	1419.5	1412.7	1407.8	1405.3	1433.8	1544.6	1780.4	1881.2	1972.5	2038.9	2035.2
25°	1516.1	1505.5	1481.2	1457.4	1449.0	1515.6	1753.0	1879.6	2018.9	2102.3	2088.5
27.5°	1672.3	1659.1	1610.0	1553.0	1501.8	1530.3	1740.9	1889.1	2070.1	2169.3	2141.8
30°	1865.9	1851.7	1790.0	1702.3	1610.5	1585.2	1756.1	1917.1	2135.6	2258.5	2204.7
32.5°	2039.5	2023.7	1970.9	1881.7	1757.8	1680.2	1804.7	1970.4	2238.4	2382.5	2299.2
35°	2193.6	2175.2	2127.6	2045.3	1938.2	1813.6	1892.3	2064.9	2384.7	2584.1	2427.4
37.5°	2344.5	2322.9	2271.2	2184.1	2109.1	1991.5	2013.1	2186.2	2578.8	2828.9	2597.2
40°	2513.4	2482.2	2419.4	2333.4	2260.6	2200.0	2172.0	2335.1	2776.1	3102.3	2809.4
42.5°	2677.0	2647.4	2572.4	2499.2	2407.8	2390.4	2356.2	2509.2	2992.0	3402.5	3024.7
45°	2853.2	2817.8	2727.1	2634.2	2576.6	2517.1	2534.5	2683.2	3203.5	3708.6	3250.6
47.5°	3018.3	2978.8	2871.6	2768.2	2736.5	2623.7	2698.1	2874.8	3423.6	4018.8	3474.2
50°	3107.6	3068.5	2979.4	2885.9	2861.1	2755.1	2875.3	3085.4	3654.2	4328.1	3689.1
52.5°	3181.9	3139.8	3023.1	2971.4	2964.0	2898.1	3093.9	3326.0	3884.9	4601.4	3896.4
55°	3261.1	3214.1	3065.4	3018.9	3052.7	3058.5	3352.9	3598.8	4128.6	4867.9	4092.2
57.5°	3352.4	3292.8	3106.0	3059.0	3139.2	3246.3	3650.5	3881.7	4368.1	5114.9	4266.4
60°	3438.4	3378.3	3184.1	3122.9	3232.6	3464.3	3992.0	4224.1	4639.5	5334.9	4431.0
62.5°	3455.3	3405.7	3246.3	3245.8	3359.2	3718.6	4396.1	4569.8	4876.3	5552.3	4578.8
65°	3162.9	3131.8	3037.4	3241.0	3540.8	4084.8	4846.3	5011.9	5177.7	5742.3	4708.5
67.5°	2407.3	2411.5	2404.6	2797.8	3394.1	4611.0	5498.0	5485.3	5549.7	5955.5	4857.9
70°	1100.7	1125.6	1287.0	1931.3	2719.1	4671.6	6575.5	6411.4	6016.6	6231.5	4987.1
72.5°	594.7	613.7	679.7	935.6	1634.8	4153.4	7380.7	7497.4	6637.8	6417.2	4845.2
75°	436.4	446.9	492.8	594.7	686.5	3087.0	7092.1	7690.5	6715.3	5984.0	4184.0
77.5°	326.7	331.4	368.9	471.2	351.5	1627.4	5666.8	6369.1	5748.6	4916.4	3090.7
80°	237.0	242.2	270.2	353.5	246.4	595.2	3891.2	4470.5	3937.0	3133.9	1540.3
82.5°	163.6	165.7	177.8	240.7	172.0	231.1	2207.8	2621.5	2197.8	1099.7	415.8
85°	98.7	101.3	106.6	140.3	97.6	109.8	953.0	985.7	656.9	262.8	129.3
87.5°	40.6	43.3	47.5	59.1	38.5	30.6	157.2	197.3	123.0	77.1	40.1
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°	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5	1800.5
2.5°	1803.1	1799.4	1789.3	1775.7	1763.0	1747.2	1740.3	1734.5	1729.3	1719.2	1714.4
5°	1814.1	1804.2	1777.2	1742.4	1702.8	1659.6	1617.3	1588.3	1563.5	1545.1	1529.8
