

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: P959966

Luminaire Tested: **NAV-SB1B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-830-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

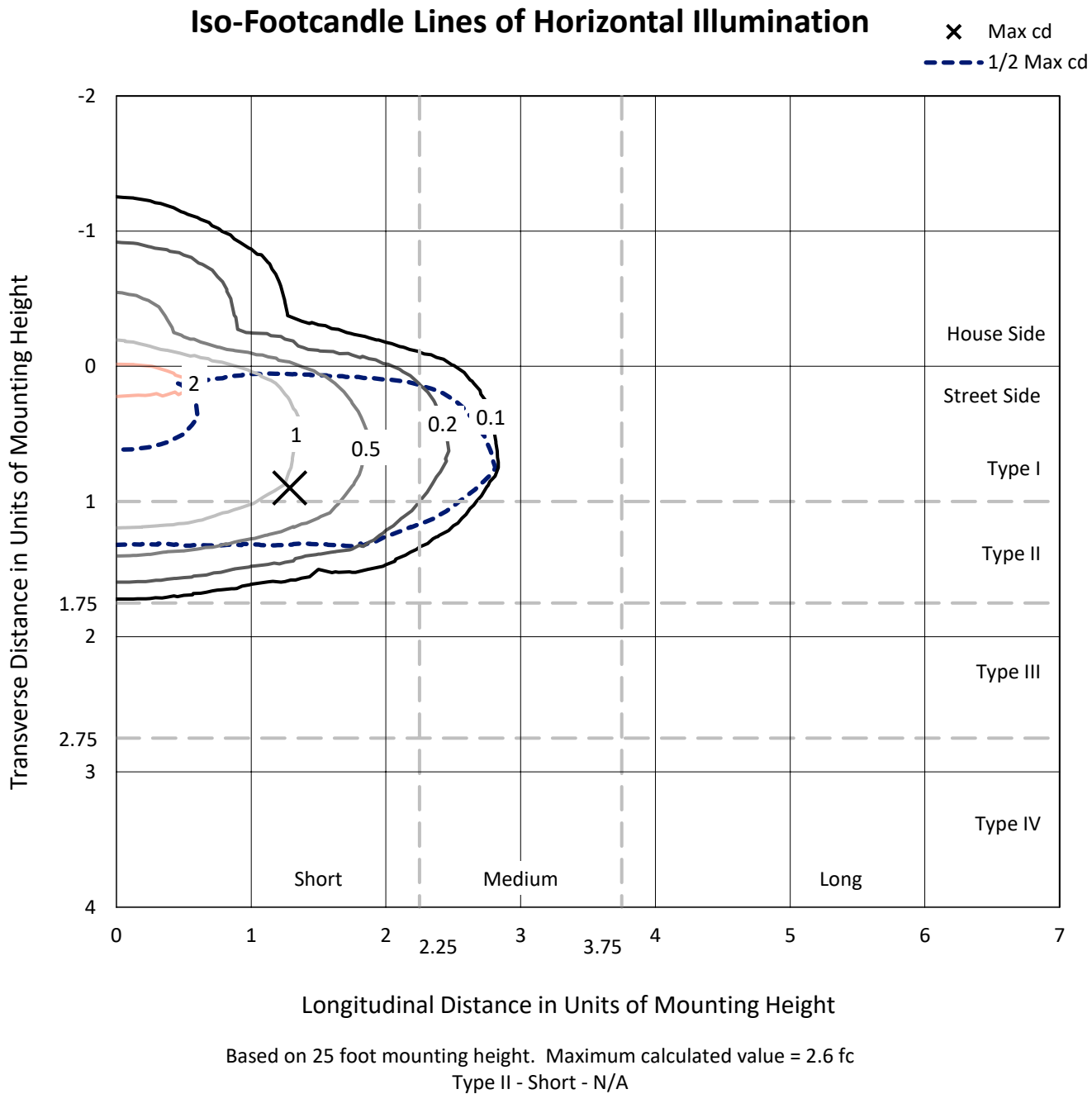
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5276.7 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

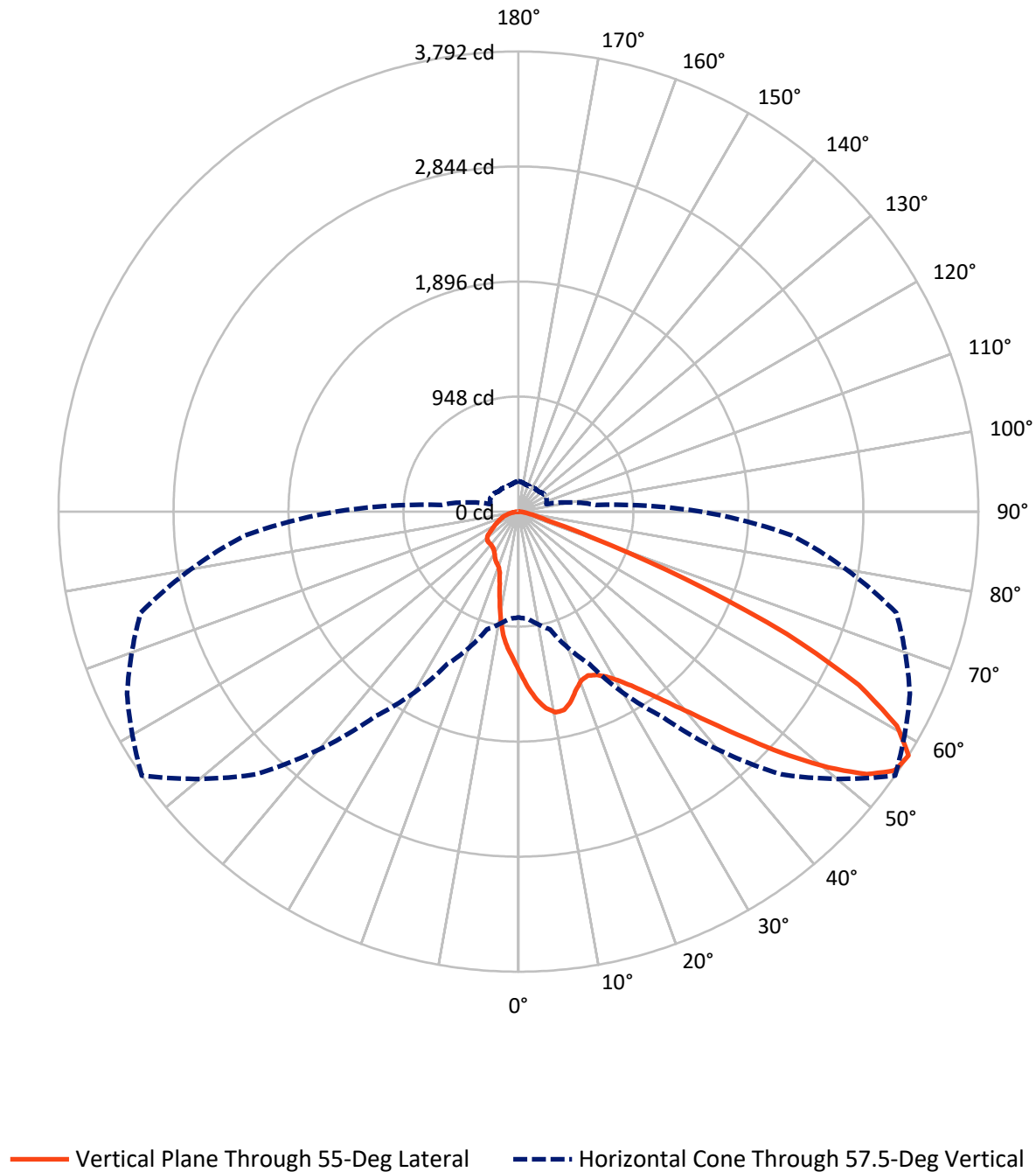


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	954.8	0.0	954.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4321.9	0.0	4321.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	5276.7	0.0	5276.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	2.3
10°-20°	309.7	5.9
20°-30°	494.2	9.4
30°-40°	782.4	14.8
40°-50°	1197.5	22.7
50°-60°	1282.6	24.3
60°-70°	806.9	15.3
70°-80°	238.6	4.5
80°-90°	42.2	0.8
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°	5276.7	100.0
0°-180°	5276.7	100.0

Coefficient of Utilization



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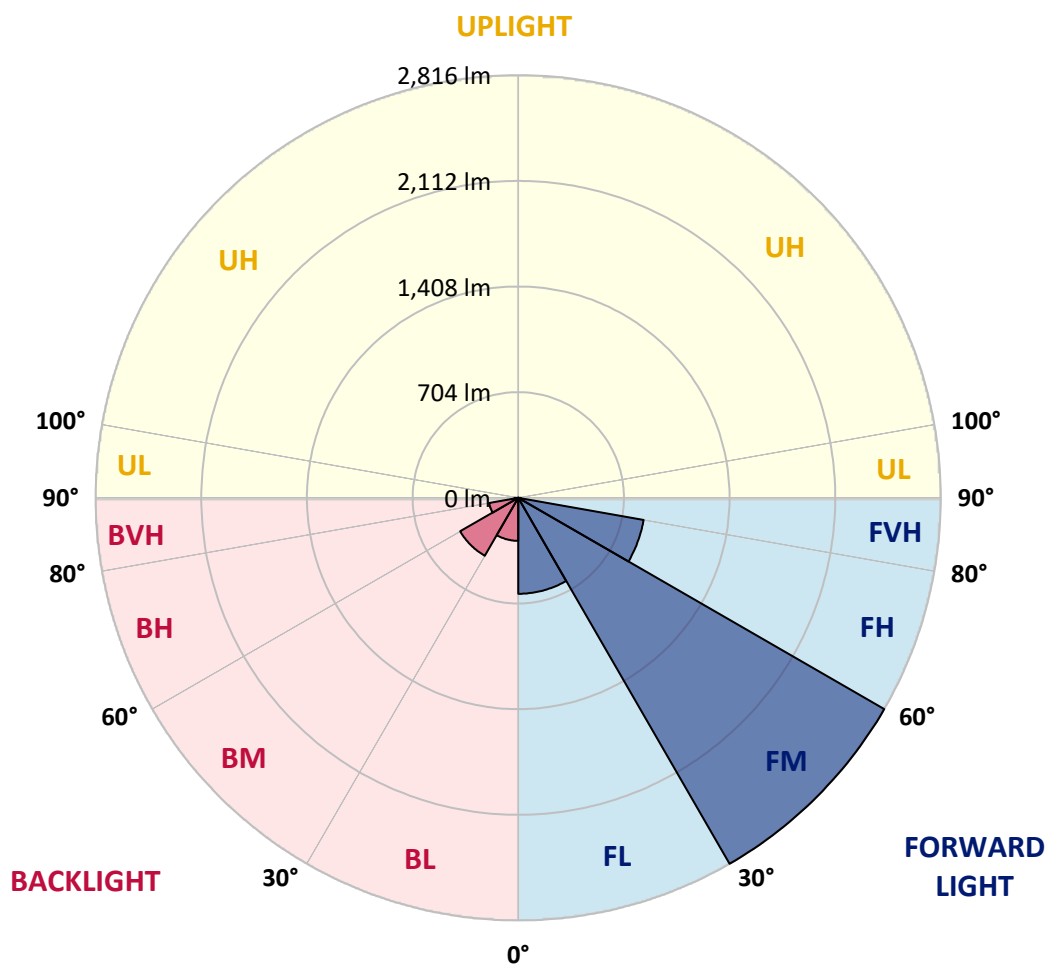
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	639.5	12.1			
FM	(30°-60°)	2816.2	53.4			
FH	(60°-80°)	848.3	16.1			G1/1800
FVH	(80°-90°)	17.8	0.3			G1/100
BL	(0°-30°)	287.0	5.4	B1/500		
BM	(30°-60°)	446.3	8.5	B1/1000		
BH	(60°-80°)	197.2	3.7	B1/500		G1/500
