

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: P960393

Luminaire Tested: **NAV-SB1C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8029.9 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
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



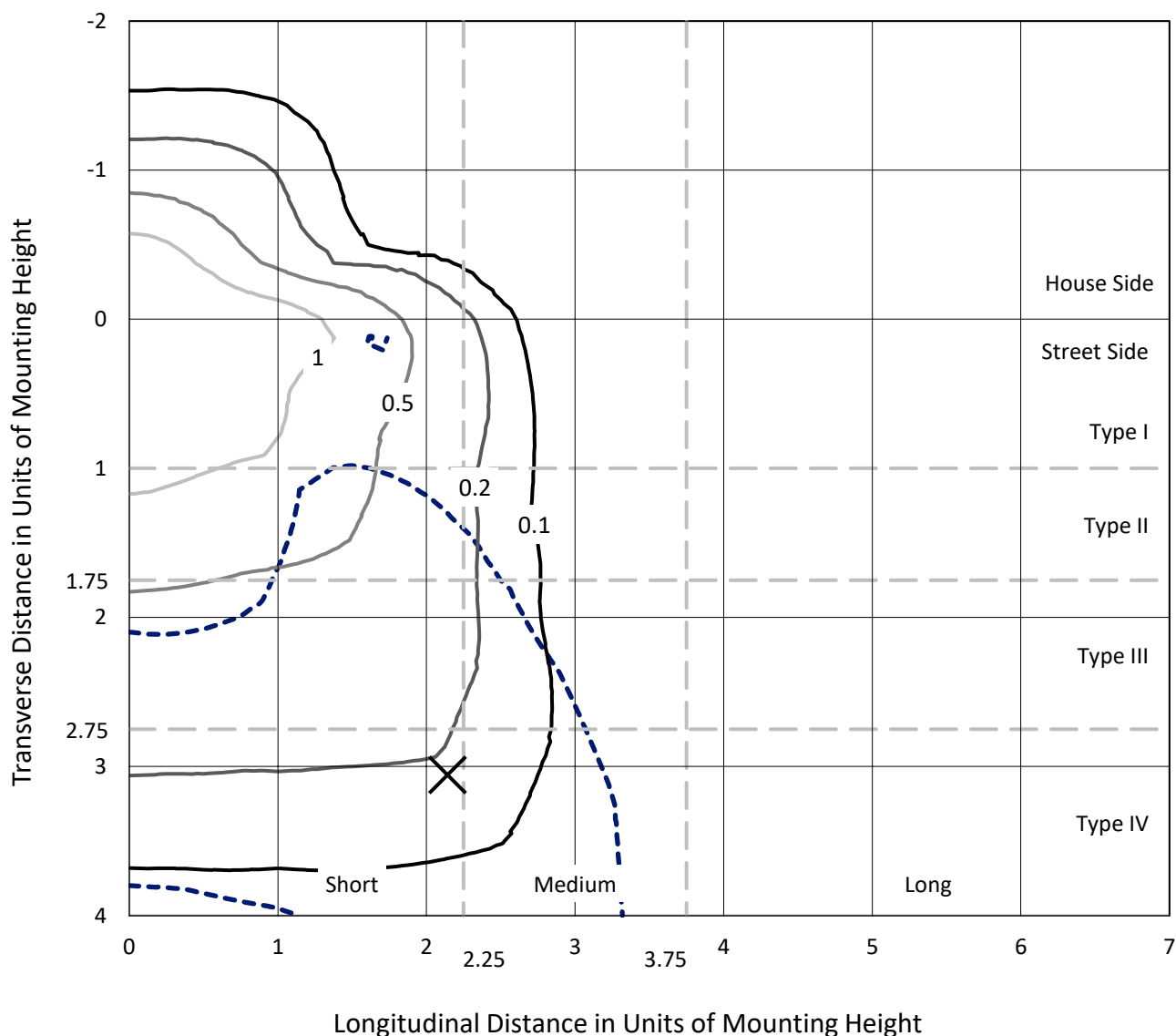
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

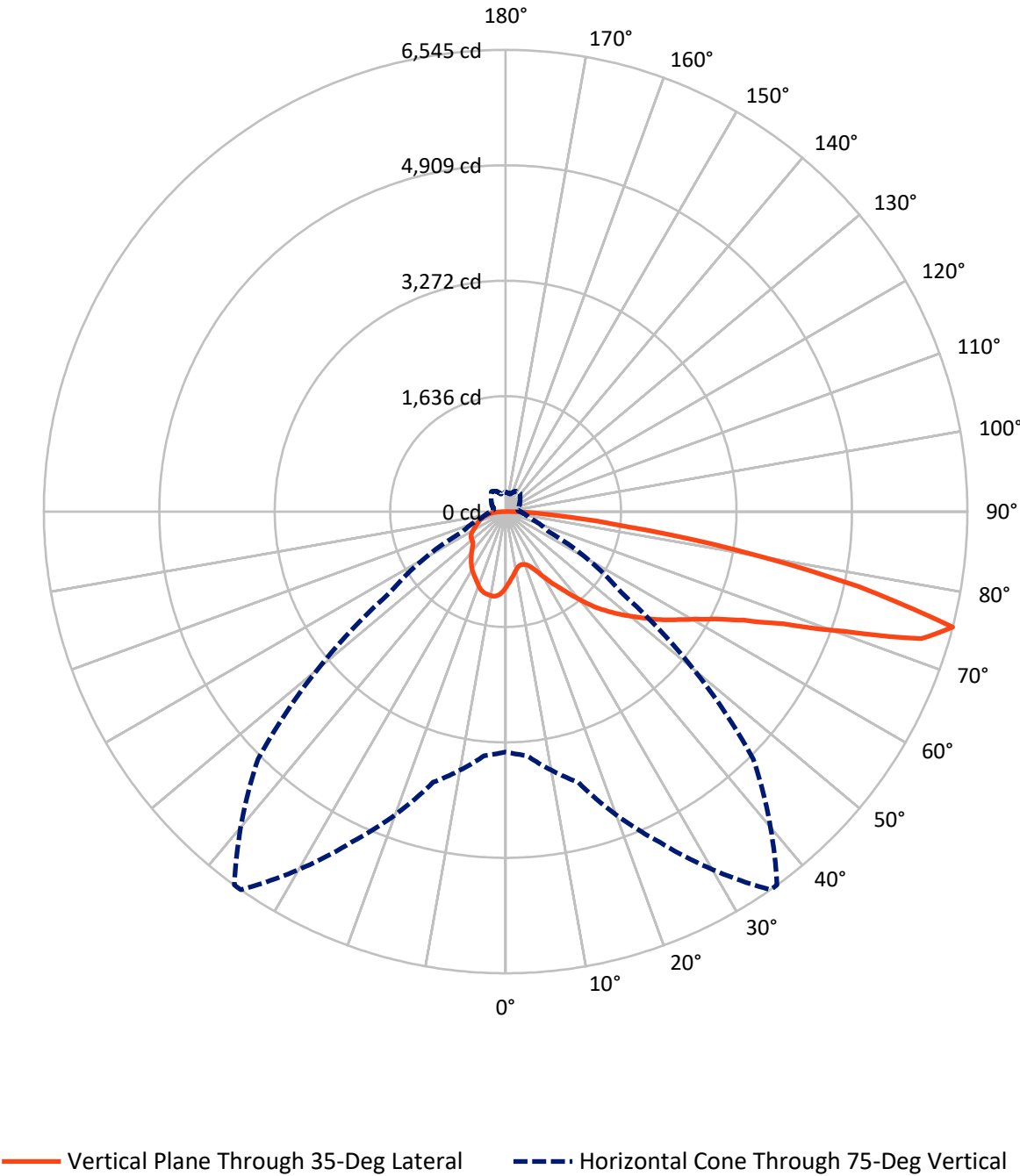


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1910.9	0.0	1910.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6119.0	0.0	6119.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	8029.9	0.0	8029.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.3
10°-20°	292.2	3.6
20°-30°	490.7	6.1
30°-40°	762.6	9.5
40°-50°	1132.0	14.1
50°-60°	1562.8	19.5
60°-70°	1896.0	23.6
70°-80°	1566.9	19.5
80°-90°	225.4	2.8
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°	8029.9	100.0
0°-180°	8029.9	100.0

Coefficient of Utilization



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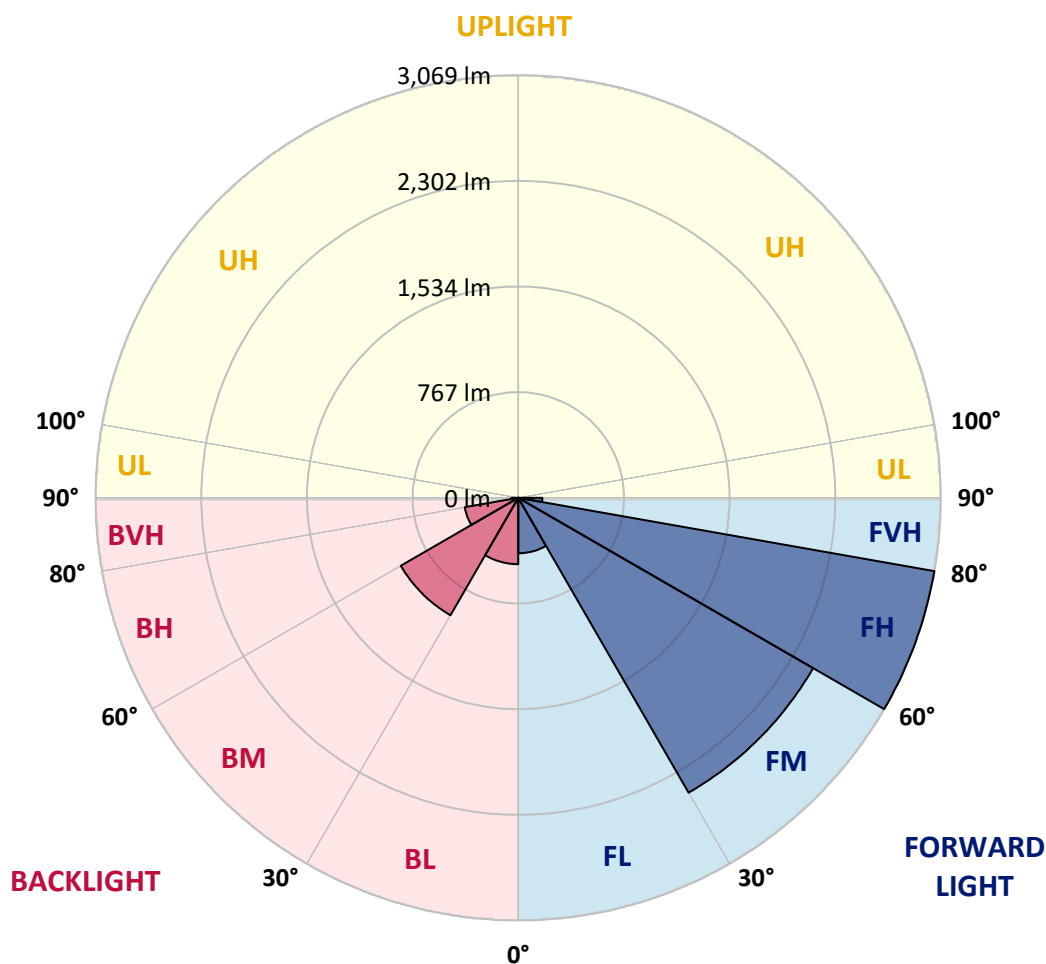
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.7	5.0			
FM	(30°-60°)	2472.8	30.8			
FH	(60°-80°)	3068.9	38.2			G2/5000
FVH	(80°-90°)	174.6	2.2			G2/225
BL	(0°-30°)	481.6	6.0	B1/500		
BM	(30°-60°)	984.6	12.3	B1/1000		
BH	(60°-80°)	394.0	4.9	B1/500		G1/500
BVH	(80°-90°)	50.8	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	986.7	992.8	995.4	994.0	1000.6	999.7	1008.8	1020.1	1035.8	1050.9	1073.1
