

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: P959935

Luminaire Tested: **NAV-SB1B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959935
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-827-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

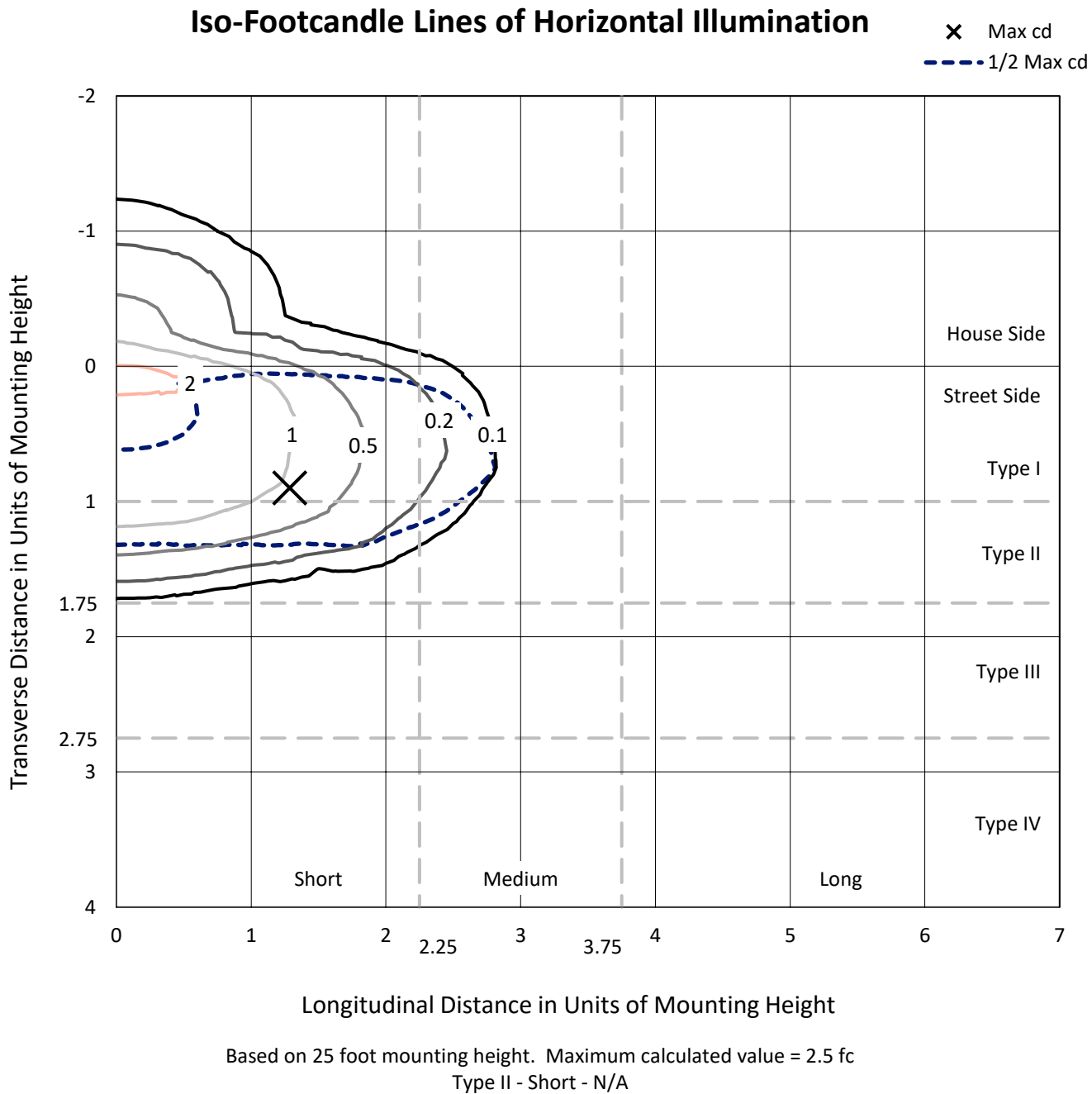
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5106.6 lumens
Efficiency: N/A
Efficacy: 128.3 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

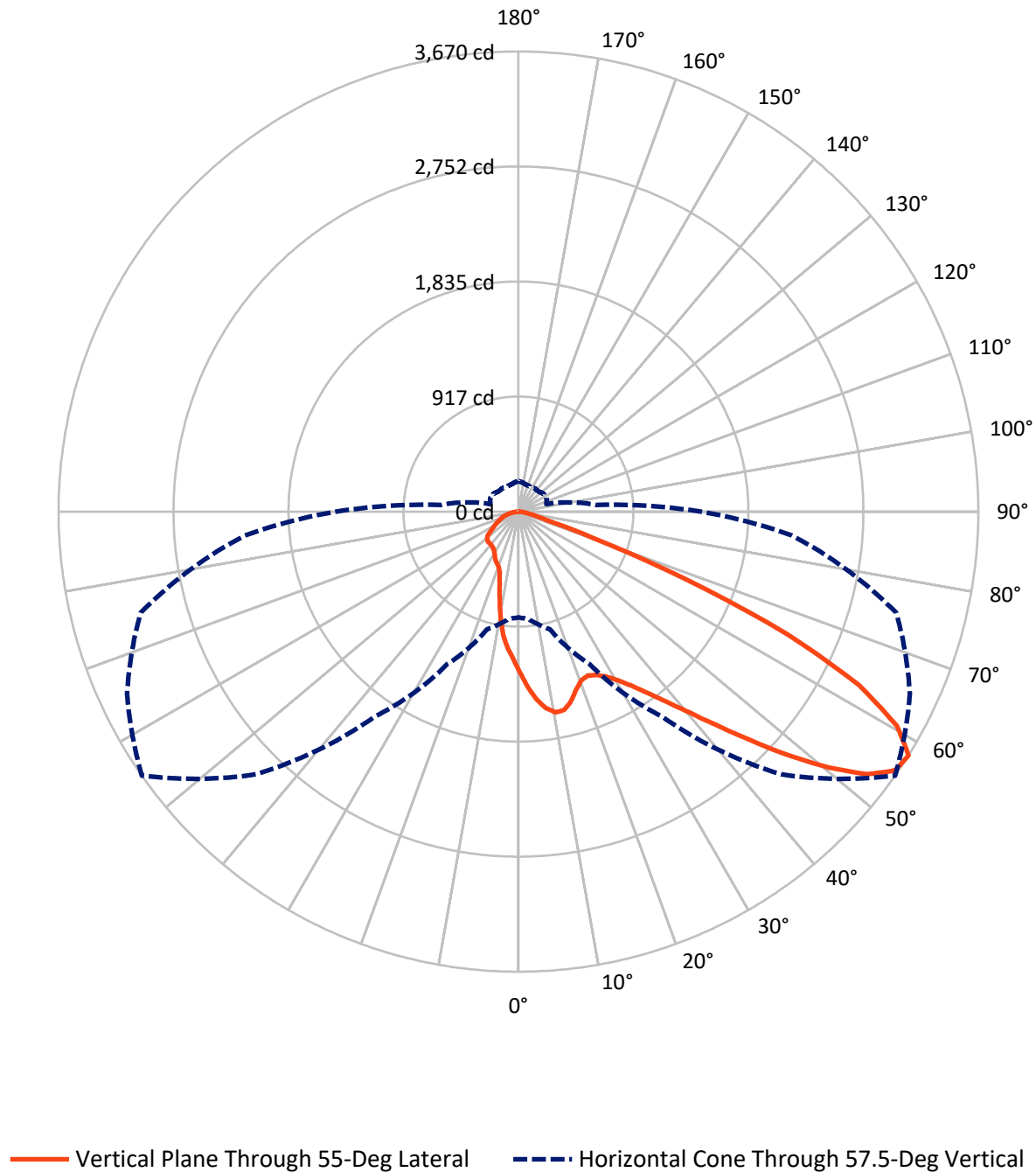


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.0	0.0	924.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4182.6	0.0	4182.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	5106.6	0.0	5106.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	2.3
10°-20°	299.7	5.9
20°-30°	478.2	9.4
30°-40°	757.1	14.8
40°-50°	1158.9	22.7
50°-60°	1241.3	24.3
60°-70°	780.9	15.3
70°-80°	230.9	4.5
80°-90°	40.8	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°	5106.6	100.0
0°-180°	5106.6	100.0

Coefficient of Utilization



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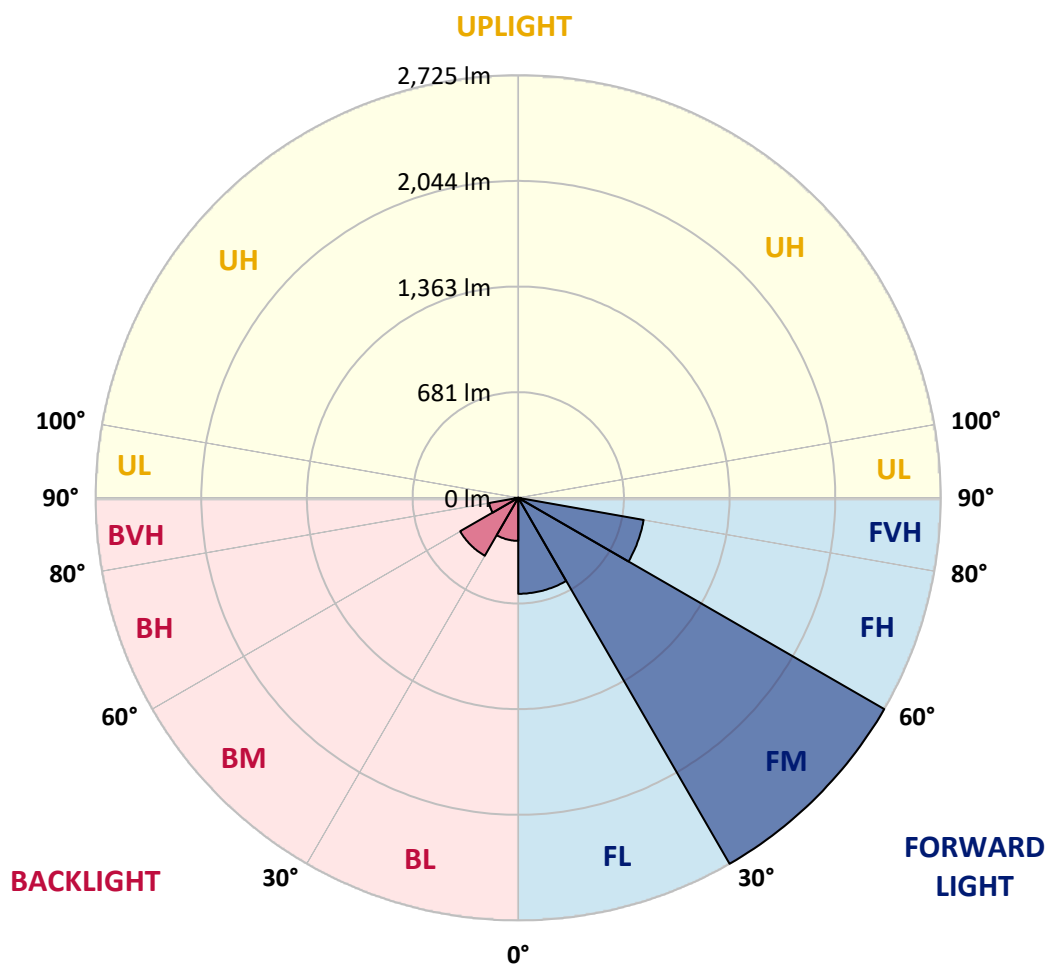
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.9	12.1			
FM	(30°-60°)	2725.4	53.4			
FH	(60°-80°)	821.0	16.1			G1/1800
FVH	(80°-90°)	17.3	0.3			G1/100
BL	(0°-30°)	277.7	5.4	B1/500		