BVH	(80°-90°)	24.4	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1
2.5°	1516.9	1515.9	1521.8	1501.4	1487.5	1468.6	1443.8	1412.1	1378.1	1342.0	1326.6
5°	1653.6	1644.1	1650.4	1635.1	1619.8	1591.4	1554.6	1503.1	1440.0	1368.3	1330.0
7.5°	1632.0	1625.5	1641.6	1655.3	1666.6	1663.2	1636.1	1582.1	1500.8	1396.7	1341.3
10°	1458.3	1450.9	1473.5	1520.8	1590.1	1650.4	1683.0	1649.5	1563.0	1427.7	1352.2
12.5°	1305.0	1301.4	1316.4	1354.6	1431.5	1547.2	1677.1	1708.5	1627.7	1464.5	1366.9
15°	1239.5	1235.1	1244.7	1264.0	1313.1	1421.0	1622.5	1748.8	1691.2	1507.2	1390.4
17.5°	1225.1	1220.2	1224.3	1234.3	1266.0	1348.1	1540.2	1768.7	1757.6	1554.6	1410.0
20°	1251.8	1247.7	1248.2	1247.7	1269.8	1335.0	1482.9	1761.1	1815.4	1598.2	1429.1
22.5°	1316.4	1309.6	1309.8	1295.4	1307.5	1357.9	1467.8	1740.7	1866.9	1636.4	1443.5
25°	1421.8	1409.5	1411.9	1375.1	1371.9	1409.2	1491.3	1724.8	1918.2	1667.0	1446.3
27.5°	1565.8	1551.8	1544.5	1489.6	1463.5	1482.0	1539.0	1730.2	1966.8	1693.4	1439.5
30°	1745.8	1728.9	1713.9	1636.1	1588.6	1581.9	1613.2	1766.3	2024.1	1721.3	1427.7
32.5°	1966.5	1946.9	1919.5	1816.4	1749.6	1713.9	1709.3	1830.3	2091.1	1756.7	1421.8
35°	2229.2	2203.5	2164.8	2031.4	1946.9	1873.7	1835.8	1922.8	2183.0	1810.2	1428.5
37.5°	2499.8	2470.9	2435.4	2276.6	2172.7	2065.0	1990.2	2048.4	2305.5	1882.7	1446.6
