

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: P960944

Luminaire Tested: **NAV-SB1D-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-750-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11186.9 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 79.6
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



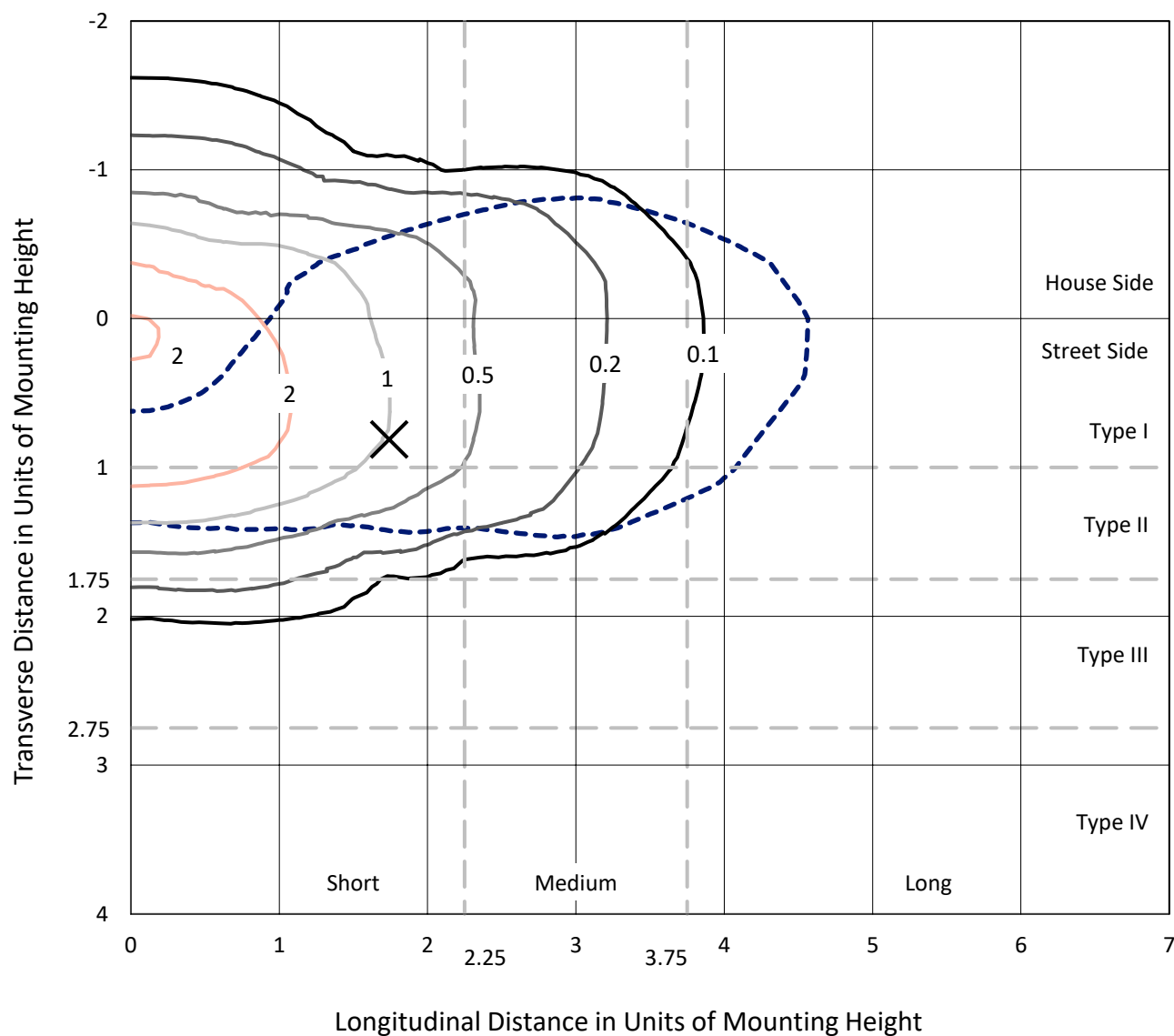
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

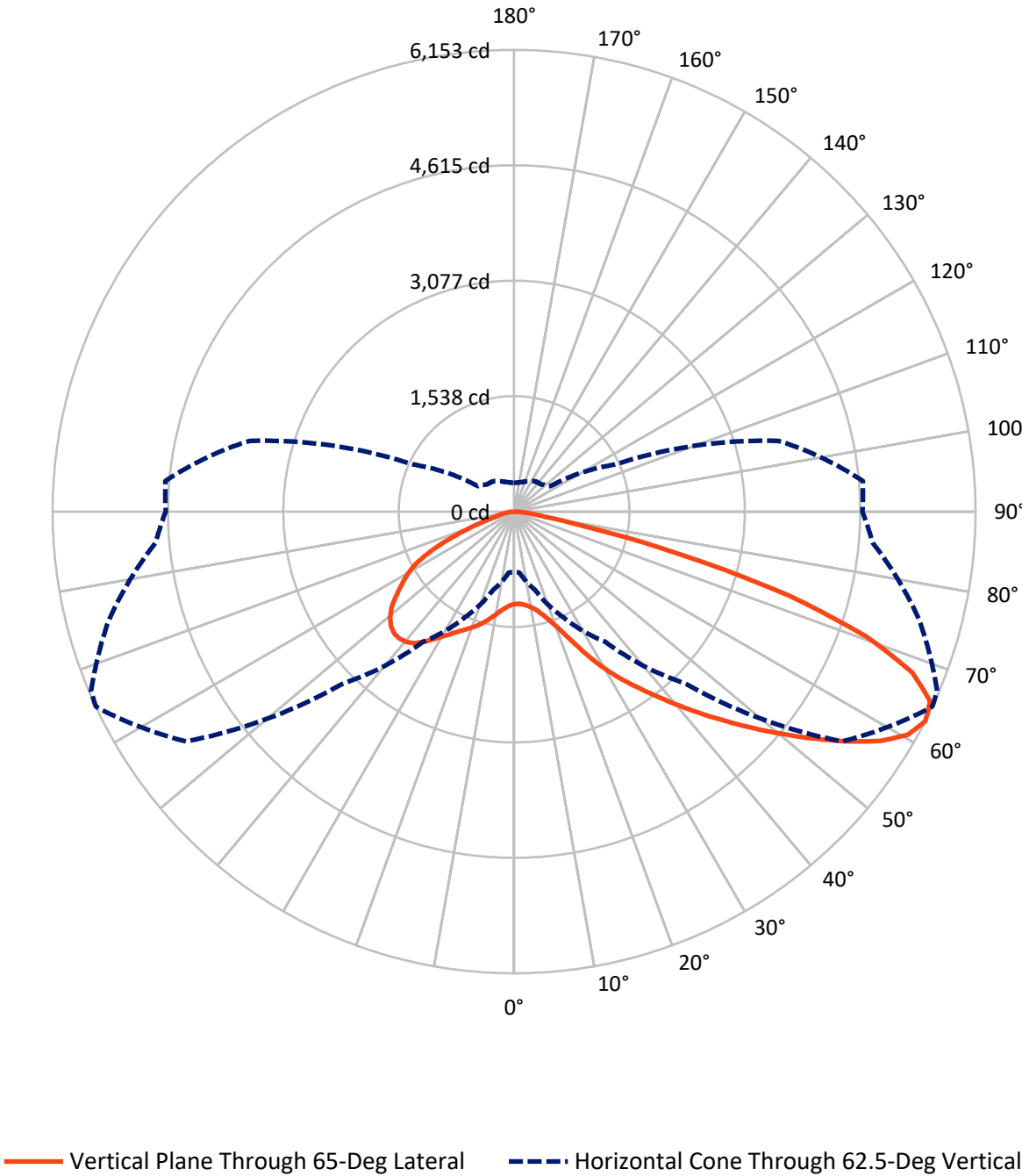


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3530.1	0.0	3530.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7656.8	0.0	7656.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	11186.9	0.0	11186.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	1.1
10°-20°	416.8	3.7
20°-30°	845.1	7.6
30°-40°	1462.4	13.1
40°-50°	2213.0	19.8
50°-60°	2594.6	23.2
60°-70°	2175.3	19.4
70°-80°	1200.9	10.7
80°-90°	156.0	1.4
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°	11186.9	100.0
0°-180°	11186.9	100.0

Coefficient of Utilization



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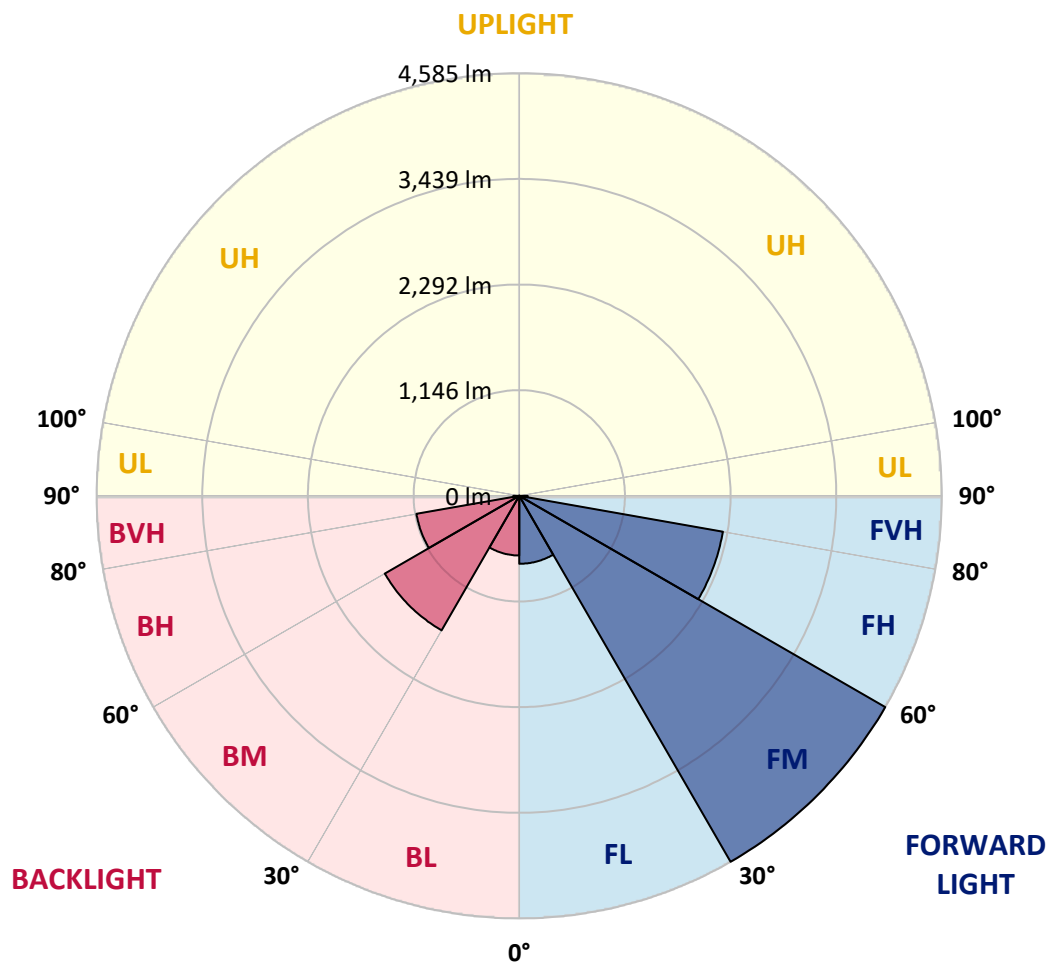
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.4	6.6			
FM	(30°-60°)	4584.7	41.0			
FH	(60°-80°)	2243.8	20.1			G2/5000
FVH	(80°-90°)	90.9	0.8			G1/100
BL	(0°-30°)	647.4	5.8	B2/1000		
BM	(30°-60°)	1685.2	15.1	B2/2500		
BH	(60°-80°)	1132.4	10.1	B3/2500		G3/2500
BVH	(80°-90°)	65.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8
