

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: P960548

Luminaire Tested: **NAV-SB1C-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960548
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-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 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: 7039.7 lumens
Efficiency: N/A
Efficacy: 129.4 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

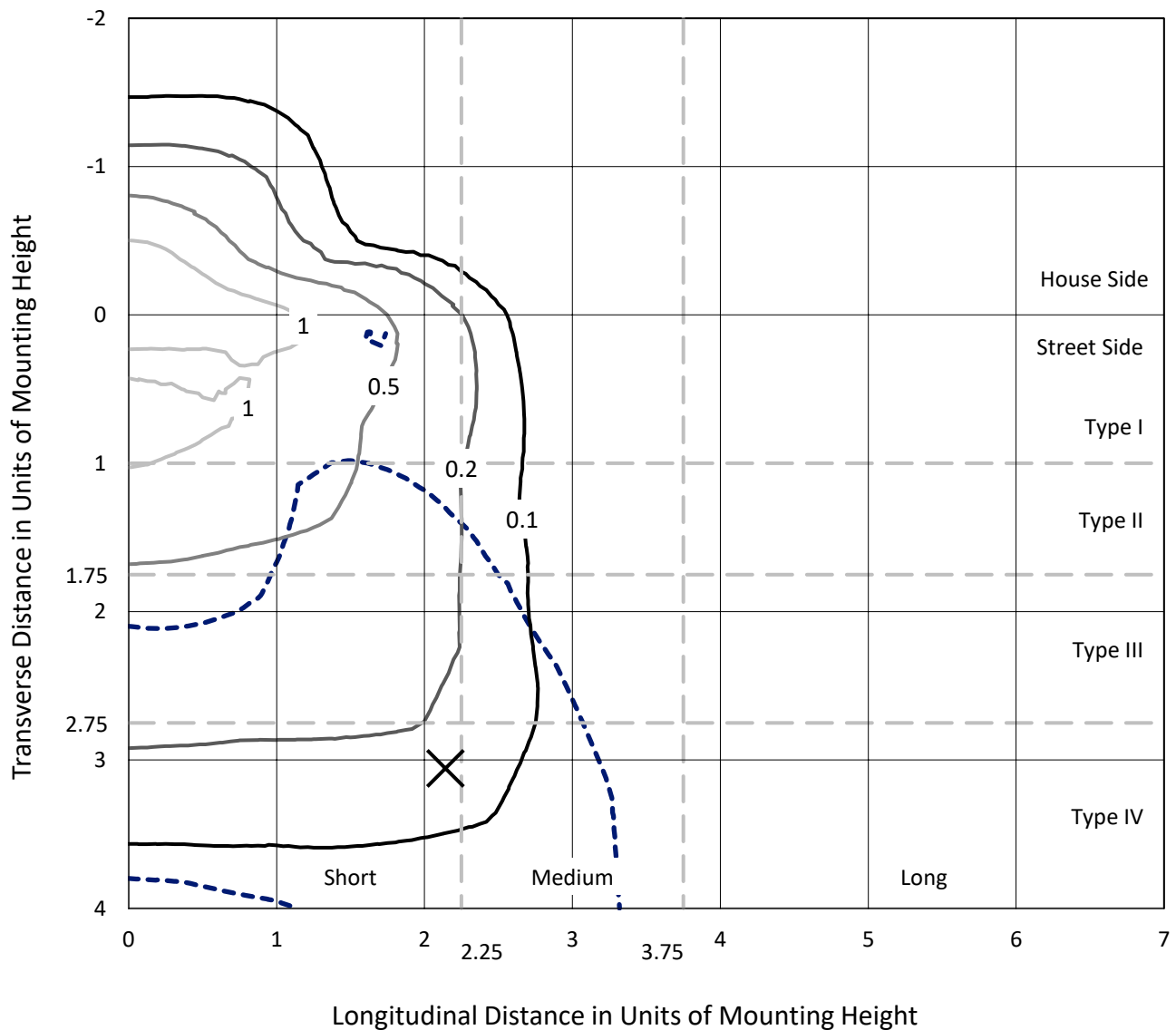


REPORT NUMBER: P960548

CATALOG NUMBER: NAV-SB1C-835-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

