

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: P960390

Luminaire Tested: **NAV-SB1C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8340.4 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

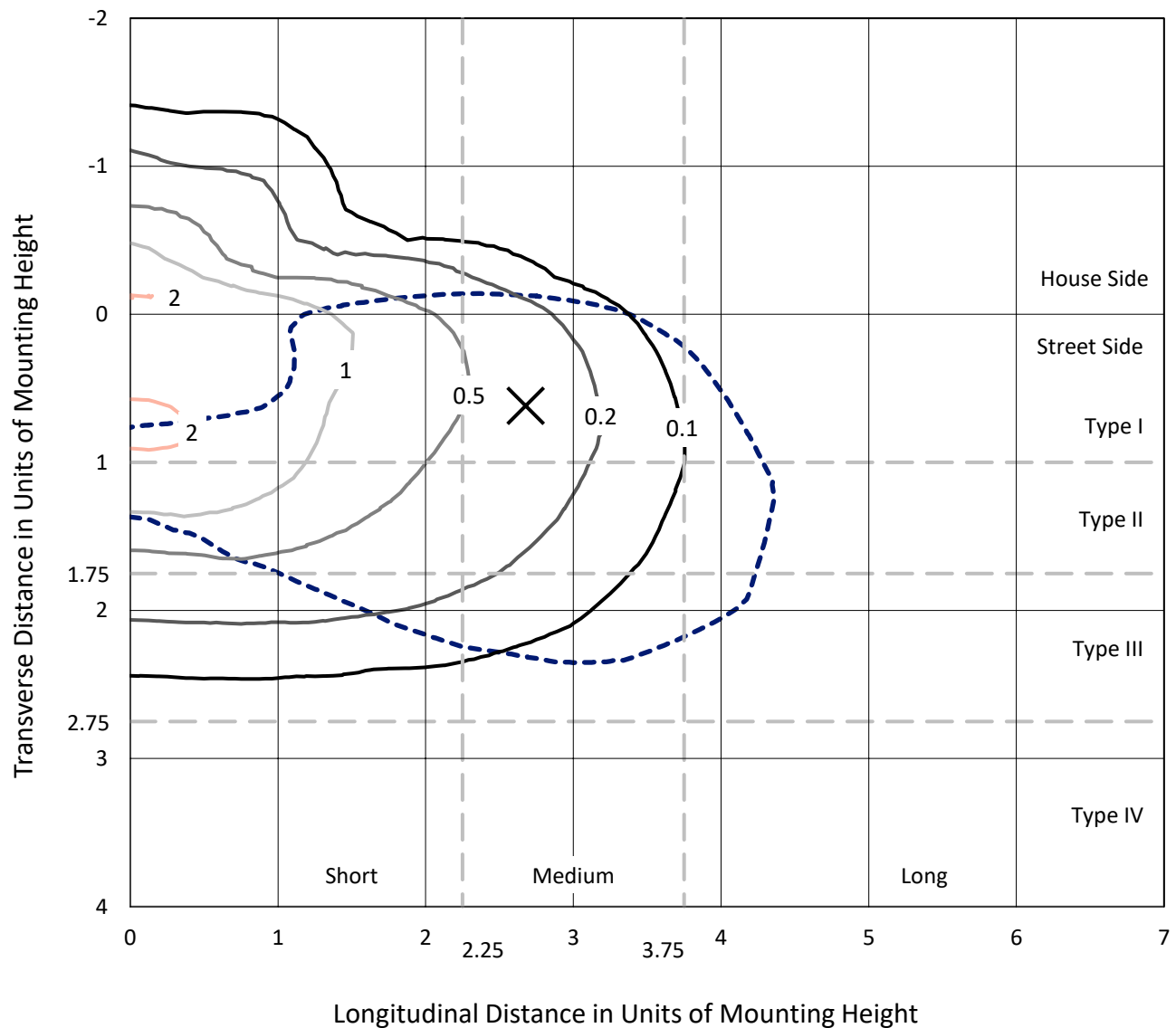


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Iso-Footcandle Lines of Horizontal Illumination

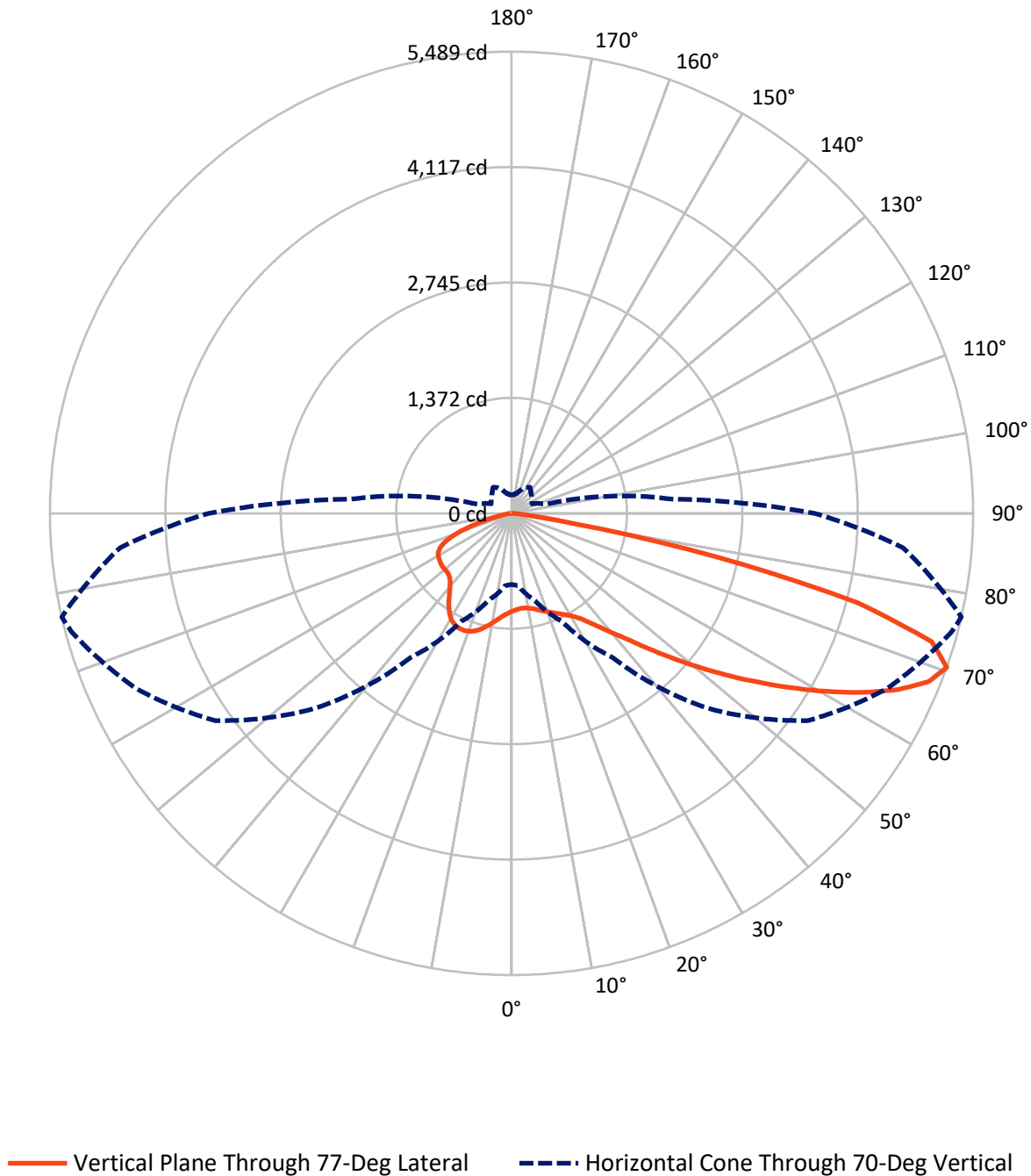
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1826.4	0.0	1826.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	6514.0	0.0	6514.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	8340.4	0.0	8340.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	1.3
10°-20°	320.3	3.8
20°-30°	547.7	6.6
30°-40°	880.8	10.6
40°-50°	1375.2	16.5
50°-60°	1836.9	22.0
60°-70°	1957.8	23.5
70°-80°	1205.2	14.5
80°-90°	105.6	1.3
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°	8340.4	100.0
0°-180°	8340.4	100.0

Coefficient of Utilization



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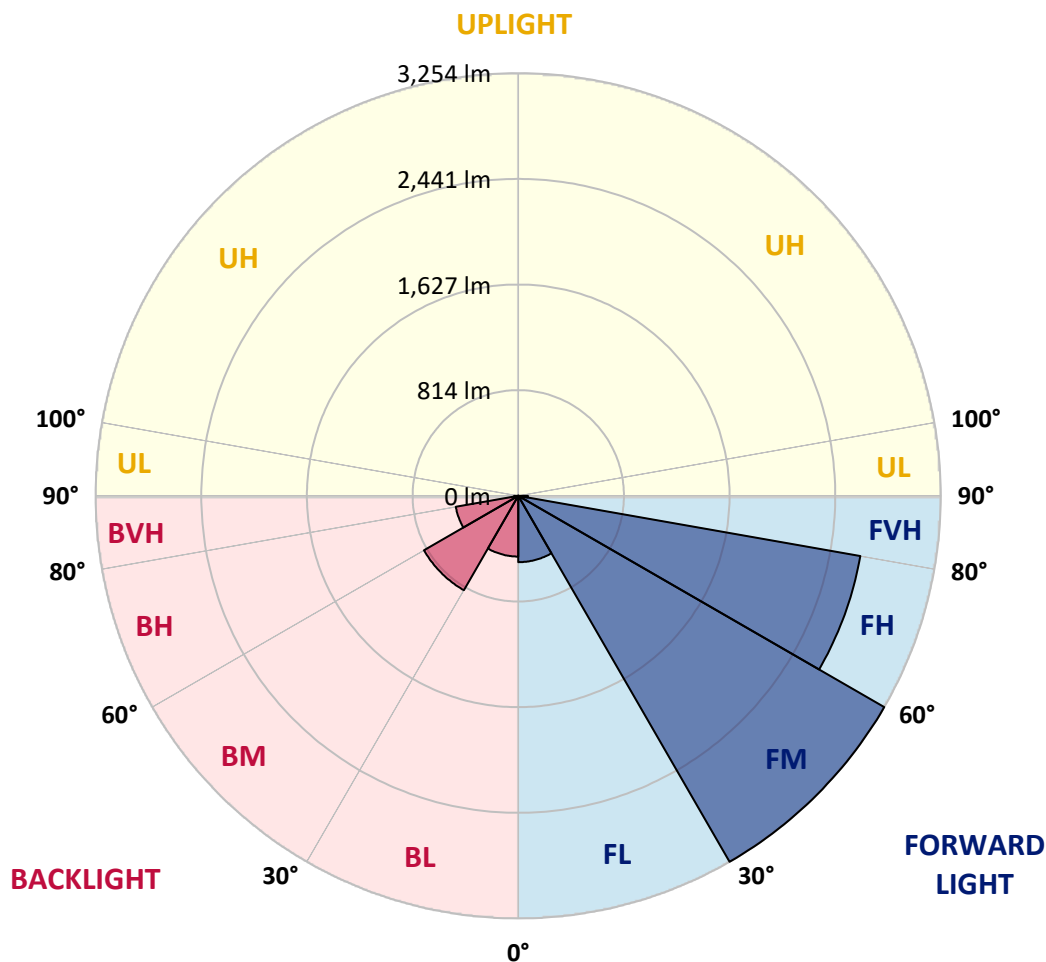
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.0	6.1			
FM	(30°-60°)	3254.3	39.0			
FH	(60°-80°)	2674.9	32.1			G2/5000
FVH	(80°-90°)	73.8	0.9			G1/100
BL	(0°-30°)	468.0	5.6	B1/500		
BM	(30°-60°)	838.6	10.1	B1/1000		
BH	(60°-80°)	488.1	5.9	B1/500		G1/500
BVH	(80°-90°)	31.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1072.6	1072.1	1077.7	1079.4	1089.7	1097.0	1110.6	1125.1	1143.9	1146.1	1157.6
