

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: P963646

Luminaire Tested: **NAV-SB3A-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

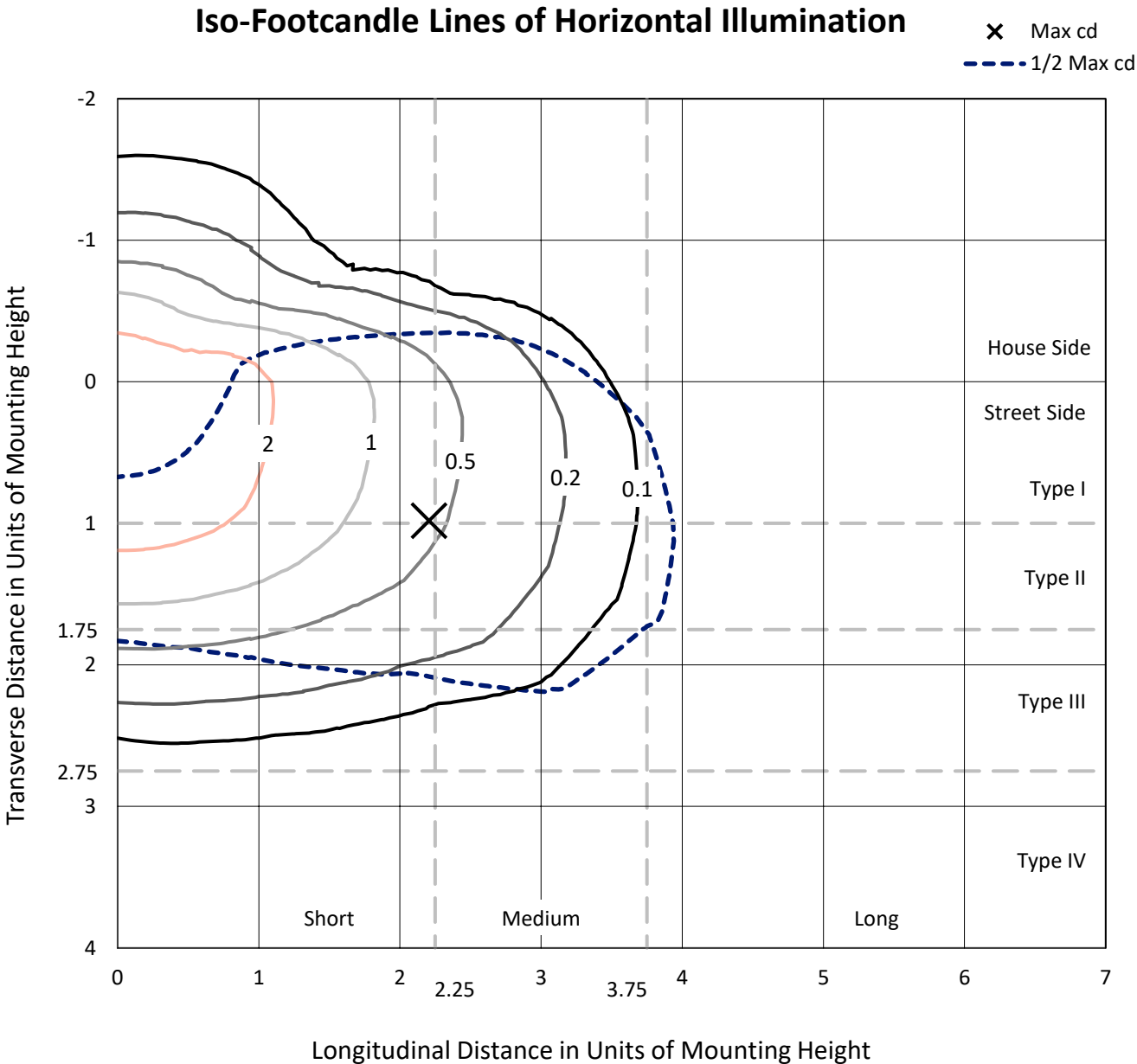
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12003.8 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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



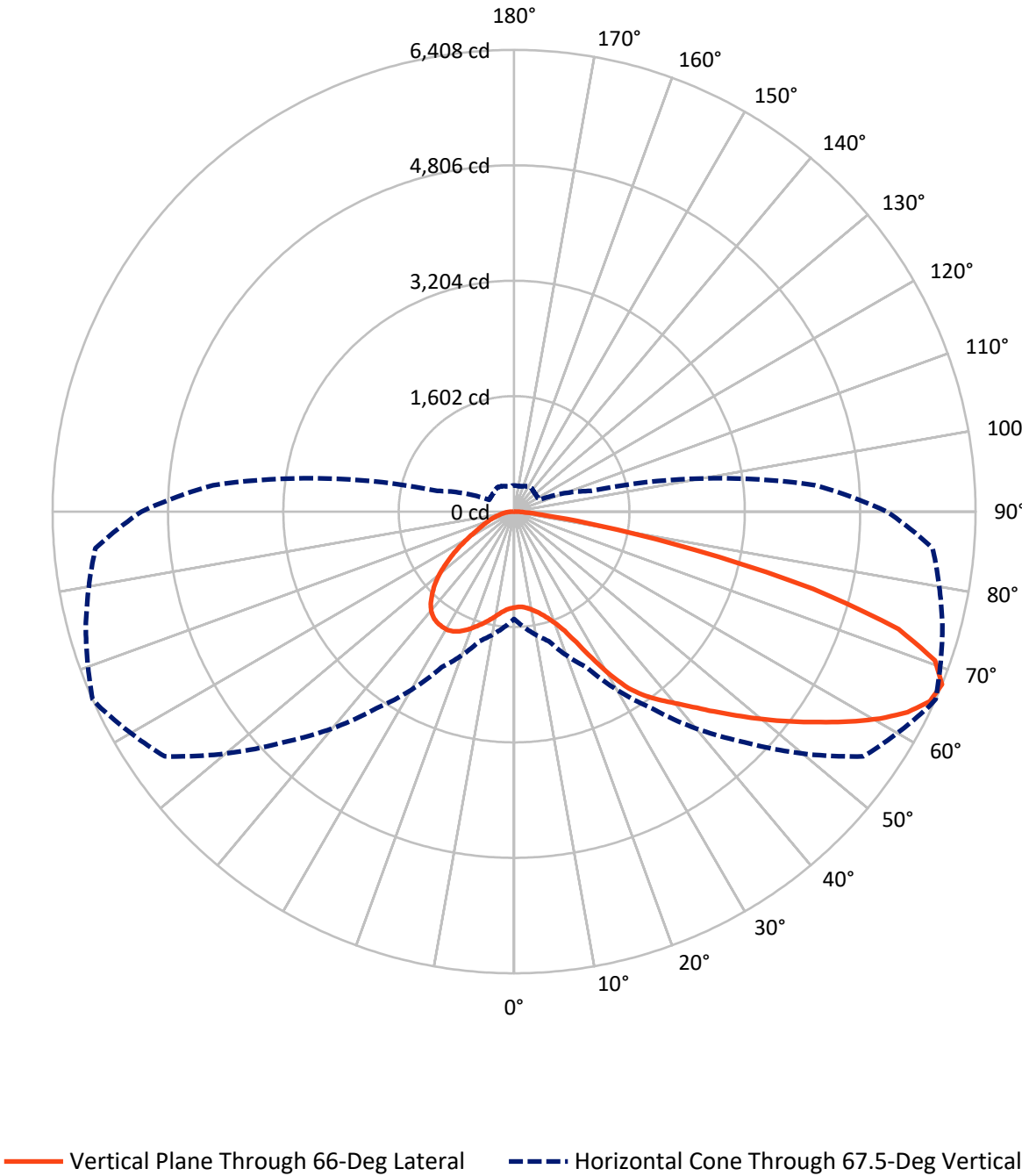
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Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.7	0.0	2984.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9019.1	0.0	9019.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	12003.8	0.0	12003.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	1.1
10°-20°	436.1	3.6
20°-30°	840.6	7.0
30°-40°	1473.9	12.3
40°-50°	2191.1	18.3
50°-60°	2777.5	23.1
60°-70°	2717.7	22.6
70°-80°	1296.4	10.8
80°-90°	138.5	1.2
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°	12003.8	100.0
0°-180°	12003.8	100.0

Coefficient of Utilization



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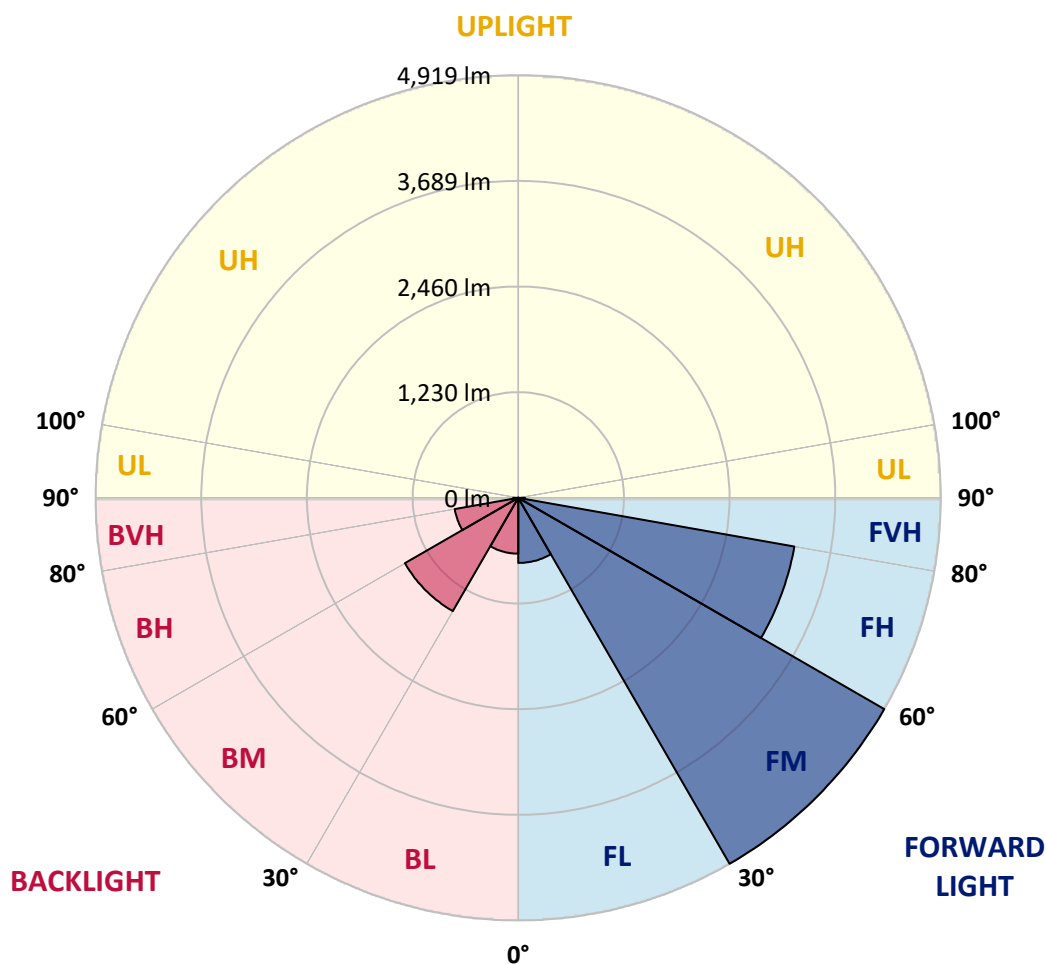
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	758.5	6.3			
FM	(30°-60°)	4919.0	41.0			
FH	(60°-80°)	3263.0	27.2			G2/5000
FVH	(80°-90°)	78.5	0.7			G1/100
BL	(0°-30°)	650.2	5.4	B2/1000		
BM	(30°-60°)	1523.4	12.7	B2/2500		
BH	(60°-80°)	751.1	6.3	B2/1000		G2/1000
BVH	(80°-90°)	60.0	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4