2.5°	1224.6	1221.2	1224.1	1224.1	1225.2	1224.6	1228.7	1229.8	1231.5	1235.0	1235.0
5°	1212.5	1211.9	1217.1	1221.7	1226.3	1230.4	1235.6	1243.2	1244.4	1248.4	1253.7
7.5°	1208.4	1204.9	1213.0	1218.8	1229.8	1239.7	1253.7	1266.4	1271.6	1273.4	1283.2
10°	1239.7	1233.9	1241.5	1245.0	1254.2	1264.1	1280.3	1300.6	1306.5	1313.4	1324.4
12.5°	1293.1	1286.7	1297.8	1303.0	1311.7	1320.4	1331.4	1351.2	1354.0	1366.8	1377.3
15°	1366.2	1358.6	1365.6	1372.1	1386.5	1394.7	1405.7	1424.9	1424.9	1434.7	1442.3
17.5°	1465.4	1455.6	1460.8	1463.2	1472.4	1484.6	1503.2	1520.1	1528.8	1525.3	1514.8
20°	1613.5	1601.3	1601.3	1589.7	1586.2	1596.0	1620.4	1643.7	1652.9	1635.0	1609.5
22.5°	1835.8	1818.4	1808.5	1769.0	1753.4	1754.5	1778.9	1807.3	1814.9	1783.0	1725.5
25°	2118.4	2091.1	2077.8	2019.8	1984.3	1953.5	1972.7	2009.3	2019.8	1980.3	1887.4
27.5°	2401.1	2402.8	2390.0	2320.4	2261.8	2205.5	2195.7	2233.9	2245.0	2200.3	2085.4
30°	2797.4	2756.2	2731.9	2648.3	2564.8	2485.8	2445.1	2460.8	2463.8	2410.4	2276.8
32.5°	3139.3	3128.9	3076.6	3003.5	2896.1	2772.5	2704.6	2679.7	2675.0	2599.0	2440.5
35°	3528.8	3522.9	3467.8	3380.8	3264.7	3092.8	2970.4	2899.0	2893.3	2786.5	2602.5
37.5°	3924.6	3924.6	3870.6	3775.4	3655.3	3440.5	3254.3	3141.0	3122.5	2983.2	2767.3
40°	4240.3	4221.2	4231.0	4191.0	4053.5	3825.3	3569.4	3405.2	3380.1	3213.1	2942.6
42.5°	4419.7	4413.2	4472.5	4517.2	4460.9	4278.7	3916.4	3691.2	3656.5	3466.0	3144.5