BM	(30°-60°)	431.9	8.5	B1/1000		
BH	(60°-80°)	190.8	3.7	B1/500		G1/500
BVH	(80°-90°)	23.6	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°	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5
2.5°	1468.0	1467.0	1472.8	1452.9	1439.5	1421.3	1397.3	1366.6	1333.6	1298.8	1283.7
5°	1600.2	1591.0	1597.2	1582.3	1567.5	1540.1	1504.5	1454.6	1393.6	1324.2	1287.2
7.5°	1579.4	1573.1	1588.6	1601.9	1612.9	1609.6	1583.4	1531.1	1452.4	1351.6	1298.1
10°	1411.2	1404.1	1426.1	1471.7	1538.7	1597.2	1628.8	1596.3	1512.6	1381.7	1308.6
12.5°	1262.9	1259.5	1274.0	1311.0	1385.4	1497.3	1623.0	1653.3	1575.2	1417.4	1322.9
15°	1199.6	1195.4	1204.6	1223.3	1270.8	1375.1	1570.2	1692.4	1636.7	1458.5	1345.5
17.5°	1185.5	1180.8	1184.8	1194.5	1225.2	1304.6	1490.5	1711.6	1700.9	1504.5	1364.6
20°	1211.4	1207.4	1208.0	1207.4	1228.9	1291.9	1435.0	1704.3	1756.8	1546.7	1383.0
22.5°	1274.0	1267.4	1267.6	1253.7	1265.3	1314.2	1420.5	1684.5	1806.7	1583.6	1397.0
25°	1375.9	1364.0	1366.4	1330.8	1327.6	1363.8	1443.2	1669.2	1856.4	1613.2	1399.6
27.5°	1515.3	1501.8	1494.7	1441.7	1416.2	1434.2	1489.4	1674.4	1903.3	1638.8	1393.1
30°	1689.5	1673.1	1658.7	1583.4	1537.5	1530.8	1561.2	1709.3	1958.8	1665.7	1381.7
32.5°	1903.1	1884.1	1857.7	1757.9	1693.2	1658.7	1654.1	1771.3	2023.8	1700.1	1375.9
35°	2157.3	2132.5	2095.0	1965.8	1884.1	1813.3	1776.6	1860.8	2112.6	1751.8	1382.5