2.5°	1317.5	1325.1	1323.2	1320.0	1319.4	1320.6	1322.6	1324.4	1323.8	1327.0	1332.0
5°	1313.7	1321.3	1320.6	1320.6	1323.2	1328.2	1331.4	1334.6	1331.4	1335.2	1342.1
7.5°	1316.2	1321.9	1324.4	1327.0	1333.3	1342.7	1350.3	1357.2	1353.4	1357.8	1366.7
10°	1348.4	1352.8	1355.4	1355.4	1359.8	1370.5	1378.0	1390.6	1387.5	1394.4	1405.8
12.5°	1407.0	1411.4	1411.4	1409.0	1412.1	1419.0	1421.6	1435.4	1429.8	1441.1	1452.4
15°	1479.0	1487.8	1480.8	1476.4	1477.7	1484.6	1484.0	1494.8	1489.0	1498.6	1508.6
17.5°	1558.4	1569.8	1558.4	1557.8	1555.2	1562.8	1563.4	1573.0	1562.8	1569.8	1576.8
20°	1652.4	1668.2	1658.7	1661.8	1656.2	1659.4	1662.4	1676.4	1660.6	1665.6	1663.8
22.5°	1784.8	1803.8	1793.6	1805.6	1801.8	1799.4	1798.7	1823.3	1798.7	1800.6	1782.3
25°	1977.8	2000.5	1982.9	1999.3	1999.3	2007.5	2016.9	2048.5	2007.5	1995.5	1948.2
27.5°	2262.9	2285.6	2250.9	2261.0	2257.9	2278.1	2267.9	2346.1	2302.0	2282.5	2187.2
30°	2606.0	2646.3	2580.7	2578.3	2575.1	2607.3	2621.7	2673.5	2628.7	2609.1	2494.3
32.5°	2976.8	3019.1	2940.9	2918.2	2906.2	2925.8	2913.8	2955.4	2924.5	2894.2	2752.3
35°	3369.1	3410.8	3336.4	3292.2	3244.2	3203.2	3160.4	3171.0	3142.0	3096.0	2949.1
37.5°	3739.9	3816.3	3737.5	3690.1	3601.8	3521.8	3401.9	3352.1	3325.0	3282.8	3134.6
40°	4117.7	4161.3	4101.3	4060.9	3965.1	3839.6	3647.9	3542.6	3506.0	3465.0	3339.4
42.5°	4395.9	4437.5	4405.3	4377.6	4302.5	4156.9	3908.9	3777.1	3724.2	3678.1	3571.6