45°	4459.7	4452.7	4558.4	4722.1	4801.0	4726.1	4293.7	3992.5	3950.1	3730.7	3361.0
47.5°	4367.4	4353.5	4508.5	4766.8	5019.7	5151.5	4702.3	4319.2	4257.7	3988.4	3583.3
50°	4090.0	4076.6	4311.2	4654.1	5093.4	5440.6	5145.7	4665.7	4571.7	4264.7	3807.9
52.5°	3486.9	3493.3	3860.8	4332.1	4996.6	5620.5	5527.6	5030.8	4917.6	4547.3	4018.6
55°	2716.2	2730.2	3181.7	3700.6	4608.8	5593.2	5788.2	5406.9	5294.3	4813.2	4236.2
57.5°	1944.8	2006.4	2429.5	2943.2	3864.2	5160.8	5845.1	5764.4	5655.3	5103.4	4449.2
60°	1260.6	1271.6	1706.9	2224.7	2942.6	4392.3	5729.5	6035.4	5950.1	5399.4	4627.5
62.5°	807.9	815.5	1080.7	1556.1	2117.9	3249.6	5340.8	6153.3	6127.1	5595.0	4798.6
65°	593.8	587.9	726.1	1028.5	1426.6	2004.1	4585.6	6096.4	6148.1	5717.3	4940.3
67.5°	495.7	487.5	555.4	712.2	1051.0	1138.2	3393.0	5726.7	5915.9	5703.5	5044.1
70°	451.5	444.5	485.7	528.7	820.1	762.1	1710.4	4978.5	5269.9	5545.0	5027.3
72.5°	382.4	370.3	426.6	469.6	637.9	584.5	706.9	3824.2	4179.3	5037.2	4790.5
75°	296.5	288.4	336.6	413.3	479.4	456.2	446.9	2322.1	2709.8	3895.5	4191.0
77.5°	235.0	224.1	268.1	322.2	431.2	344.2	325.6	1000.0	1384.3	2487.0	3135.8
80°	177.0	167.2	203.7	254.8	331.4	259.4	210.6	408.1	521.7	1260.0	1577.0
82.5°	126.0	117.3	142.2	186.9	222.8	232.8	129.5	228.7	257.1	485.7	352.3
85°	80.7	75.4	95.2	117.3	141.7	149.8	78.9	119.5	131.2	200.2	146.9
87.5°	44.1	36.0	51.0	54.5	65.6	59.8	37.7	43.6	47.0	72.6	62.1
