

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: P960362

Luminaire Tested: **NAV-SB1C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960362
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-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7589.1 lumens
Efficiency: N/A
Efficacy: 139.5 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

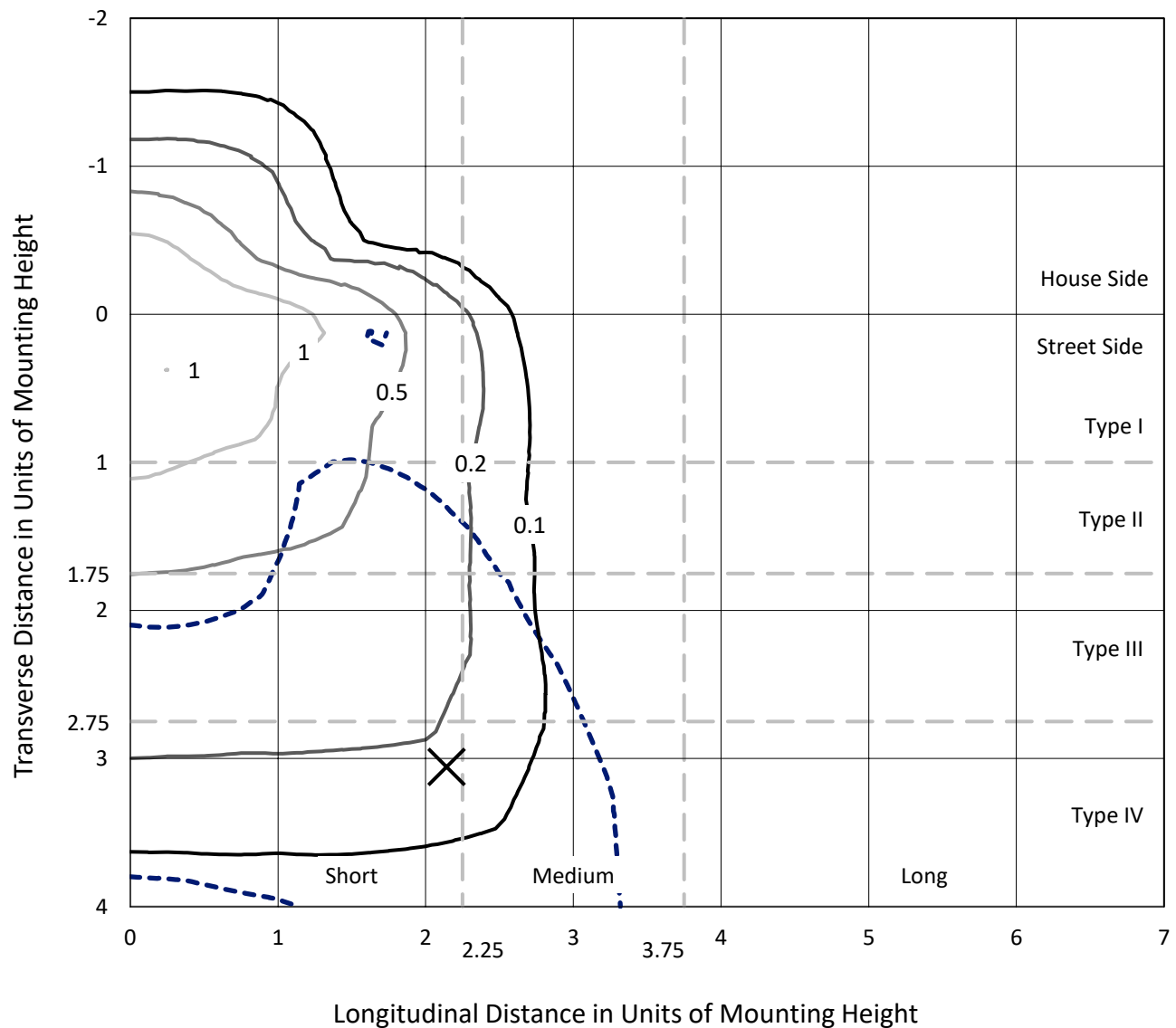


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Iso-Footcandle Lines of Horizontal Illumination

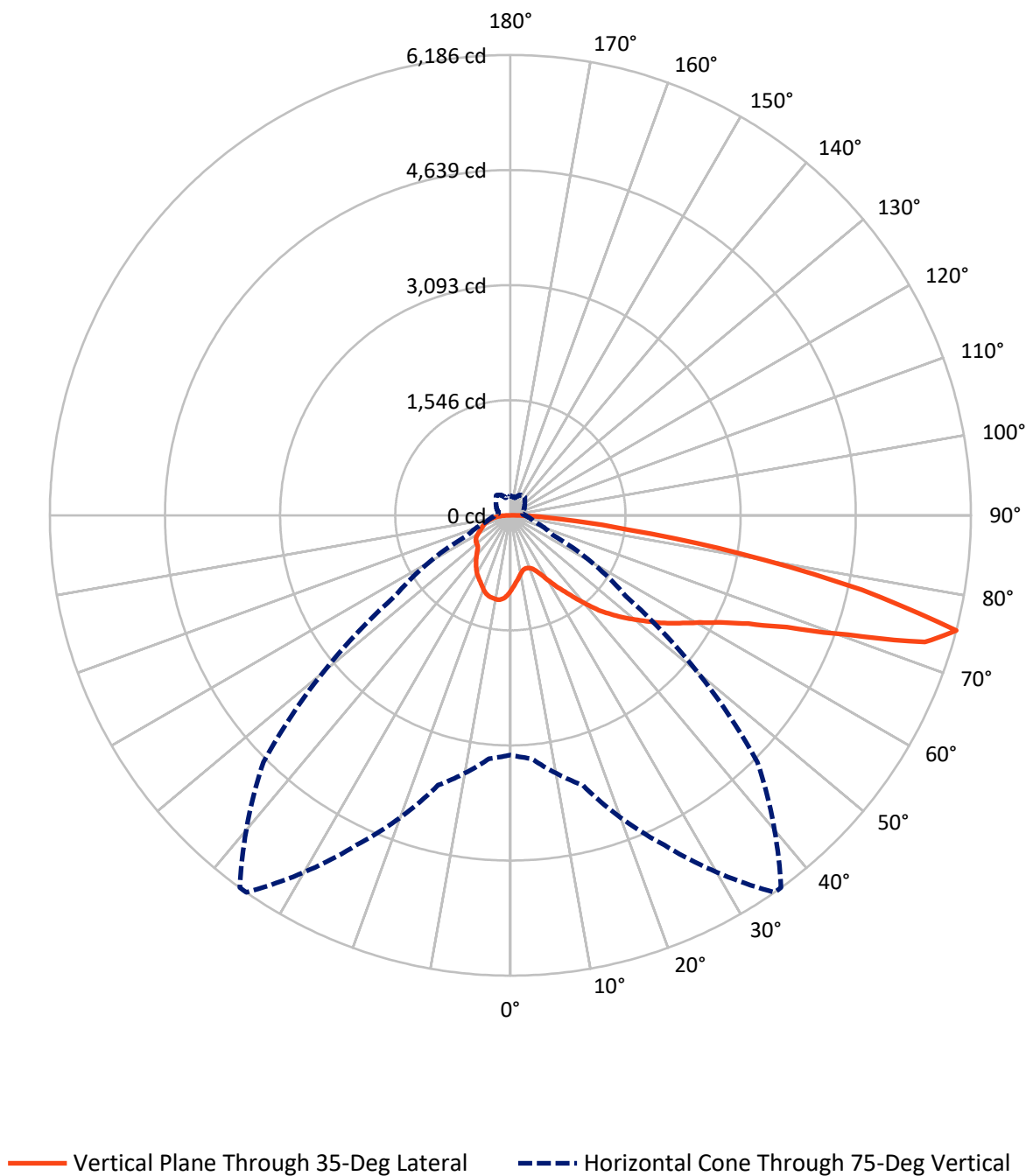
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	1806.0	0.0	1806.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5783.1	0.0	5783.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	7589.1	0.0	7589.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.3
10°-20°	276.2	3.6
20°-30°	463.8	6.1
30°-40°	720.8	9.5
40°-50°	1069.8	14.1
50°-60°	1477.0	19.5
60°-70°	1791.9	23.6
70°-80°	1480.9	19.5
80°-90°	213.0	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°	7589.1	100.0
0°-180°	7589.1	100.0

Coefficient of Utilization



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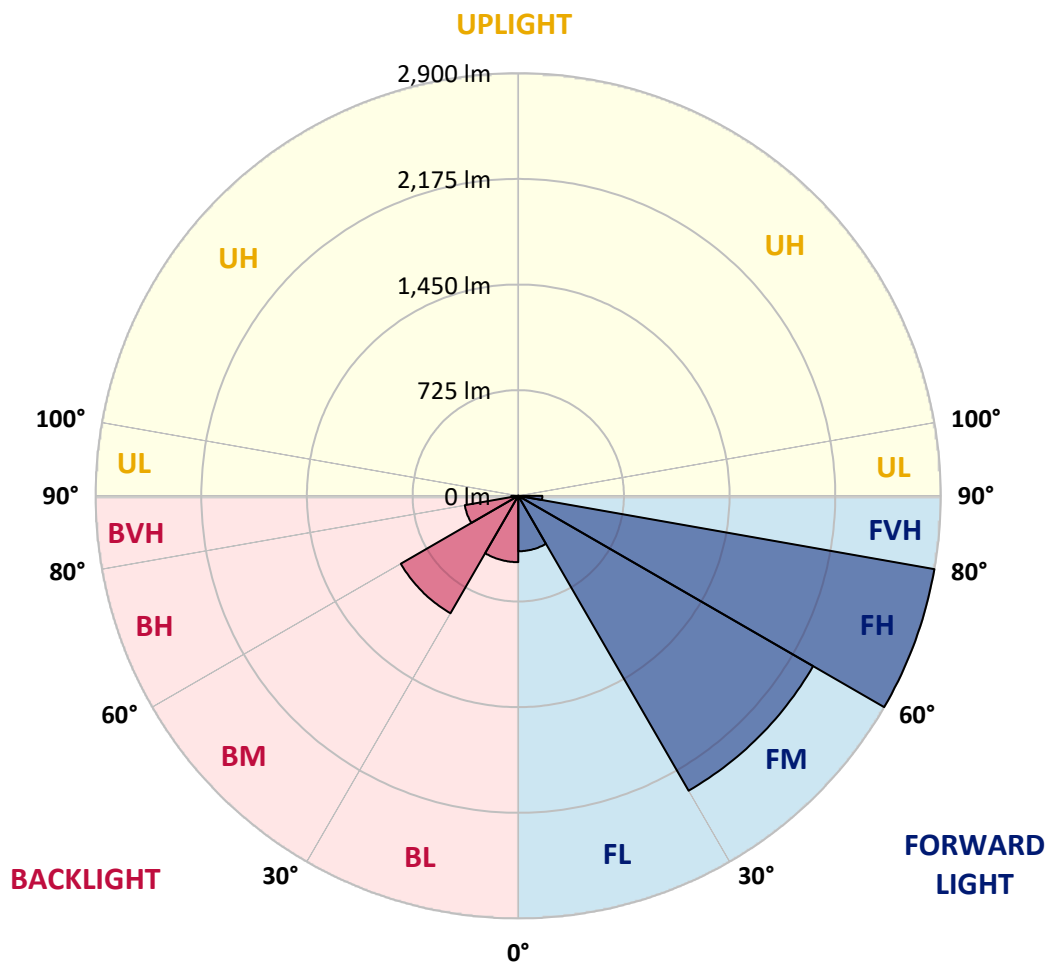
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.6	5.0			
FM	(30°-60°)	2337.0	30.8			
FH	(60°-80°)	2900.4	38.2			G2/5000
FVH	(80°-90°)	165.0	2.2			G2/225
BL	(0°-30°)	455.1	6.0	B1/500		
BM	(30°-60°)	930.6	12.3	B1/1000		