5°	910.7	917.3	922.9	928.0	940.6	944.5	958.9	980.6	1009.2	1038.3	1074.8
7.5°	840.0	845.6	854.3	863.9	885.1	889.0	912.9	946.8	986.7	1029.2	1079.6
10°	782.3	787.9	797.0	807.8	834.4	839.1	869.5	914.6	966.7	1020.6	1084.8
12.5°	757.5	759.2	764.4	775.3	798.3	801.3	834.8	886.4	947.2	1014.0	1092.6
15°	756.1	759.6	760.1	765.8	784.8	786.2	816.9	868.2	935.0	1012.7	1104.3
17.5°	769.2	771.8	767.9	771.4	787.4	789.7	814.0	859.5	931.1	1018.3	1124.3
20°	803.9	806.1	794.4	789.7	801.3	803.1	827.0	865.1	935.0	1030.1	1151.7
22.5°	877.7	879.0	850.3	830.9	831.7	832.6	853.4	888.2	950.2	1051.3	1186.3
25°	992.8	991.9	946.3	908.6	886.8	882.1	896.0	925.5	975.8	1079.6	1231.1
27.5°	1127.3	1120.8	1075.2	1018.8	971.5	964.5	961.6	974.1	1012.3	1116.9	1285.8
30°	1279.3	1273.2	1224.2	1150.4	1084.8	1073.5	1044.9	1038.3	1066.5	1167.7	1361.7
32.5°	1446.0	1442.1	1383.4	1294.1	1206.3	1193.3	1145.1	1127.8	1149.9	1244.6	1467.7
35°	1585.8	1582.3	1533.6	1441.7	1334.3	1318.4	1269.3	1249.8	1261.1	1343.1	1606.2
37.5°	1712.1	1710.3	1668.6	1596.1	1485.4	1466.0	1410.8	1404.2	1402.1	1472.8	1774.2
40°	1829.2	1824.9	1781.6	1743.3	1661.2	1643.5	1594.8	1589.2	1572.7	1632.6	1964.2
42.5°	1959.1	1947.8	1884.8	1867.0	1844.9	1830.1	1801.0	1802.0	1765.5	1812.7	2165.7
45°	2065.0	2058.4	1993.7	1983.4	2007.3	2001.1	2026.3	2032.9	1962.1	2001.6	2374.9