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°	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8	1232.8
2.5°	1237.4	1239.1	1245.0	1246.7	1250.7	1255.9	1259.4	1262.9	1262.9	1266.4	1266.4
5°	1254.2	1258.3	1270.5	1276.8	1287.3	1297.8	1304.1	1311.7	1316.3	1318.7	1319.8
7.5°	1286.7	1293.1	1310.6	1321.5	1339.6	1354.0	1363.9	1374.3	1376.7	1383.0	1380.8
10°	1330.9	1338.3	1358.1	1379.0	1400.5	1418.5	1427.7	1435.3	1438.2	1439.4	1436.4
12.5°	1381.3	1392.4	1417.9	1443.4	1466.1	1481.7	1484.1	1482.4	1474.2	1467.2	1467.2
15°	1443.4	1453.2	1481.7	1509.6	1531.7	1534.5	1520.1	1510.7	1500.9	1499.2	1499.2
17.5°	1517.7	1522.9	1549.1	1576.3	1578.1	1568.2	1546.7	1538.0	1528.8	1522.3	1522.9
20°	1604.2	1602.5	1621.0	1632.6	1620.4	1590.3	1557.8	1543.2	1533.9	1526.4	1527.0
22.5°	1707.5	1694.1	1691.9	1688.9	1656.4	1593.2	1549.1	1530.5	1516.0	1505.5	1509.0
25°	1857.8	1806.8	1771.3	1751.6	1678.4	1577.5	1521.2	1480.0	1452.7	1434.7	1441.7
27.5°	2045.9	1960.0	1870.6	1822.4	1678.4	1545.6	1453.9	1387.1	1342.4	1323.9	1333.1
30°	2225.2	2135.3	2003.5	1907.7	1674.4	1493.3	1345.3	1252.4	1200.3	1181.6	1192.7
32.5°	2378.4	2280.3	2144.5	2001.2	1664.6	1408.6	1210.7	1107.9	1057.5	1035.5	1046.4
35°	2520.6	2416.1	2286.2	2103.9	1638.5	1284.4	1062.7	984.3	928.0	892.7	904.3
37.5°	2666.3	2542.1	2420.2	2196.8	1591.4	1139.3	948.9	882.2	816.0	768.4	781.2
40°	2824.7	2676.2	2563.5	2251.9	1514.2	1001.1	860.7	799.8	729.6	679.1	688.9