5°	1010.6	1010.6	1017.0	1023.9	1037.1	1051.6	1072.6	1097.8	1130.3	1135.4	1164.0
7.5°	958.1	961.6	967.1	980.3	995.7	1016.6	1048.7	1084.6	1127.3	1135.4	1181.5
10°	915.8	919.6	926.5	937.2	960.2	989.3	1031.1	1077.3	1134.5	1147.3	1207.1
12.5°	902.6	906.4	910.3	918.4	939.7	974.0	1023.9	1080.7	1152.0	1164.8	1242.2
15°	933.4	938.0	935.0	932.9	944.0	975.2	1027.3	1093.1	1173.8	1192.2	1285.4
17.5°	1004.2	1005.9	999.1	979.1	977.3	993.9	1043.6	1110.2	1201.2	1221.2	1328.9
20°	1118.7	1115.7	1101.7	1061.9	1039.2	1035.9	1071.3	1135.8	1229.4	1250.7	1375.9
22.5°	1274.2	1270.8	1242.6	1179.8	1129.3	1096.0	1111.4	1169.1	1261.0	1284.8	1421.6
25°	1468.1	1463.4	1422.0	1336.6	1258.4	1176.0	1166.1	1213.1	1299.8	1322.0	1469.4
27.5°	1694.5	1690.6	1645.8	1533.1	1420.2	1285.4	1234.0	1264.8	1340.4	1365.6	1523.3
30°	1938.0	1949.1	1869.6	1748.3	1605.7	1427.9	1325.4	1328.4	1393.0	1415.6	1588.5
32.5°	2224.1	2243.4	2147.7	1993.9	1799.2	1583.0	1440.7	1417.3	1469.4	1488.2	1671.1
35°	2507.9	2529.6	2450.2	2280.1	2055.8	1765.9	1561.3	1519.4	1571.1	1591.6	1780.4
37.5°	2753.0	2782.1	2741.1	2593.2	2330.5	1986.2	1718.4	1639.4	1696.3	1721.9	1927.3
40°	2946.5	2991.0	2988.0	2895.6	2654.3	2253.7	1917.9	1787.6	1851.7	1879.4	2105.5
42.5°	3103.7	3142.1	3175.4	3170.7	2992.2	2557.4	2152.4	1980.3	2029.0	2061.0	2305.7