40°	2749.4	2716.9	2683.9	2542.6	2431.0	2301.2	2179.3	2207.0	2455.3	1969.4	1477.1
42.5°	2896.6	2872.7	2860.2	2783.7	2697.5	2565.8	2414.4	2395.3	2623.6	2069.3	1512.0
45°	2890.1	2880.2	2919.0	2950.7	2930.2	2857.1	2689.9	2603.4	2792.5	2155.8	1544.2
47.5°	2735.7	2742.3	2828.7	3006.6	3084.8	3123.1	3003.6	2807.8	2939.2	2220.5	1558.7
50°	2315.7	2321.1	2521.3	2904.8	3124.7	3340.0	3314.8	3007.1	3053.0	2260.0	1555.4
52.5°	1983.1	1986.7	2072.5	2603.2	2993.2	3449.0	3595.3	3195.1	3136.2	2270.9	1537.1
55°	1493.7	1506.0	1602.3	2042.3	2651.2	3362.6	3766.1	3388.8	3188.8	2272.0	1518.0
57.5°	872.6	886.0	1004.9	1386.3	2060.6	3061.2	3791.9	3560.6	3224.5	2263.3	1506.5
60°	427.4	433.2	485.0	728.6	1270.6	2480.4	3583.5	3643.8	3244.4	2258.6	1506.0
62.5°	288.0	287.2	289.5	359.6	626.1	1593.6	3149.2	3498.1	3233.8	2240.9	1500.6
65°	247.6	244.7	236.5	252.4	324.3	728.9	2433.2	3063.3	3152.8	2196.5	1463.2
67.5°	214.1	214.4	214.6	209.8	231.5	336.3	1487.0	2413.1	2862.0	1985.8	1319.2
70°	177.3	179.8	180.8	180.8	188.8	220.7	634.8	1653.8	2257.6	1557.1	1062.5
72.5°	161.4	156.3	156.8	154.2	154.2	168.0	255.6	937.6	1422.3	875.9	648.4
75°	131.7	135.0	135.6	133.7	127.4	128.2	151.7	393.4	608.5	363.4	320.5
77.5°	113.8	113.8	114.8	113.5	108.5	96.0	101.2	152.5	207.0	148.9	160.1