BH	(60°-80°)	372.3	4.9	B1/500		G1/500
BVH	(80°-90°)	48.0	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°	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
2.5°	932.5	938.3	940.7	939.5	945.7	944.8	953.5	964.1	978.9	993.2	1014.1
5°	860.7	866.8	872.2	877.1	889.1	892.8	906.3	926.8	953.9	981.3	1015.8
7.5°	793.9	799.2	807.4	816.4	836.5	840.2	862.7	894.8	932.5	972.7	1020.3
10°	739.3	744.7	753.3	763.5	788.5	793.0	821.7	864.4	913.7	964.5	1025.2
12.5°	715.9	717.5	722.5	732.8	754.5	757.4	788.9	837.7	895.2	958.4	1032.6
15°	714.6	717.9	718.3	723.8	741.8	743.0	772.1	820.5	883.8	957.1	1043.8
17.5°	727.0	729.5	725.8	729.1	744.3	746.3	769.3	812.3	880.1	962.5	1062.6
20°	759.8	761.9	750.8	746.3	757.4	759.0	781.6	817.6	883.8	973.5	1088.4
22.5°	829.5	830.8	803.7	785.3	786.1	786.9	806.6	839.4	898.1	993.6	1121.2
25°	938.3	937.5	894.4	858.6	838.1	833.6	846.8	874.6	922.3	1020.3	1163.5
27.5°	1065.5	1059.3	1016.2	962.9	918.2	911.6	908.8	920.7	956.7	1055.6	1215.2
30°	1209.1	1203.4	1156.9	1087.2	1025.2	1014.5	987.5	981.3	1008.0	1103.6	1287.0
32.5°	1366.6	1362.9	1307.5	1223.0	1140.1	1127.8	1082.3	1065.9	1086.8	1176.2	1387.1
35°	1498.7	1495.4	1449.5	1362.5	1261.2	1246.0	1199.7	1181.1	1191.8	1269.4	1518.0
37.5°	1618.1	1616.4	1577.1	1508.5	1403.9	1385.5	1333.3	1327.2	1325.1	1392.1	1676.7
40°	1728.9	1724.8	1683.8	1647.6	1570.1	1553.3	1507.3	1501.9	1486.4	1543.0	1856.5
42.5°	1851.6	1840.9	1781.3	1764.5	1743.6	1729.7	1702.2	1703.0	1668.5	1713.3	2046.8