45°	3212.1	3253.2	3325.0	3402.3	3317.3	2882.4	2421.2	2208.8	2253.3	2301.5	2544.6
47.5°	3309.1	3355.7	3448.8	3571.4	3593.2	3208.8	2715.4	2475.0	2515.6	2565.5	2784.2
50°	3317.7	3357.9	3502.2	3676.1	3789.3	3522.3	3031.5	2773.5	2811.5	2864.9	3040.9
52.5°	3111.4	3174.6	3426.6	3673.1	3879.4	3784.6	3345.5	3084.0	3126.8	3190.8	3306.5
55°	2415.1	2507.9	3205.0	3558.6	3847.3	3954.1	3644.1	3414.3	3468.9	3535.9	3574.0
57.5°	2080.2	2120.8	2544.2	3350.2	3701.3	3998.1	3896.0	3747.8	3835.9	3909.3	3856.8
60°	1869.6	1903.4	2153.7	3025.9	3509.1	3928.5	4090.9	4058.8	4210.9	4298.4	4145.9
62.5°	1644.1	1676.2	1903.8	2526.6	3263.0	3812.8	4213.9	4345.9	4595.3	4691.0	4418.5
65°	1420.2	1447.6	1665.9	2123.0	2950.4	3697.0	4277.5	4594.0	4951.2	5050.3	4644.9
67.5°	1170.9	1193.5	1399.7	1791.1	2570.2	3538.5	4309.1	4789.2	5260.8	5345.8	4756.8
70°	844.9	862.4	1075.5	1416.4	2093.0	3266.1	4296.3	4927.7	5421.4	5489.4	4672.2
72.5°	399.3	415.2	665.5	919.6	1478.4	2735.5	4037.1	4817.9	5258.2	5224.5	4154.5
75°	213.2	226.8	382.3	504.5	780.8	1875.2	3303.6	4150.2	4415.5	4251.5	3070.4
77.5°	144.4	155.1	236.7	302.9	356.7	890.2	2123.4	2873.5	2764.5	2493.7	1537.7
80°	114.5	125.6	193.9	205.0	172.6	321.6	877.4	1330.1	955.5	764.1	437.4
82.5°	87.9	100.3	163.2	148.6	94.0	132.0	255.4	420.8	244.8	186.2	106.0
85°	53.8	67.0	128.1	94.8	53.0	60.3	86.7	117.1	74.7	62.3	38.0
87.5°	27.4	38.4	64.9	34.6	23.9	14.1	23.1	23.1	19.7	17.1	9.8