47.5°	2178.7	2172.6	2118.0	2110.6	2175.3	2177.0	2266.0	2268.1	2153.9	2197.8	2584.5
50°	2318.9	2310.2	2255.9	2265.0	2337.6	2344.1	2506.8	2492.1	2330.6	2397.1	2792.5
52.5°	2411.4	2416.5	2404.9	2419.6	2518.6	2524.7	2743.9	2706.1	2505.6	2593.7	2996.5
55°	2479.5	2489.9	2526.4	2560.2	2709.6	2715.6	2967.5	2909.7	2650.5	2776.0	3188.4
57.5°	2567.2	2552.5	2620.6	2686.6	2891.0	2907.1	3184.9	3106.0	2779.1	2933.1	3319.9
60°	2693.1	2682.6	2735.6	2833.3	3094.2	3119.8	3415.0	3282.6	2873.3	3057.8	3345.5
62.5°	2948.3	2922.3	2930.6	3016.9	3350.3	3384.1	3674.5	3436.7	2920.1	3106.4	3208.4
65°	3329.9	3285.2	3243.5	3303.5	3711.0	3744.4	3967.6	3557.8	2902.8	3012.2	2844.2
67.5°	3810.4	3766.2	3714.9	3771.4	4242.4	4268.8	4329.2	3625.9	2766.1	2649.2	2200.4
70°	4206.8	4190.3	4251.5	4483.8	5091.0	5091.9	4792.8	3569.6	2391.4	1878.3	1273.2
72.5°	4154.2	4144.3	4466.7	5184.8	6160.6	6137.6	5231.7	3142.3	1610.9	847.4	477.0
75°	3408.0	3472.7	3972.4	5172.2	6544.7	6541.8	4962.9	1997.7	666.4	351.2	246.5
77.5°	1827.5	1930.0	2578.9	3818.7	5109.2	5186.1	3489.2	698.8	286.1	224.9	170.6
80°	596.0	685.4	1028.0	1944.3	3319.9	3305.6	1495.5	274.4	195.8	159.3	118.1
82.5°	253.1	263.5	459.3	918.1	1703.8	1677.3	476.2	157.5	137.7	109.0	72.9
85°	99.0	110.7	202.7	424.6	738.0	721.9	171.9	78.1	88.1	71.2	43.5
87.5°	32.6	39.5	72.5	145.4	229.6	221.4	42.1	27.0	38.2	32.6	15.6
