

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: P959346

Luminaire Tested: **NAV-SB1A-750-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959346
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-SB1A-750-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

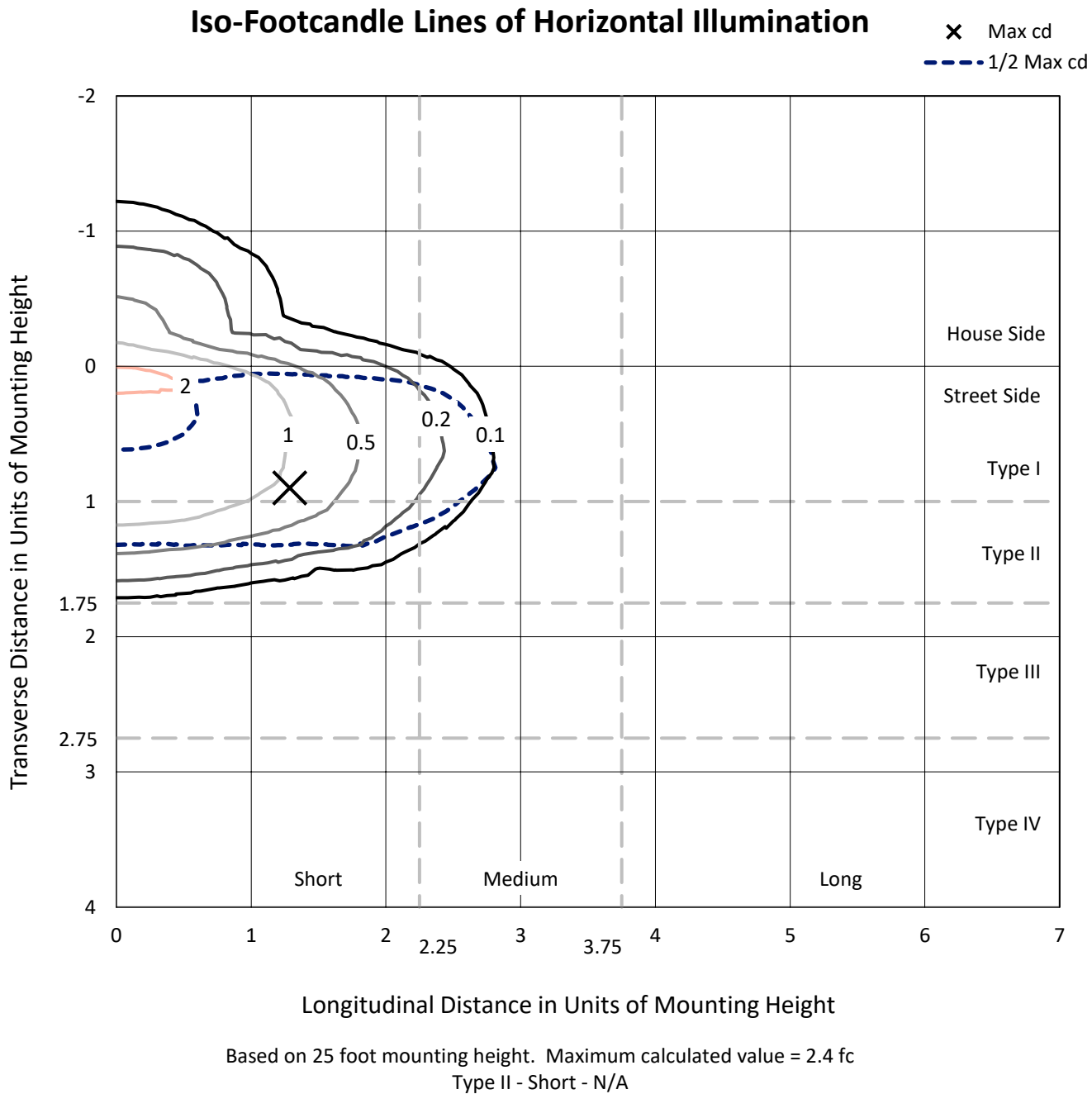
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4948.7 lumens
Efficiency: N/A
Efficacy: 160.2 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): 30.9
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

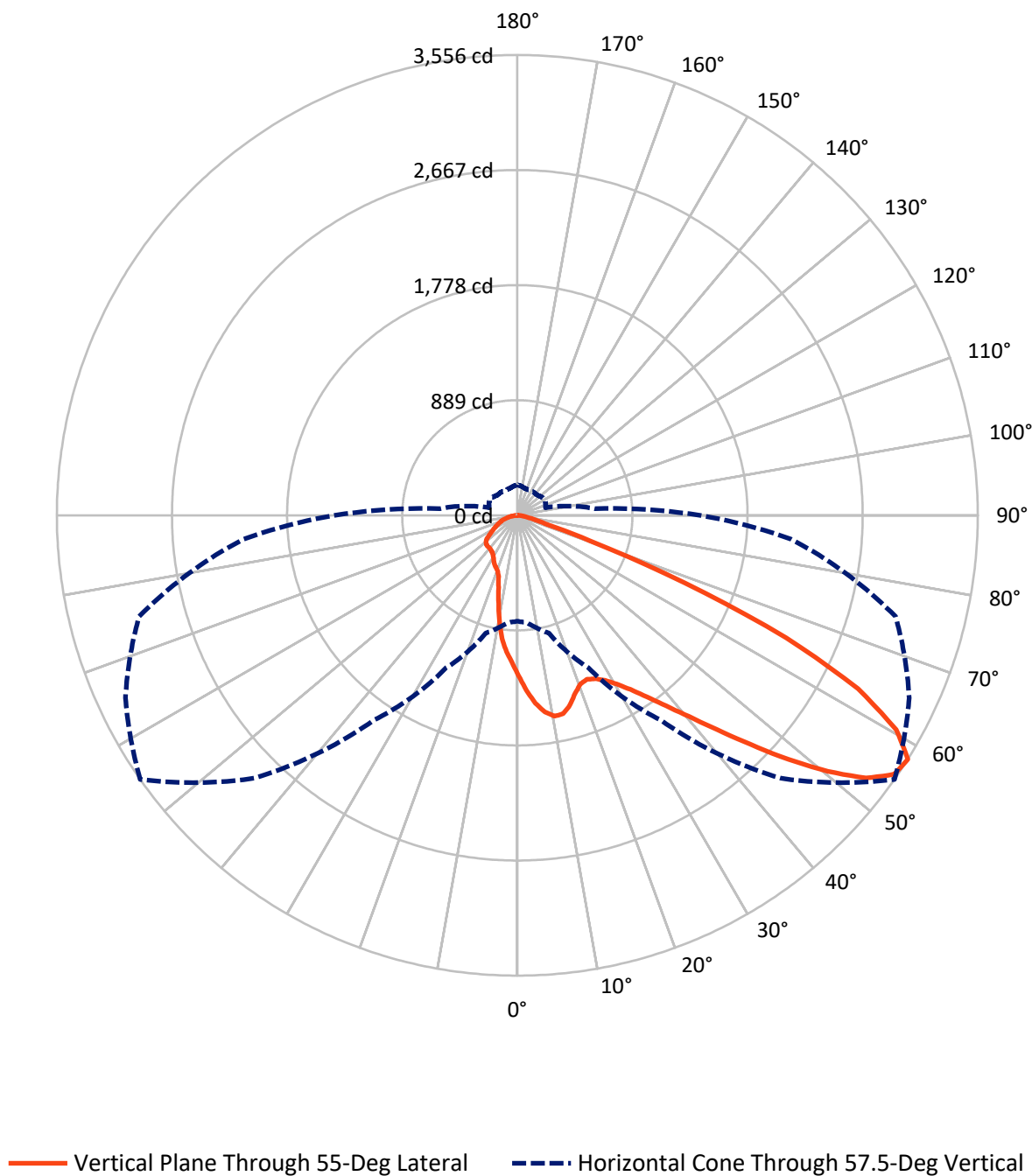


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	895.4	0.0	895.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4053.2	0.0	4053.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	4948.7	0.0	4948.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	2.3
10°-20°	290.4	5.9
20°-30°	463.4	9.4
30°-40°	733.7	14.8
40°-50°	1123.1	22.7
50°-60°	1202.9	24.3
60°-70°	756.7	15.3
70°-80°	223.8	4.5
80°-90°	39.6	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°	4948.7	100.0
0°-180°	4948.7	100.0

Coefficient of Utilization



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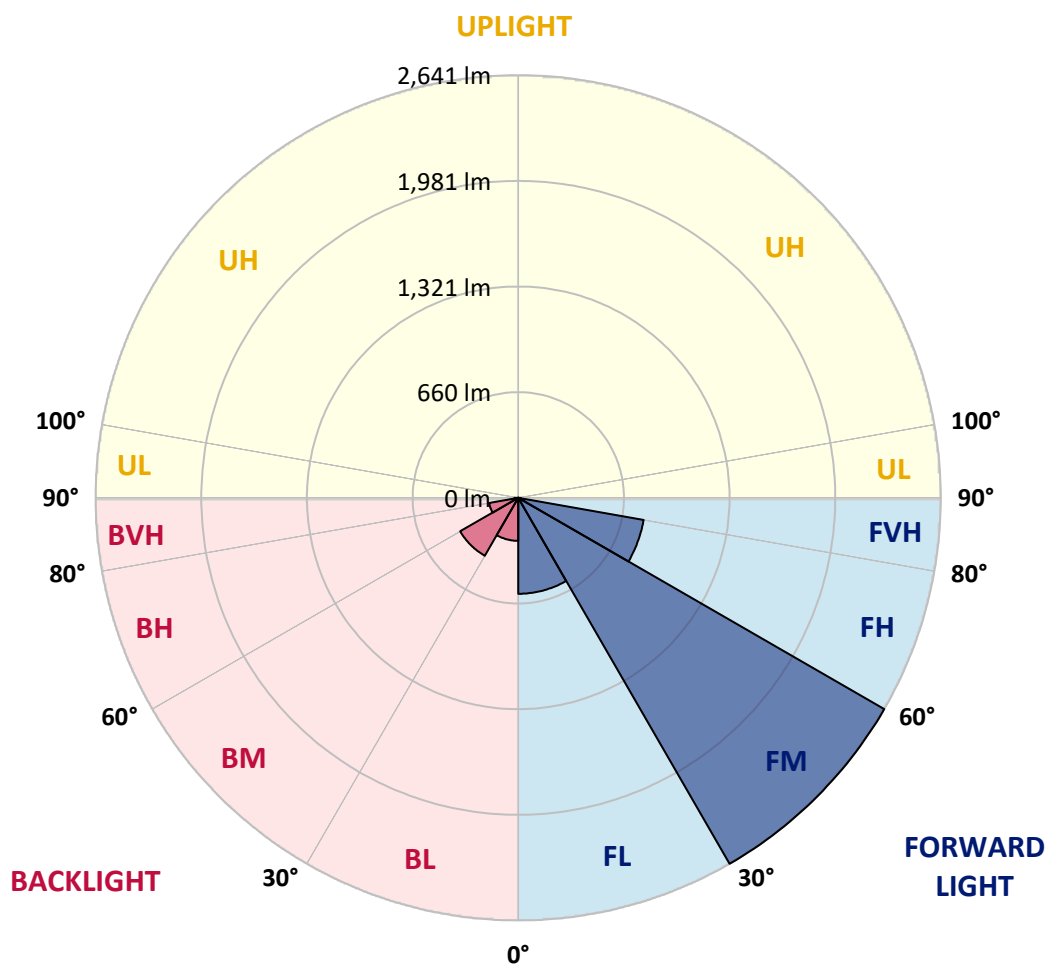
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	599.8	12.1			
FM	(30°-60°)	2641.2	53.4			
FH	(60°-80°)	795.6	16.1			G1/1800