45°	4616.6	4647.6	4627.4	4637.4	4605.2	4464.0	4179.5	4028.9	3973.9	3917.9	3833.9
47.5°	4705.6	4738.4	4770.6	4830.4	4885.3	4781.2	4470.3	4301.3	4243.3	4185.9	4103.3
50°	4695.4	4728.8	4822.2	4949.6	5119.9	5085.2	4776.8	4591.4	4537.8	4472.2	4395.9
52.5°	4614.8	4652.6	4772.4	4984.3	5255.5	5312.9	5089.0	4891.0	4840.6	4762.4	4686.0
55°	4402.8	4425.5	4605.2	4905.4	5287.7	5471.9	5394.9	5210.1	5159.6	5050.5	4967.3
57.5°	4009.9	4042.7	4304.4	4693.0	5206.9	5579.7	5663.5	5545.7	5497.1	5340.0	5253.0
60°	3497.2	3549.5	3849.1	4336.0	5001.4	5579.1	5907.6	5875.5	5835.1	5625.1	5534.3
62.5°	2916.9	2977.4	3265.6	3831.4	4641.8	5420.7	6060.2	6151.7	6130.9	5888.1	5772.1
65°	2240.2	2281.9	2568.8	3178.6	4082.5	5080.8	6077.9	6340.2	6344.0	6088.0	5896.3
67.5°	1491.6	1611.4	1860.5	2385.3	3333.2	4525.2	5922.8	6371.2	6407.8	6156.8	5833.9
70°	727.9	885.5	1129.6	1550.2	2385.3	3673.1	5517.3	6117.6	6199.0	5956.2	5461.7
72.5°	302.1	353.2	486.3	765.1	1369.2	2478.6	4702.4	5430.2	5580.9	5277.6	4592.0
75°	203.7	220.8	278.1	392.3	623.7	1222.3	3391.2	4049.0	4291.8	3985.9	3258.2
77.5°	157.0	167.8	202.4	274.4	370.8	462.3	1815.1	2440.1	2565.7	2375.1	1695.2
80°	123.6	131.8	151.4	200.0	263.0	247.2	618.7	1105.6	1178.1	988.3	544.9
82.5°	107.2	110.4	108.4	135.6	174.7	144.4	203.1	408.1	450.3	326.7	177.8
85°	77.6	86.4	90.2	83.8	92.7	73.2	83.2	144.4	159.0	141.9	100.2
87.5°	31.6	46.6	57.4	54.2	34.0	20.8	25.8	42.2	48.6	53.0	32.8