7.5°	1831.1	1812.1	1763.0	1691.8	1601.0	1508.1	1424.2	1364.6	1319.8	1303.4	1274.9
10°	1848.5	1825.8	1740.3	1614.7	1458.0	1315.0	1203.7	1142.5	1106.6	1094.9	1077.0
12.5°	1869.1	1835.8	1705.0	1507.6	1298.1	1141.3	1044.3	1008.4	989.9	983.6	985.2
15°	1899.1	1844.3	1651.7	1373.6	1145.6	1014.7	951.9	927.1	917.7	917.2	919.2
17.5°	1921.9	1845.8	1568.8	1230.0	1028.5	938.2	886.5	877.0	883.3	892.9	896.6
20°	1947.2	1831.6	1460.1	1099.2	946.2	871.2	849.6	855.9	871.2	884.9	889.7
22.5°	1965.1	1805.7	1328.7	997.3	874.9	832.7	831.7	844.8	853.3	860.2	863.9
25°	1980.9	1762.0	1189.4	911.8	816.3	809.4	821.1	816.8	811.1	816.8	820.5
27.5°	1992.5	1692.8	1064.9	836.9	775.2	793.7	786.8	777.3	776.7	779.9	785.2
30°	1988.8	1600.4	962.5	765.7	746.1	764.1	747.7	746.1	744.6	746.1	751.9
32.5°	1988.8	1495.5	883.9	716.6	727.6	720.8	719.2	715.6	709.2	708.7	715.6
35°	2000.0	1390.4	816.3	690.2	712.4	696.0	697.1	688.1	674.9	668.6	674.9
37.5°	2022.6	1306.1	749.3	677.5	685.4	684.9	680.7	665.4	642.2	622.2	629.0
40°	2077.5	1281.2	703.4	671.8	672.8	679.2	668.1	638.5	585.7	553.0	557.2
42.5°	2163.5	1322.9	693.4	657.5	664.4	670.7	649.0	580.5	542.9	523.5	523.5
45°	2272.7	1395.7	715.0	636.9	644.3	655.4	591.0	558.3	541.4	541.9	544.6
47.5°	2411.0	1472.2	755.1	619.0	615.3	621.7	552.5	532.4	509.2	515.1	529.8
50°	2570.9	1549.8	793.1	594.7	583.1	562.5	527.7	508.7	479.2	465.5	469.1
52.5°	2743.9	1624.7	808.4	565.2	548.3	524.5	510.8	487.6	451.7	429.0	428.4
55°	2908.1	1692.8	791.5	529.8	513.4	495.0	492.8	478.6	440.1	408.5	408.5
57.5°	3063.2	1749.8	749.3	493.9	478.1	467.0	481.2	474.4	425.9	385.2	383.1
60°	3194.6	1788.8	688.1	457.5	446.4	440.6	462.3	460.1	405.8	360.4	358.9
62.5°	3299.1	1804.2	620.5	422.7	420.0	409.5	435.8	435.8	380.5	336.1	334.6
65°	3380.9	1789.3	552.0	388.4	393.7	377.8	403.6	400.5	353.5	314.5	312.4
67.5°	3453.2	1740.9	476.0	354.6	366.7	346.7	369.9	362.5	324.0	292.8	290.8
70°	3485.4	1627.9	389.4	320.8	335.6	316.1	336.1	322.5	290.8	269.7	265.5
72.5°	3226.8	1353.0	306.6	285.5	298.2	282.3	299.7	283.9	254.9	245.4	237.5
75°	2669.6	1015.3	235.9	246.9	256.5	244.4	255.9	244.4	217.9	224.8	205.3
77.5°	1938.7	685.4	180.5	206.3	210.5	204.2	214.2	201.0	177.3	175.7	167.8
80°	964.1	401.6	141.4	163.1	161.4	157.2	168.8	162.6	142.5	150.9	149.3
82.5°	279.1	172.0	102.9	114.5	111.3	112.4	120.8	124.0	185.7	184.2	188.4
85°	87.6	67.5	61.7	63.9	60.7	62.2	71.2	141.4	130.9	76.5	82.8
87.5°	22.7	23.3	15.3	16.4	16.9	20.1	22.7	86.0	41.2	27.0	28.5
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)