FVH	(80°-90°)	16.7	0.3			G1/100
BL	(0°-30°)	269.1	5.4	B1/500		
BM	(30°-60°)	418.5	8.5	B1/1000		
BH	(60°-80°)	184.9	3.7	B1/500		G1/500
BVH	(80°-90°)	22.8	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1422.6	1421.6	1427.2	1408.0	1395.0	1377.4	1354.1	1324.4	1292.4	1258.7	1244.0
5°	1550.8	1541.9	1547.7	1533.4	1519.0	1492.5	1458.0	1409.6	1350.5	1283.2	1247.4
7.5°	1530.6	1524.5	1539.6	1552.4	1563.1	1559.7	1534.4	1483.8	1407.5	1309.8	1257.9
10°	1367.7	1360.7	1382.0	1426.2	1491.2	1547.7	1578.4	1546.9	1465.9	1339.0	1268.1
12.5°	1223.8	1220.6	1234.6	1270.4	1342.5	1451.0	1572.9	1602.3	1526.5	1373.5	1282.0
15°	1162.5	1158.4	1167.4	1185.5	1231.5	1332.6	1521.6	1640.1	1586.1	1413.5	1303.9
17.5°	1148.9	1144.3	1148.1	1157.6	1187.3	1264.3	1444.4	1658.8	1648.3	1458.0	1322.4
20°	1173.9	1170.1	1170.7	1170.1	1190.8	1252.0	1390.6	1651.6	1702.5	1498.9	1340.3
22.5°	1234.6	1228.3	1228.5	1214.9	1226.2	1273.5	1376.6	1632.4	1750.9	1534.7	1353.8
25°	1333.3	1321.8	1324.2	1289.7	1286.6	1321.6	1398.6	1617.6	1799.0	1563.3	1356.4
27.5°	1468.4	1455.4	1448.5	1397.1	1372.5	1389.9	1443.4	1622.7	1844.5	1588.1	1350.0
30°	1637.2	1621.4	1607.3	1534.4	1489.9	1483.5	1512.9	1656.5	1898.2	1614.3	1339.0
32.5°	1844.3	1825.8	1800.2	1703.6	1640.8	1607.3	1603.0	1716.6	1961.1	1647.5	1333.3