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°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1167.9	1176.4	1190.9	1204.6	1215.2	1225.5	1235.7	1241.3	1243.0	1249.9	1253.7
5°	1181.5	1197.3	1225.5	1251.9	1268.6	1278.9	1286.2	1290.5	1291.3	1293.4	1296.8
7.5°	1206.7	1231.9	1271.2	1297.6	1310.1	1309.2	1306.3	1295.6	1291.3	1287.4	1288.3
10°	1242.2	1275.5	1323.8	1342.1	1334.4	1313.9	1287.4	1256.2	1241.7	1227.6	1223.3
12.5°	1286.2	1328.4	1375.9	1375.0	1337.0	1284.4	1222.9	1175.1	1144.7	1123.0	1117.9
15°	1339.6	1388.3	1424.5	1395.5	1312.2	1217.8	1127.7	1065.3	1038.0	1014.0	1011.5
17.5°	1394.6	1446.8	1463.4	1389.1	1249.9	1119.1	1017.0	967.9	941.1	928.2	932.0
20°	1448.4	1500.2	1486.5	1352.4	1155.1	1007.3	916.2	889.3	883.8	886.7	885.5
22.5°	1505.3	1551.4	1491.2	1281.5	1034.1	892.8	842.8	843.7	856.0	865.0	867.2
25°	1563.3	1594.6	1478.8	1179.0	904.3	808.6	796.2	809.9	834.2	851.8	856.5
27.5°	1619.3	1633.0	1451.9	1052.1	792.8	748.4	750.5	778.7	815.4	839.8	845.7
30°	1682.5	1667.2	1400.3	909.4	715.4	696.7	714.6	747.5	784.2	806.1	811.2
32.5°	1753.9	1696.7	1318.1	777.5	660.8	655.3	684.7	706.1	722.3	728.7	732.2
35°	1842.7	1738.1	1213.1	684.7	611.7	624.9	653.1	642.5	636.0	632.6	636.0
37.5°	1958.1	1794.1	1090.1	624.5	571.9	603.1	614.7	581.4	556.2	543.8	546.7
40°	2096.9	1876.1	971.8	577.9	546.7	584.4	564.3	524.1	492.1	474.6	475.8