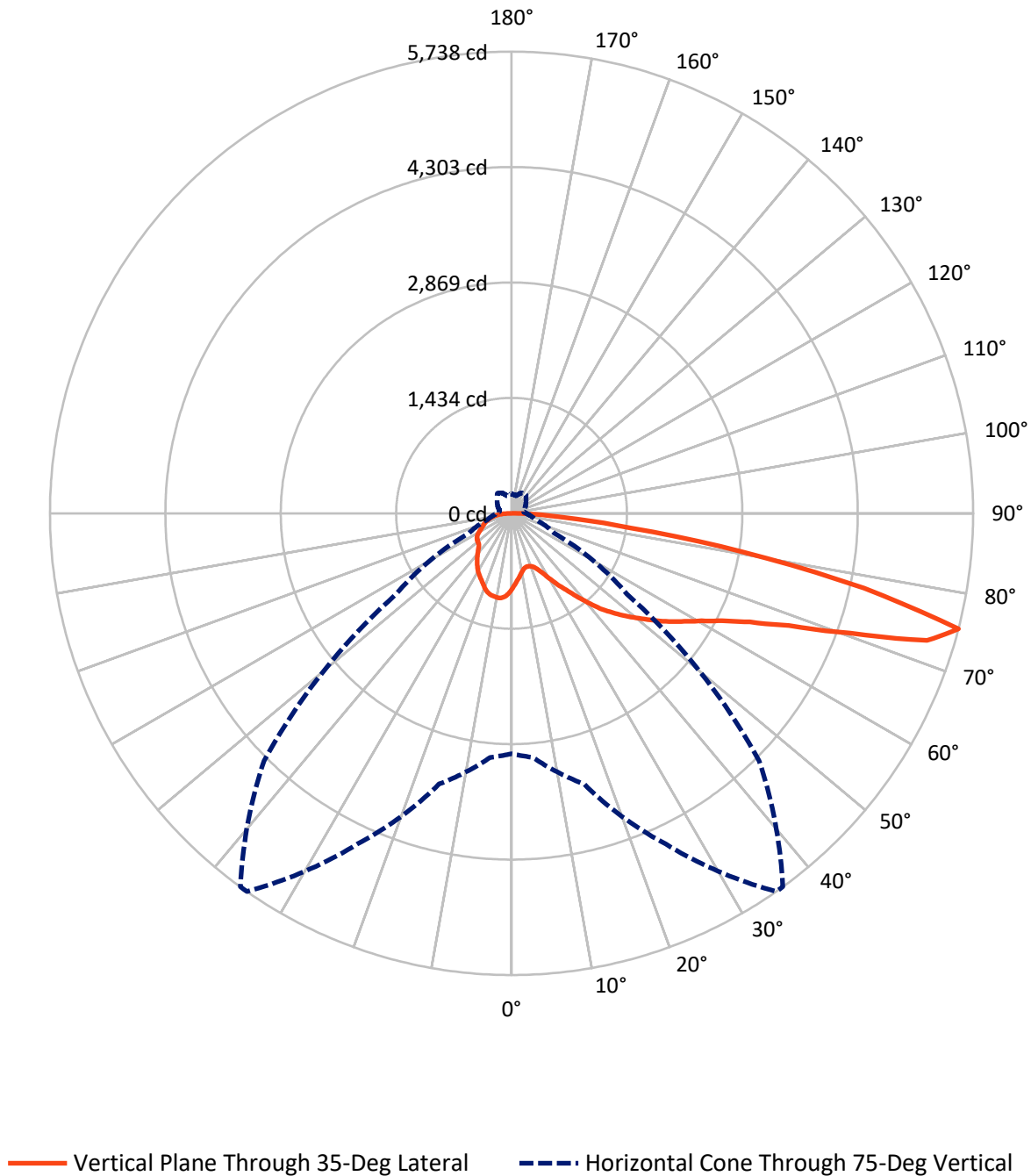
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type IV - Short - N/A

REPORT NUMBER: P960548
CATALOG NUMBER: NAV-SB1C-835-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1675.3	0.0	1675.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5364.4	0.0	5364.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	7039.7	0.0	7039.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.3
10°-20°	256.2	3.6
20°-30°	430.2	6.1
30°-40°	668.6	9.5
40°-50°	992.4	14.1
50°-60°	1370.1	19.5
60°-70°	1662.2	23.6
70°-80°	1373.7	19.5
80°-90°	197.6	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°	7039.7	100.0
0°-180°	7039.7	100.0