35°	2090.6	2066.6	2030.2	1905.2	1825.8	1757.3	1721.7	1803.3	2047.3	1697.6	1339.8
37.5°	2344.4	2317.2	2284.0	2135.1	2037.6	1936.6	1866.5	1921.0	2162.2	1765.7	1356.7
40°	2578.5	2548.0	2517.1	2384.6	2279.9	2158.1	2043.7	2069.9	2302.7	1847.0	1385.3
42.5°	2716.6	2694.1	2682.3	2610.7	2529.8	2406.3	2264.3	2246.4	2460.5	1940.7	1418.1
45°	2710.5	2701.3	2737.6	2767.3	2748.0	2679.6	2522.7	2441.5	2618.9	2021.8	1448.2
47.5°	2565.7	2571.8	2652.9	2819.7	2893.2	2928.9	2816.9	2633.2	2756.5	2082.4	1461.8
50°	2171.7	2176.8	2364.6	2724.2	2930.5	3132.3	3108.8	2820.2	2863.2	2119.5	1458.7
52.5°	1859.9	1863.1	1943.7	2441.3	2807.2	3234.7	3371.7	2996.5	2941.2	2129.7	1441.6
55°	1400.9	1412.4	1502.8	1915.3	2486.3	3153.5	3531.9	3178.1	2990.6	2130.8	1423.6
57.5°	818.4	831.0	942.5	1300.1	1932.5	2870.8	3556.2	3339.2	3024.1	2122.6	1413.0
60°	400.9	406.2	454.9	683.3	1191.7	2326.2	3360.8	3417.4	3042.8	2118.3	1412.4
62.5°	270.2	269.4	271.4	337.2	587.1	1494.6	2953.5	3280.7	3032.8	2101.6	1407.3
65°	232.3	229.5	221.8	236.7	304.2	683.6	2282.0	2872.9	2956.8	2059.9	1372.3
67.5°	200.8	201.1	201.3	196.7	217.2	315.4	1394.5	2263.0	2684.1	1862.4	1237.2
70°	166.3	168.6	169.6	169.6	177.0	206.9	595.3	1551.0	2117.2	1460.2	996.4
72.5°	151.5	146.6	147.1	144.5	144.5	157.5	239.7	879.2	1333.8	821.4	608.1
75°	123.5	126.6	127.1	125.4	119.5	120.2	142.3	368.9	570.7	340.7	300.6