42.5°	2251.1	1962.0	872.3	542.9	532.7	569.0	527.2	479.3	427.6	422.0	427.6
45°	2413.0	2050.3	804.3	516.0	525.8	555.8	505.7	428.4	391.7	414.3	426.3
47.5°	2574.9	2131.5	763.3	495.9	522.4	540.8	487.0	400.3	374.2	407.0	422.5
50°	2755.1	2204.2	745.0	481.4	518.5	534.8	458.8	393.0	355.8	377.6	393.8
52.5°	2934.2	2260.5	731.3	466.9	513.0	530.1	445.1	384.5	333.6	334.9	343.9
55°	3112.6	2297.2	716.4	447.6	500.6	519.9	443.8	375.0	316.9	311.0	315.3
57.5°	3303.2	2318.1	697.9	426.3	479.3	493.7	442.5	367.8	311.8	302.0	303.3
60°	3497.1	2348.9	674.0	400.3	450.7	462.6	439.5	365.2	308.8	292.1	293.5
62.5°	3670.9	2359.5	645.4	375.5	413.9	431.8	433.2	363.1	300.7	272.1	272.1
65°	3785.0	2313.4	595.4	347.3	374.2	400.3	420.8	355.8	286.2	257.6	257.6
67.5°	3780.3	2181.9	517.3	311.0	335.8	365.2	402.8	343.5	268.7	239.6	240.9
70°	3604.3	1922.2	418.2	268.7	293.5	327.6	379.8	325.0	247.7	220.0	222.5
72.5°	3091.3	1504.4	303.7	219.1	244.4	288.7	349.8	302.9	226.4	202.4	201.2
75°	2208.4	952.1	205.9	168.3	190.0	244.8	312.6	276.8	206.7	203.4	191.8
77.5°	1128.1	454.9	136.2	123.0	132.4	193.1	262.7	247.3	209.7	167.9	149.5
80°	367.0	167.9	85.9	83.7	87.9	128.5	203.4	202.8	158.9	114.1	100.8
82.5°	117.1	72.2	56.0	53.8	51.7	80.8	141.9	160.6	107.2	72.2	71.8
85°	46.5	43.2	32.9	30.3	21.8	38.0	74.3	106.8	79.8	52.1	53.4
87.5°	17.1	17.1	9.0	6.5	4.7	12.8	20.1	32.1	45.7	27.0	26.4
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)