Coefficient of Utilization



REPORT NUMBER: P960548

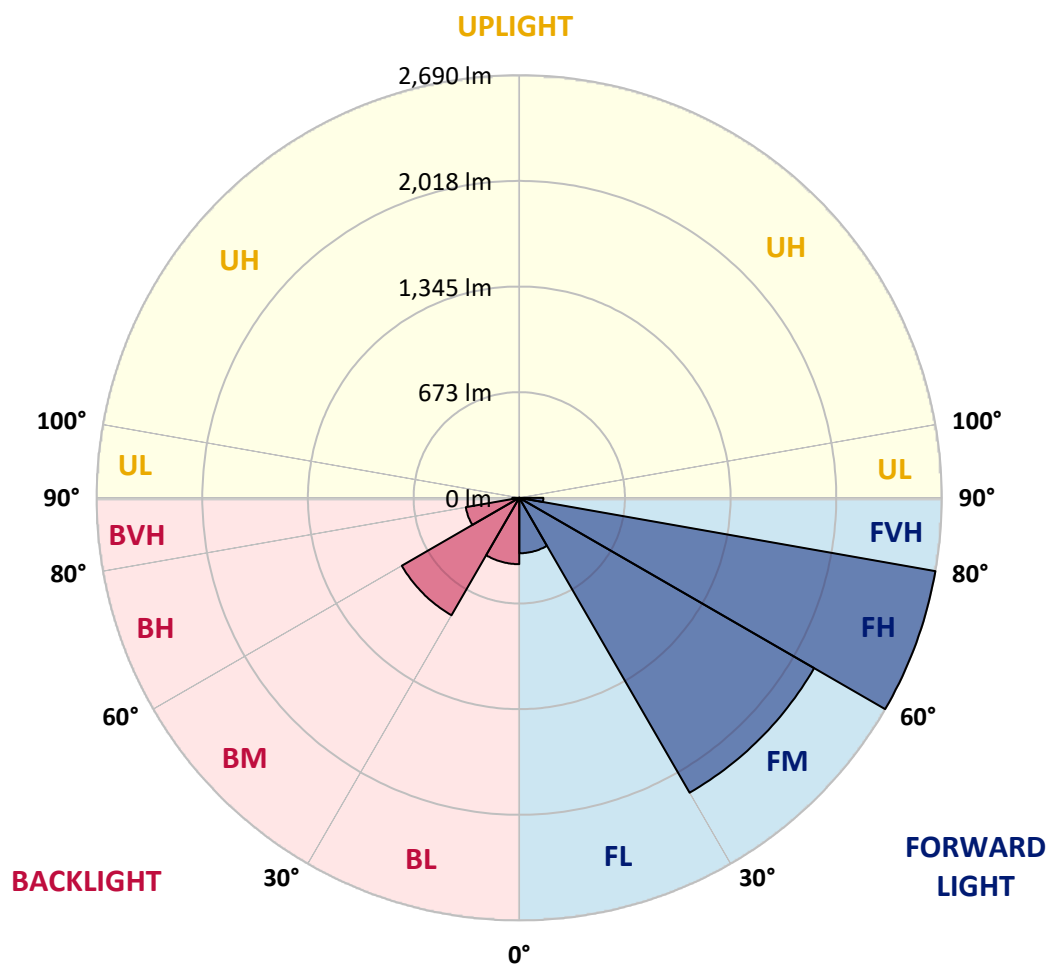
CATALOG NUMBER: NAV-SB1C-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.0	5.0			
FM	(30°-60°)	2167.8	30.8			
FH	(60°-80°)	2690.5	38.2			G2/5000
FVH	(80°-90°)	153.1	2.2			G2/225
BL	(0°-30°)	422.2	6.0	B1/500		
BM	(30°-60°)	863.2	12.3	B1/1000		
BH	(60°-80°)	345.4	4.9	B1/500		G1/500
BVH	(80°-90°)	44.5	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