80°	91.4	91.1	95.7	98.5	90.8	70.9	64.7	84.3	91.9	65.5	83.2
82.5°	44.5	47.2	65.7	75.0	69.0	51.2	39.6	52.4	49.1	28.9	37.4
85°	25.9	24.6	29.4	41.7	39.6	28.4	19.1	27.3	25.6	14.8	15.0
87.5°	8.2	7.7	6.0	14.1	11.5	7.9	5.2	7.9	7.1	3.3	3.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1	1322.1
2.5°	1307.2	1275.0	1243.0	1213.9	1196.2	1184.7	1173.2	1160.4	1155.5	1148.1
5°	1294.1	1231.8	1176.5	1128.7	1085.4	1051.3	1016.9	989.1	976.5	985.0
7.5°	1286.5	1196.4	1111.0	1023.5	939.2	871.8	813.1	771.9	753.4	758.1
10°	1279.6	1156.3	1026.2	887.9	766.8	683.4	623.3	591.9	580.3	582.6
12.5°	1273.4	1111.3	923.9	742.0	613.3	558.1	540.9	541.2	543.4	545.0
15°	1272.2	1057.0	809.6	614.3	530.3	526.7	545.3	557.0	563.3	565.2
17.5°	1270.6	992.1	693.1	527.3	510.1	534.1	551.2	558.9	563.9	564.2
20°	1264.0	909.7	585.7	485.8	505.7	526.4	537.1	543.1	547.2	548.6
22.5°	1243.8	818.1	501.9	467.3	488.3	504.9	517.4	524.3	526.7	528.4
25°	1207.6	715.6	444.1	449.6	464.0	485.0	495.1	496.5	495.7	498.0
27.5°	1160.1	605.6	408.1	425.6	444.1	462.1	467.5	466.7	465.0	467.8
30°	1102.9	506.9	385.2	398.5	423.9	440.2	445.2	443.3	440.0	443.0
32.5°	1042.3	426.1	366.3	379.7	407.2	423.3	428.2	426.4	423.9	426.4
35°	985.8	369.6	348.9	367.2	394.2	410.0	416.3	416.6	416.6	419.5
37.5°	934.0	336.6	334.5	359.3	385.2	399.3	408.4	408.9	397.2	398.0