45°	1951.6	1945.4	1884.4	1874.5	1897.1	1891.3	1915.1	1921.3	1854.4	1891.7	2244.5
47.5°	2059.1	2053.4	2001.7	1994.6	2055.8	2057.5	2141.5	2143.6	2035.8	2077.2	2442.7
50°	2191.7	2183.5	2132.1	2140.7	2209.3	2215.4	2369.3	2355.3	2202.7	2265.5	2639.3
52.5°	2279.0	2283.9	2272.8	2286.8	2380.4	2386.1	2593.2	2557.6	2368.1	2451.3	2832.1
55°	2343.5	2353.3	2387.7	2419.7	2560.9	2566.6	2804.6	2750.0	2505.1	2623.6	3013.4
57.5°	2426.3	2412.3	2476.8	2539.1	2732.3	2747.5	3010.1	2935.4	2626.5	2772.1	3137.7
60°	2545.3	2535.4	2585.5	2677.8	2924.3	2948.5	3227.5	3102.4	2715.5	2889.9	3161.9
62.5°	2786.5	2761.9	2769.7	2851.3	3166.4	3198.4	3472.9	3248.0	2759.8	2935.8	3032.3
65°	3147.2	3104.8	3065.5	3122.1	3507.3	3538.9	3749.8	3362.5	2743.4	2846.8	2688.1
67.5°	3601.3	3559.4	3511.0	3564.3	4009.5	4034.5	4091.6	3426.9	2614.2	2503.9	2079.6
70°	3975.9	3960.3	4018.1	4237.7	4811.6	4812.4	4529.7	3373.6	2260.1	1775.2	1203.4
72.5°	3926.3	3916.8	4221.6	4900.2	5822.4	5800.7	4944.5	2969.9	1522.5	800.8	450.9
75°	3221.0	3282.2	3754.4	4888.3	6185.6	6182.7	4690.5	1888.0	629.8	331.9	233.0
77.5°	1727.2	1824.0	2437.3	3609.1	4828.8	4901.4	3297.7	660.5	270.4	212.5	161.2
80°	563.3	647.8	971.5	1837.6	3137.7	3124.2	1413.4	259.3	185.0	150.6	111.6
82.5°	239.1	249.1	434.1	867.7	1610.3	1585.3	450.1	148.9	130.1	103.0	68.9
85°	93.6	104.7	191.6	401.3	697.4	682.2	162.5	73.8	83.3	67.2	41.0