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°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1079.1	1086.1	1094.3	1106.5	1116.9	1125.6	1134.7	1140.3	1142.6	1149.0	1148.6
5°	1087.0	1102.2	1122.6	1142.6	1162.0	1173.8	1184.2	1189.4	1194.2	1197.6	1198.5
7.5°	1100.0	1119.5	1151.7	1177.7	1194.2	1203.8	1210.6	1209.0	1210.6	1211.6	1212.9
10°	1111.3	1138.6	1176.8	1201.6	1214.1	1214.6	1212.9	1206.7	1203.8	1204.2	1205.0
12.5°	1124.7	1155.1	1196.4	1217.2	1220.7	1211.1	1203.8	1193.3	1189.4	1187.7	1186.8
15°	1143.0	1177.7	1217.6	1225.4	1216.8	1204.6	1192.0	1175.1	1166.4	1159.5	1161.6
17.5°	1165.1	1203.2	1234.1	1228.5	1209.8	1189.8	1169.4	1143.8	1126.1	1118.7	1119.1
20°	1195.9	1230.2	1246.7	1222.0	1193.7	1163.4	1128.6	1097.4	1080.9	1073.5	1072.7
22.5°	1233.3	1266.3	1258.9	1210.6	1170.8	1122.2	1078.7	1055.8	1047.4	1042.2	1043.1
25°	1278.0	1306.2	1267.5	1194.2	1132.9	1067.4	1034.0	1026.6	1022.7	1018.8	1018.8
27.5°	1336.1	1351.4	1274.1	1169.8	1073.9	1009.2	997.1	998.5	997.1	990.6	991.9
30°	1413.0	1409.9	1280.1	1130.4	1006.2	956.7	957.6	963.3	964.1	959.8	962.0
32.5°	1514.1	1483.3	1283.2	1079.1	941.6	910.7	911.6	917.7	922.0	914.6	918.1
35°	1636.5	1568.8	1278.4	1014.9	891.6	866.8	860.4	862.1	863.4	856.5	861.2
37.5°	1779.3	1664.7	1257.2	943.7	850.3	823.9	810.1	798.3	791.3	784.8	789.1
40°	1936.0	1769.4	1218.0	874.2	804.4	778.3	757.5	735.3	711.9	703.3	707.1