42.5°	3009.9	2836.9	2723.2	2280.3	1408.6	903.1	803.3	743.4	677.3	636.1	644.2
45°	3203.1	3013.9	2868.9	2279.8	1290.8	857.2	784.6	725.5	652.3	609.4	616.3
47.5°	3405.7	3199.1	2994.8	2242.6	1188.6	863.7	774.3	686.6	605.9	564.2	569.9
50°	3608.8	3401.7	3116.7	2173.0	1145.1	849.7	735.3	632.0	536.9	499.2	501.4
52.5°	3810.2	3617.0	3221.8	2073.7	1101.0	798.1	685.4	561.2	508.4	482.3	482.3
55°	4012.8	3830.0	3336.1	1929.3	990.8	737.7	601.9	534.5	485.7	462.0	459.7
57.5°	4215.9	4076.0	3444.6	1784.7	852.0	663.4	556.0	502.0	463.2	442.8	439.3
60°	4427.2	4357.6	3556.6	1651.8	715.0	568.2	522.3	475.9	436.4	413.8	412.0
62.5°	4644.8	4667.4	3644.3	1480.6	589.1	510.1	492.2	444.5	406.3	384.8	384.2
65°	4864.2	4966.3	3701.7	1243.2	477.6	455.0	459.7	410.3	371.5	352.9	352.3
67.5°	5029.7	5181.7	3685.5	940.8	391.8	402.8	419.0	374.3	337.7	323.3	323.9
70°	5048.2	5156.2	3525.3	644.2	327.9	351.7	373.8	339.0	301.2	290.8	291.3
72.5°	4801.0	4808.0	3079.0	420.8	277.5	308.7	326.2	303.0	266.4	255.9	255.3
75°	4152.7	3976.3	2260.6	277.5	232.2	265.3	281.5	265.3	229.8	232.2	224.1
77.5°	3146.2	2816.1	1372.6	197.3	193.8	222.8	244.9	233.3	203.2	228.1	200.8
80°	1621.0	1523.6	612.3	147.4	153.2	178.1	201.4	186.3	160.7	153.2	139.9
82.5°	371.5	431.8	241.5	105.7	110.9	128.2	153.9	139.9	115.5	97.5	96.4
85°	130.0	142.2	106.8	66.2	65.0	80.1	104.4	93.5	78.3	62.7	66.2
87.5°	41.2	54.0	40.1	26.6	27.9	36.0	48.2	44.1	36.6	23.8	24.9
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)