87.5°	30.7	37.3	68.5	137.5	217.0	209.2	39.8	25.4	36.1	30.7	14.8
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°	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3	1011.3
2.5°	1019.9	1026.4	1034.2	1045.8	1055.6	1063.8	1072.5	1077.8	1079.8	1086.0	1085.6
5°	1027.3	1041.7	1061.0	1079.8	1098.3	1109.4	1119.2	1124.1	1128.6	1131.9	1132.7
7.5°	1039.7	1058.1	1088.4	1113.0	1128.6	1137.6	1144.2	1142.6	1144.2	1145.0	1146.3
10°	1050.3	1076.1	1112.2	1135.6	1147.5	1147.9	1146.3	1140.5	1137.6	1138.1	1138.9
12.5°	1063.0	1091.7	1130.7	1150.4	1153.6	1144.6	1137.6	1127.8	1124.1	1122.5	1121.7
15°	1080.2	1113.0	1150.8	1158.1	1149.9	1138.5	1126.6	1110.6	1102.4	1095.8	1097.9
17.5°	1101.2	1137.2	1166.3	1161.0	1143.4	1124.5	1105.3	1081.1	1064.3	1057.3	1057.7
20°	1130.3	1162.7	1178.2	1154.9	1128.2	1099.5	1066.7	1037.1	1021.5	1014.5	1013.7
22.5°	1165.5	1196.7	1189.7	1144.2	1106.5	1060.6	1019.5	997.7	989.9	985.0	985.8
25°	1207.9	1234.5	1197.9	1128.6	1070.8	1008.8	977.2	970.3	966.6	962.9	962.9
27.5°	1262.8	1277.1	1204.2	1105.7	1015.0	953.9	942.4	943.6	942.4	936.2	937.5
30°	1335.4	1332.5	1209.9	1068.4	951.0	904.3	905.1	910.4	911.2	907.1	909.2
32.5°	1431.0	1401.9	1212.8	1019.9	889.9	860.7	861.5	867.3	871.4	864.4	867.7
35°	1546.7	1482.7	1208.3	959.2	842.7	819.3	813.1	814.8	816.0	809.4	814.0
37.5°	1681.7	1573.4	1188.1	892.0	803.7	778.7	765.6	754.5	747.9	741.8	745.9
40°	1829.7	1672.2	1151.2	826.3	760.2	735.6	715.9	694.9	672.8	664.6	668.3