77.5°	106.7	106.7	107.7	106.4	101.8	90.1	94.9	143.0	194.1	139.7	150.2
80°	85.7	85.5	89.8	92.4	85.2	66.5	60.7	79.0	86.2	61.4	78.0
82.5°	41.7	44.3	61.7	70.3	64.7	48.1	37.1	49.1	46.0	27.2	35.1
85°	24.3	23.1	27.7	39.2	37.1	26.6	17.9	25.6	24.1	13.8	14.0
87.5°	7.7	7.2	5.6	13.3	10.8	7.4	4.8	7.4	6.7	3.1	3.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1225.9	1195.8	1165.8	1138.5	1121.8	1111.0	1100.3	1088.2	1083.6	1076.8
5°	1213.6	1155.3	1103.4	1058.6	1017.9	985.9	953.8	927.6	915.8	923.8
7.5°	1206.4	1122.1	1042.0	959.8	880.8	817.6	762.6	724.0	706.6	710.9
10°	1200.1	1084.4	962.4	832.7	719.1	640.8	584.6	555.1	544.2	546.4
12.5°	1194.2	1042.2	866.4	695.9	575.1	523.5	507.3	507.6	509.6	511.2
15°	1193.2	991.3	759.3	576.2	497.3	493.9	511.4	522.4	528.3	530.0
17.5°	1191.7	930.4	650.1	494.5	478.4	500.9	517.0	524.2	528.8	529.0
20°	1185.5	853.2	549.3	455.6	474.3	493.7	503.7	509.3	513.2	514.4
22.5°	1166.6	767.2	470.7	438.2	458.0	473.6	485.3	491.7	493.9	495.5
25°	1132.5	671.1	416.5	421.6	435.1	454.9	464.3	465.6	464.8	467.1
27.5°	1088.0	568.0	382.7	399.1	416.5	433.4	438.5	437.7	436.1	438.7
30°	1034.3	475.3	361.2	373.7	397.6	412.9	417.5	415.7	412.7	415.4
32.5°	977.5	399.6	343.6	356.1	381.9	397.1	401.6	399.9	397.6	399.9
35°	924.6	346.7	327.2	344.3	369.7	384.5	390.4	390.6	390.6	393.5
37.5°	876.0	315.7	313.6	336.9	361.2	374.5	382.9	383.5	372.5	373.2