40°	886.0	322.7	327.9	354.0	376.5	390.1	390.6	360.1	338.6	337.9
42.5°	846.8	320.0	329.7	353.5	370.1	370.7	332.2	308.5	302.5	302.8
45°	809.9	319.2	334.2	353.5	360.9	320.2	294.4	288.0	288.6	290.8
47.5°	768.6	315.9	335.0	348.6	334.2	284.7	277.2	274.4	273.4	273.9
50°	723.6	304.1	324.6	338.8	288.3	269.5	259.9	259.1	260.6	261.4
52.5°	676.2	285.1	306.9	321.0	267.3	256.1	245.5	247.4	253.4	255.3
55°	645.1	262.7	283.4	285.6	252.6	243.6	234.6	238.9	250.1	253.7
57.5°	636.9	238.9	256.7	254.2	233.8	232.7	227.2	231.0	245.2	250.4
60°	634.5	217.7	230.5	228.6	215.5	220.7	219.4	221.2	226.1	227.8
62.5°	615.4	200.8	207.0	204.3	199.2	208.2	211.4	207.4	211.2	213.0
65°	566.8	187.2	184.1	182.2	184.4	192.6	199.2	191.0	194.4	200.0
67.5°	486.7	168.6	160.4	162.6	169.4	173.7	182.2	172.9	176.0	185.2
70°	393.6	145.1	137.8	144.0	150.6	159.6	160.9	154.7	161.7	172.1
72.5°	278.5	121.4	116.2	129.0	131.2	143.0	139.9	136.9	146.8	150.3
75°	193.1	97.9	94.9	104.8	112.6	122.8	120.5	124.1	144.8	146.5
77.5°	122.2	76.1	74.2	80.5	91.4	102.6	106.1	146.5	247.4	257.3
80°	70.9	56.8	54.5	59.4	69.0	79.3	102.3	179.8	163.1	161.2
82.5°	39.6	39.1	36.3	37.6	46.1	57.3	144.5	126.6	102.8	106.1
85°	18.6	23.0	19.7	18.9	25.9	67.1	96.6	72.3	48.0	46.9
87.5°	4.9	4.4	4.4	4.9	10.9	57.8	38.4	30.9	18.2	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)