37.5°	2419.2	2391.2	2356.9	2203.2	2102.7	1998.3	1926.1	1982.2	2231.2	1822.0	1399.9
40°	2660.7	2629.3	2597.4	2460.6	2352.7	2227.0	2108.9	2135.9	2376.2	1906.0	1429.5
42.5°	2803.3	2780.0	2767.9	2694.0	2610.6	2483.1	2336.5	2318.0	2539.0	2002.5	1463.3
45°	2796.9	2787.4	2824.9	2855.5	2835.8	2764.9	2603.2	2519.4	2702.4	2086.3	1494.4
47.5°	2647.5	2653.8	2737.6	2909.7	2985.4	3022.3	2906.7	2717.2	2844.5	2148.8	1508.4
50°	2241.0	2246.3	2440.0	2811.2	3024.0	3232.2	3207.9	2910.2	2954.6	2187.1	1505.2
52.5°	1919.2	1922.6	2005.7	2519.2	2896.8	3337.8	3479.4	3092.0	3035.0	2197.7	1487.6
55°	1445.6	1457.4	1550.6	1976.5	2565.7	3254.2	3644.6	3279.5	3086.0	2198.7	1469.0
57.5°	844.5	857.4	972.5	1341.6	1994.1	2962.5	3669.7	3445.8	3120.6	2190.3	1458.0
60°	413.7	419.2	469.3	705.1	1229.7	2400.4	3468.0	3526.3	3139.9	2185.8	1457.4
62.5°	278.8	278.0	280.1	347.9	605.9	1542.2	3047.7	3385.4	3129.5	2168.6	1452.2
65°	239.7	236.8	228.9	244.2	313.9	705.4	2354.7	2964.5	3051.1	2125.6	1416.0
67.5°	207.3	207.5	207.8	203.1	224.2	325.5	1439.0	2335.3	2769.8	1921.8	1276.6
70°	171.6	173.9	175.1	175.1	182.7	213.6	614.3	1600.5	2184.8	1506.9	1028.2
72.5°	156.3	151.3	151.8	149.1	149.1	162.6	247.3	907.3	1376.4	847.7	627.5
75°	127.5	130.7	131.2	129.4	123.3	124.0	146.8	380.7	589.0	351.7	310.2
77.5°	110.1	110.1	111.1	109.8	105.1	93.0	97.9	147.6	200.4	144.1	155.0