40°	831.0	302.7	307.5	332.1	353.0	365.8	366.3	337.7	317.4	316.9
42.5°	794.1	300.1	309.2	331.6	347.2	347.7	311.6	289.4	283.7	283.9
45°	759.5	299.3	313.3	331.6	338.5	300.3	276.0	270.2	270.7	272.8
47.5°	720.9	296.2	314.2	327.0	313.3	267.1	259.9	257.4	256.4	256.9
50°	678.7	285.3	304.4	317.8	270.4	252.8	243.8	243.0	244.4	245.1
52.5°	634.2	267.3	287.8	301.1	250.7	240.3	230.2	232.1	237.7	239.4
55°	605.1	246.4	265.8	267.8	236.9	228.5	220.0	224.1	234.6	237.9
57.5°	597.4	224.1	240.8	238.4	219.2	218.2	213.1	216.7	230.0	234.8
60°	595.0	204.2	216.2	214.4	202.1	206.9	205.7	207.5	212.1	213.6
62.5°	577.2	188.3	194.1	191.6	186.8	195.2	198.2	194.4	198.0	199.8
65°	531.6	175.5	172.7	170.9	172.9	180.6	186.8	179.1	182.4	187.5
67.5°	456.4	158.1	150.5	152.5	158.9	163.0	170.9	162.2	165.0	173.7
70°	369.2	136.1	129.1	135.1	141.2	149.6	151.0	145.0	151.7	161.4
72.5°	261.2	113.9	109.0	121.1	123.1	134.1	131.2	128.4	137.7	140.9
75°	181.1	91.8	89.1	98.2	105.7	115.1	113.1	116.4	135.8	137.4
77.5°	114.6	71.3	69.6	75.4	85.7	96.1	99.5	137.4	232.1	241.3
80°	66.5	53.2	51.1	55.8	64.7	74.4	95.9	168.6	153.0	151.2
82.5°	37.1	36.6	34.0	35.3	43.3	53.7	135.6	118.7	96.5	99.5
85°	17.4	21.5	18.4	17.6	24.3	62.9	90.6	67.8	45.0	44.0
87.5°	4.6	4.1	4.1	4.6	10.2	54.2	36.1	28.9	17.1	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)