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°	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4	1331.4
2.5°	1332.6	1337.0	1340.2	1344.0	1346.5	1350.3	1357.8	1362.3	1362.9	1366.0	1365.4
5°	1344.6	1350.9	1357.8	1368.0	1379.3	1388.8	1403.2	1413.4	1417.2	1420.3	1419.6
7.5°	1370.5	1379.3	1391.9	1409.6	1426.0	1438.6	1456.2	1468.2	1480.2	1484.6	1485.2
10°	1409.0	1421.6	1439.8	1463.8	1481.4	1497.8	1516.2	1526.2	1538.2	1543.2	1545.8
12.5°	1456.8	1470.2	1494.1	1527.6	1544.0	1555.2	1561.6	1559.0	1561.6	1566.0	1567.2
15°	1511.8	1526.2	1553.4	1589.4	1600.6	1590.6	1576.8	1564.1	1562.2	1563.4	1567.8
17.5°	1576.8	1587.4	1619.0	1649.2	1641.0	1599.4	1569.2	1549.0	1538.8	1535.8	1540.2
20°	1667.6	1667.6	1693.4	1712.3	1657.4	1586.8	1539.6	1506.7	1485.9	1477.0	1475.2
22.5°	1777.9	1767.8	1784.2	1771.0	1654.2	1551.4	1485.9	1429.2	1397.6	1385.0	1383.1
25°	1917.9	1905.9	1901.5	1819.5	1631.6	1495.4	1388.8	1320.0	1292.3	1285.4	1286.6
27.5°	2129.2	2098.9	2041.5	1846.0	1590.0	1407.0	1275.2	1211.6	1195.8	1196.4	1198.3
30°	2410.5	2349.9	2209.3	1850.4	1521.8	1282.2	1159.2	1113.8	1106.2	1109.4	1120.1
32.5°	2670.9	2613.5	2380.9	1830.2	1417.2	1159.8	1055.1	1024.9	1013.5	1017.3	1022.3
35°	2875.3	2859.5	2539.7	1801.8	1288.5	1045.1	961.8	935.9	913.9	908.9	912.6
37.5°	3068.2	3062.0	2659.0	1762.2	1161.1	963.7	886.7	852.7	820.5	802.9	803.5
40°	3280.2	3273.8	2737.2	1701.0	1048.2	893.1	819.3	774.5	734.7	702.5	705.7