42.5°	1984.8	1774.0	1106.5	763.5	710.1	690.0	669.1	638.8	605.6	588.8	590.8
45°	2145.6	1878.2	1062.6	701.5	658.9	650.3	626.1	589.6	553.4	532.1	530.4
47.5°	2303.2	1976.6	998.1	639.2	610.9	620.3	601.5	567.8	527.6	493.9	490.3
50°	2453.7	2069.0	892.8	576.0	571.9	611.3	593.3	544.8	498.9	455.8	452.1
52.5°	2603.1	2143.6	757.8	518.5	550.9	608.8	582.6	529.2	473.0	427.9	423.0
55°	2729.9	2182.2	627.7	469.3	520.6	587.9	569.9	510.8	436.5	388.5	384.4
57.5°	2802.1	2151.0	519.4	421.0	478.8	553.4	548.1	471.4	393.0	356.1	351.2
60°	2770.9	2024.7	430.8	378.6	439.0	516.1	510.3	432.4	359.8	324.9	320.0
62.5°	2599.0	1783.8	360.6	341.7	402.9	478.0	472.6	402.5	334.4	300.7	295.4
65°	2252.7	1451.1	306.1	311.0	366.3	432.0	439.8	377.4	314.3	281.5	276.1
67.5°	1718.2	1051.1	263.4	284.3	330.7	386.8	409.5	359.4	297.5	266.3	261.4
70°	979.3	597.0	227.2	258.5	299.1	345.0	386.0	345.0	279.4	253.6	250.3
72.5°	371.3	274.1	196.5	232.6	268.8	309.8	360.2	322.5	258.5	239.1	235.9
75°	198.1	167.0	165.3	202.2	233.8	275.3	327.8	300.3	242.9	252.8	261.0
77.5°	135.0	118.2	138.3	173.1	195.7	237.1	293.4	266.7	210.4	209.6	193.2
80°	93.6	83.7	112.4	139.5	151.4	199.4	256.0	228.9	171.5	160.0	153.0
82.5°	56.2	54.5	84.2	104.2	107.1	153.9	212.1	192.0	140.3	122.3	123.1
85°	30.7	32.4	53.7	61.1	62.3	107.5	166.2	148.5	107.9	90.7	91.5
87.5°	8.6	11.1	19.7	24.2	29.9	55.8	98.9	88.3	54.1	37.7	37.7
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)