80°	88.5	88.1	92.7	95.3	87.9	68.7	62.5	81.6	89.0	63.3	80.6
82.5°	43.0	45.7	63.7	72.6	66.8	49.6	38.2	50.6	47.6	28.0	36.2
85°	25.1	23.8	28.5	40.4	38.2	27.5	18.4	26.4	24.8	14.2	14.6
87.5°	7.9	7.4	5.8	13.7	11.1	7.7	5.0	7.7	6.9	3.2	3.2
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°	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5	1279.5
2.5°	1265.1	1233.9	1202.9	1174.8	1157.5	1146.5	1135.4	1123.0	1118.3	1111.1
5°	1252.3	1192.2	1138.6	1092.3	1050.4	1017.4	984.1	957.2	945.0	953.2
7.5°	1245.0	1157.8	1075.2	990.5	908.9	843.7	786.9	747.1	729.1	733.6
10°	1238.4	1119.0	993.1	859.3	742.1	661.3	603.2	572.9	561.5	563.9
12.5°	1232.3	1075.4	894.1	718.0	593.5	540.1	523.5	523.8	525.8	527.5
15°	1231.2	1023.0	783.5	594.5	513.2	509.7	527.7	539.0	545.1	546.9
17.5°	1229.7	960.1	670.8	510.2	493.6	516.9	533.5	540.9	545.6	545.9
20°	1223.3	880.4	566.8	470.2	489.4	509.5	519.8	525.6	529.5	530.8
22.5°	1203.8	791.7	485.7	452.2	472.5	488.6	500.8	507.4	509.7	511.4
25°	1168.7	692.4	429.8	435.0	449.1	469.3	479.1	480.4	479.7	482.1
27.5°	1122.7	586.1	394.9	411.8	429.8	447.2	452.4	451.7	450.1	452.7
30°	1067.3	490.5	372.8	385.7	410.2	426.1	430.8	429.0	425.8	428.8
32.5°	1008.7	412.4	354.5	367.5	394.1	409.7	414.4	412.6	410.2	412.6
35°	954.1	357.7	337.6	355.4	381.5	396.8	402.8	403.1	403.1	406.0
37.5°	903.8	325.7	323.7	347.7	372.8	386.4	395.1	395.8	384.4	385.2