42.5°	2100.1	1877.0	1170.8	807.8	751.4	730.1	708.0	675.9	640.7	622.9	625.0
45°	2270.3	1987.3	1124.3	742.3	697.1	688.1	662.5	623.8	585.6	563.0	561.3
47.5°	2436.9	2091.4	1056.2	676.3	646.4	656.3	636.4	600.8	558.2	522.6	518.8
50°	2596.3	2189.1	944.5	609.5	605.2	646.8	627.7	576.5	527.9	482.3	478.4
52.5°	2754.3	2268.1	801.8	548.7	583.0	644.2	616.4	560.0	500.5	452.7	447.5
55°	2888.4	2308.9	664.2	496.6	550.8	622.1	602.9	540.5	461.9	411.1	406.7
57.5°	2964.8	2275.9	549.6	445.4	506.6	585.6	579.9	498.8	415.8	376.8	371.6
60°	2931.8	2142.2	455.8	400.7	464.4	546.1	540.0	457.6	380.7	343.8	338.6
62.5°	2750.0	1887.4	381.6	361.6	426.3	505.7	500.1	425.9	353.8	318.2	312.5
65°	2383.6	1535.3	323.8	329.0	387.7	457.0	465.4	399.3	332.5	297.8	292.1
67.5°	1817.9	1112.1	278.7	300.8	349.8	409.4	433.3	380.3	314.7	281.8	276.5
70°	1036.2	631.6	240.5	273.5	316.4	365.1	408.5	365.1	295.6	268.2	264.8
72.5°	392.9	290.0	208.0	246.1	284.3	327.7	381.1	341.2	273.5	253.1	249.6
75°	209.7	176.7	175.0	214.0	247.4	291.3	346.9	317.8	257.0	267.4	276.0
77.5°	142.8	125.0	146.3	183.2	207.0	250.9	310.4	282.2	222.7	221.8	204.5
80°	99.0	88.6	118.9	147.6	160.2	210.9	270.9	242.2	181.4	169.3	162.0
82.5°	59.4	57.7	89.0	110.3	113.3	162.8	224.5	203.2	148.4	129.4	130.3
85°	32.6	34.3	56.9	64.7	66.0	113.8	175.8	157.1	114.2	95.9	96.8
87.5°	9.1	11.7	20.8	25.6	31.7	59.0	104.7	93.4	57.3	40.0	40.0
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)