REPORT NUMBER: P960548

CATALOG NUMBER: NAV-SB1C-835-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1
2.5°	865.0	870.3	872.6	871.5	877.2	876.5	884.5	894.3	908.0	921.4	940.7
5°	798.4	804.1	809.0	813.6	824.7	828.1	840.7	859.7	884.8	910.3	942.3
7.5°	736.4	741.4	749.0	757.3	775.9	779.4	800.3	830.0	865.0	902.3	946.5
10°	685.7	690.7	698.7	708.3	731.4	735.6	762.3	801.9	847.5	894.7	951.0
12.5°	664.1	665.6	670.1	679.7	699.9	702.5	731.8	777.2	830.4	889.0	957.9
15°	663.0	665.9	666.4	671.3	688.1	689.2	716.3	761.2	819.7	887.9	968.1
17.5°	674.3	676.6	673.2	676.3	690.3	692.3	713.6	753.5	816.3	892.8	985.6
20°	704.8	706.7	696.4	692.3	702.5	704.1	725.0	758.5	819.7	903.0	1009.6
22.5°	769.5	770.6	745.5	728.4	729.2	729.9	748.1	778.6	833.0	921.7	1040.1
25°	870.3	869.6	829.6	796.5	777.5	773.3	785.5	811.4	855.5	946.5	1079.3
27.5°	988.3	982.6	942.7	893.2	851.7	845.6	843.0	854.0	887.4	979.2	1127.2
30°	1121.6	1116.2	1073.2	1008.5	951.0	941.2	916.0	910.3	935.0	1023.7	1193.8
32.5°	1267.6	1264.2	1212.9	1134.5	1057.6	1046.2	1003.9	988.7	1008.1	1091.1	1286.7
35°	1390.2	1387.1	1344.5	1263.8	1169.8	1155.8	1112.7	1095.6	1105.6	1177.4	1408.0
37.5°	1500.9	1499.4	1462.9	1399.3	1302.3	1285.1	1236.9	1231.1	1229.2	1291.3	1555.3
40°	1603.7	1599.9	1561.8	1528.4	1456.4	1440.8	1398.2	1393.3	1378.8	1431.3	1722.0
42.5°	1717.5	1707.5	1652.4	1636.8	1617.3	1604.4	1578.9	1579.7	1547.7	1589.3	1898.6
45°	1810.4	1804.6	1747.9	1738.8	1759.7	1754.4	1776.4	1782.2	1720.2	1754.8	2082.1
47.5°	1910.1	1904.8	1856.8	1850.3	1907.0	1908.5	1986.6	1988.4	1888.4	1926.8	2265.9
50°	2033.0	2025.4	1977.7	1985.7	2049.3	2055.0	2197.7	2184.8	2043.2	2101.5	2448.2
52.5°	2114.1	2118.6	2108.3	2121.2	2208.1	2213.4	2405.6	2372.5	2196.6	2273.9	2627.1
55°	2173.8	2182.9	2214.9	2244.5	2375.4	2380.8	2601.6	2550.9	2323.7	2433.7	2795.3
57.5°	2250.7	2237.7	2297.4	2355.3	2534.5	2548.7	2792.2	2722.9	2436.3	2571.4	2910.6
60°	2361.0	2351.9	2398.3	2484.0	2712.7	2735.1	2993.9	2877.8	2518.9	2680.7	2933.0
62.5°	2584.7	2562.0	2569.2	2644.9	2937.1	2966.9	3221.5	3012.9	2560.0	2723.3	2812.7
65°	2919.3	2880.1	2843.6	2896.0	3253.5	3282.8	3478.3	3119.1	2544.9	2640.7	2493.4
67.5°	3340.6	3301.7	3256.8	3306.3	3719.2	3742.5	3795.4	3178.8	2424.9	2322.5	1929.0
70°	3688.1	3673.6	3727.2	3930.9	4463.3	4464.0	4201.8	3129.3	2096.5	1646.7	1116.2
72.5°	3642.0	3633.2	3916.0	4545.5	5400.9	5380.7	4586.6	2754.9	1412.2	742.8	418.2
75°	2987.8	3044.5	3482.5	4534.4	5737.7	5735.1	4351.0	1751.3	584.1	307.9	216.2
77.5°	1602.2	1692.0	2260.9	3347.9	4479.2	4546.6	3059.0	612.7	250.8	197.1	149.5
80°	522.5	601.0	901.2	1704.6	2910.6	2898.0	1311.1	240.5	171.6	139.7	103.5
82.5°	221.9	231.0	402.6	804.9	1493.7	1470.5	417.5	138.2	120.6	95.5	64.0
85°	86.8	97.1	177.7	372.2	647.0	632.8	150.7	68.5	77.3	62.4	38.0
87.5°	28.5	34.6	63.6	127.5	201.3	194.1	36.9	23.6	33.5	28.5	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P960548