42.5°	3518.6	3481.4	2774.4	1613.2	952.3	833.1	764.3	703.9	651.5	621.9	623.7
45°	3779.1	3695.2	2773.8	1501.6	871.6	778.3	705.7	619.9	571.4	543.7	542.4
47.5°	4055.3	3899.5	2739.7	1378.0	793.5	717.7	614.9	549.3	517.1	500.1	496.3
50°	4340.4	4090.7	2681.7	1236.1	713.3	648.9	558.1	513.4	488.8	473.0	467.3
52.5°	4608.4	4264.1	2611.7	1075.3	631.9	582.1	532.9	498.3	472.4	454.7	447.1
55°	4857.6	4413.5	2512.7	910.7	565.7	537.3	520.9	491.9	462.3	441.5	433.3
57.5°	5078.9	4510.6	2341.7	756.1	518.4	506.5	508.3	481.2	447.1	429.5	418.1
60°	5263.1	4582.0	2088.8	613.1	479.9	476.2	488.8	461.0	421.3	401.1	392.3
62.5°	5373.5	4580.6	1778.6	502.0	447.1	448.4	462.9	435.8	395.4	376.5	370.8
65°	5364.0	4468.4	1438.0	429.5	415.6	416.9	435.8	408.1	374.0	362.6	362.0
67.5°	5174.1	4194.7	1103.1	382.2	380.9	386.6	408.7	389.1	360.8	359.5	361.4
70°	4660.2	3626.4	794.7	344.4	345.0	353.2	382.2	377.2	353.8	356.3	355.7
72.5°	3736.8	2764.9	533.5	304.6	305.2	318.5	357.0	367.7	346.9	380.3	385.4
75°	2488.7	1724.3	343.1	262.4	263.0	280.0	334.9	349.4	328.0	379.0	382.2
77.5°	1195.8	775.1	248.5	220.8	220.8	236.5	289.5	312.8	279.4	294.5	269.9
80°	413.1	291.4	195.5	177.8	174.0	184.8	244.1	271.2	240.9	222.0	208.1
82.5°	162.7	151.4	157.0	138.2	125.5	132.4	189.8	223.9	177.2	160.2	159.6
85°	93.4	98.4	111.0	91.4	72.6	81.4	139.4	160.8	133.7	118.0	120.4
87.5°	25.2	34.6	51.0	47.3	32.8	34.6	66.2	89.0	77.0	59.2	61.2
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)