40°	857.4	312.3	317.3	342.7	364.3	377.5	378.0	348.5	327.6	327.1
42.5°	819.4	309.7	319.2	342.1	358.2	358.7	321.5	298.6	292.7	293.0
45°	783.8	308.8	323.4	342.1	349.2	310.0	284.8	278.8	279.3	281.4
47.5°	743.9	305.7	324.2	337.3	323.4	275.6	268.2	265.6	264.6	265.1
50°	700.4	294.4	314.2	327.9	279.0	260.9	251.5	250.8	252.2	252.9
52.5°	654.5	275.8	296.9	310.7	258.7	247.8	237.6	239.4	245.3	247.1
55°	624.3	254.2	274.3	276.4	244.5	235.7	227.0	231.2	242.1	245.5
57.5°	616.4	231.2	248.5	246.0	226.2	225.2	219.9	223.6	237.3	242.3
60°	614.1	210.6	223.0	221.2	208.6	213.6	212.3	214.1	218.8	220.5
62.5°	595.5	194.3	200.4	197.7	192.7	201.4	204.6	200.6	204.3	206.1
65°	548.6	181.1	178.1	176.3	178.5	186.3	192.7	184.8	188.2	193.5
67.5°	471.0	163.2	155.2	157.3	163.9	168.2	176.3	167.4	170.3	179.3
70°	380.9	140.4	133.4	139.4	145.8	154.5	155.8	149.6	156.5	166.6
72.5°	269.6	117.5	112.4	124.8	127.0	138.4	135.4	132.5	142.1	145.4
75°	186.9	94.8	91.8	101.4	109.1	118.8	116.6	120.1	140.2	141.8
77.5°	118.3	73.7	71.9	77.9	88.5	99.2	102.7	141.8	239.4	249.0
80°	68.7	54.9	52.8	57.5	66.8	76.8	99.0	173.9	157.8	156.0
82.5°	38.2	37.7	35.2	36.4	44.6	55.5	139.9	122.5	99.5	102.7
85°	17.9	22.1	19.0	18.2	25.1	65.0	93.5	69.9	46.4	45.4
87.5°	4.7	4.2	4.2	4.7	10.6	56.0	37.2	29.8	17.7	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)