CATALOG NUMBER: NAV-SB1C-835-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1
2.5°	946.1	952.1	959.4	970.1	979.2	986.8	994.8	999.8	1001.6	1007.4	1007.0
5°	952.9	966.3	984.1	1001.6	1018.7	1029.0	1038.2	1042.7	1046.9	1050.0	1050.7
7.5°	964.3	981.4	1009.6	1032.5	1046.9	1055.3	1061.4	1059.8	1061.4	1062.1	1063.3
10°	974.3	998.2	1031.7	1053.4	1064.5	1064.8	1063.3	1058.0	1055.3	1055.6	1056.5
12.5°	986.0	1012.7	1048.9	1067.1	1070.1	1061.8	1055.3	1046.2	1042.7	1041.2	1040.5
15°	1002.0	1032.5	1067.4	1074.3	1066.7	1056.1	1045.0	1030.2	1022.5	1016.5	1018.3
17.5°	1021.4	1054.9	1082.0	1077.0	1060.7	1043.1	1025.2	1002.8	987.2	980.7	981.1
20°	1048.5	1078.5	1093.0	1071.3	1046.5	1019.9	989.4	962.1	947.6	941.2	940.3
22.5°	1081.2	1110.1	1103.6	1061.4	1026.3	983.8	945.7	925.6	918.3	913.7	914.5
25°	1120.4	1145.1	1111.2	1046.9	993.2	935.8	906.5	900.1	896.6	893.2	893.2
27.5°	1171.4	1184.7	1116.9	1025.6	941.5	884.8	874.1	875.2	874.1	868.5	869.6
30°	1238.7	1236.0	1122.3	991.0	882.1	838.8	839.5	844.5	845.2	841.4	843.4
32.5°	1327.4	1300.4	1124.9	946.1	825.4	798.4	799.2	804.5	808.3	801.9	804.9
35°	1434.7	1375.3	1120.7	889.8	781.7	759.9	754.3	755.8	757.0	750.8	755.0
37.5°	1559.9	1459.5	1102.1	827.4	745.5	722.3	710.1	699.9	693.7	688.1	691.9
40°	1697.3	1551.1	1067.8	766.5	705.2	682.3	664.1	644.6	624.1	616.5	619.9
42.5°	1841.2	1645.5	1026.3	708.3	658.8	640.1	620.7	592.6	561.7	546.1	548.0
45°	1990.3	1742.2	985.6	650.8	611.2	603.2	580.8	546.8	513.4	493.6	492.1
47.5°	2136.5	1833.5	925.9	593.0	566.6	575.4	557.9	526.7	489.4	458.2	454.8
50°	2276.1	1919.2	828.1	534.3	530.5	567.0	550.3	505.4	462.8	422.8	419.4
52.5°	2414.7	1988.4	702.9	481.0	511.1	564.8	540.4	491.0	438.8	396.9	392.4
55°	2532.3	2024.2	582.3	435.3	483.0	545.3	528.6	473.8	404.9	360.4	356.6
57.5°	2599.2	1995.3	481.7	390.4	444.1	513.4	508.4	437.3	364.6	330.4	325.7
60°	2570.3	1878.1	399.5	351.3	407.2	478.8	473.4	401.1	333.7	301.5	296.8
62.5°	2410.9	1654.7	334.6	317.0	373.7	443.3	438.4	373.3	310.2	278.9	274.0
65°	2089.7	1346.0	283.9	288.4	339.9	400.8	408.0	350.1	291.5	261.1	256.1
67.5°	1593.8	975.0	244.4	263.7	306.8	358.9	379.8	333.3	275.9	247.0	242.4
70°	908.4	553.7	210.8	239.7	277.5	320.0	358.1	320.0	259.1	235.2	232.2
72.5°	344.4	254.2	182.2	215.8	249.3	287.3	334.2	299.1	239.7	221.9	218.8
75°	183.8	154.9	153.3	187.6	216.9	255.3	304.1	278.6	225.3	234.4	242.0
77.5°	125.3	109.6	128.2	160.6	181.5	220.0	272.1	247.3	195.3	194.4	179.3
80°	86.8	77.6	104.2	129.4	140.4	184.9	237.5	212.4	159.1	148.4	142.0
82.5°	52.2	50.6	78.0	96.7	99.3	142.7	196.8	178.1	130.2	113.4	114.2
85°	28.5	30.0	49.8	56.7	57.8	99.7	154.2	137.8	100.0	84.2	84.9
87.5°	8.0	10.2	18.2	22.4	27.8	51.8	91.7	81.8	50.2	35.1	35.1
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)