

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: P960457

Luminaire Tested: **NAV-SB1C-760-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-760-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8107.8 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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



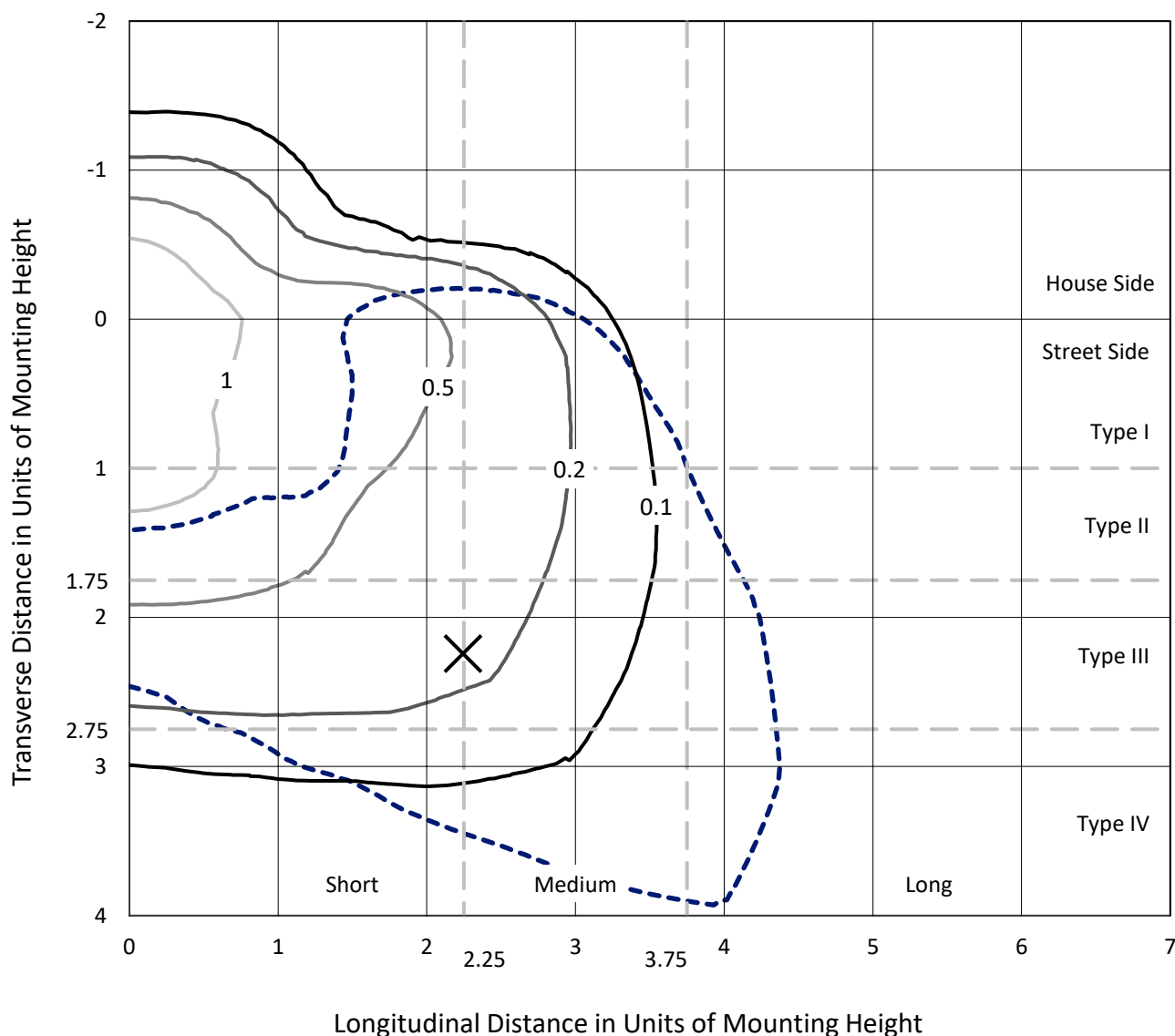
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

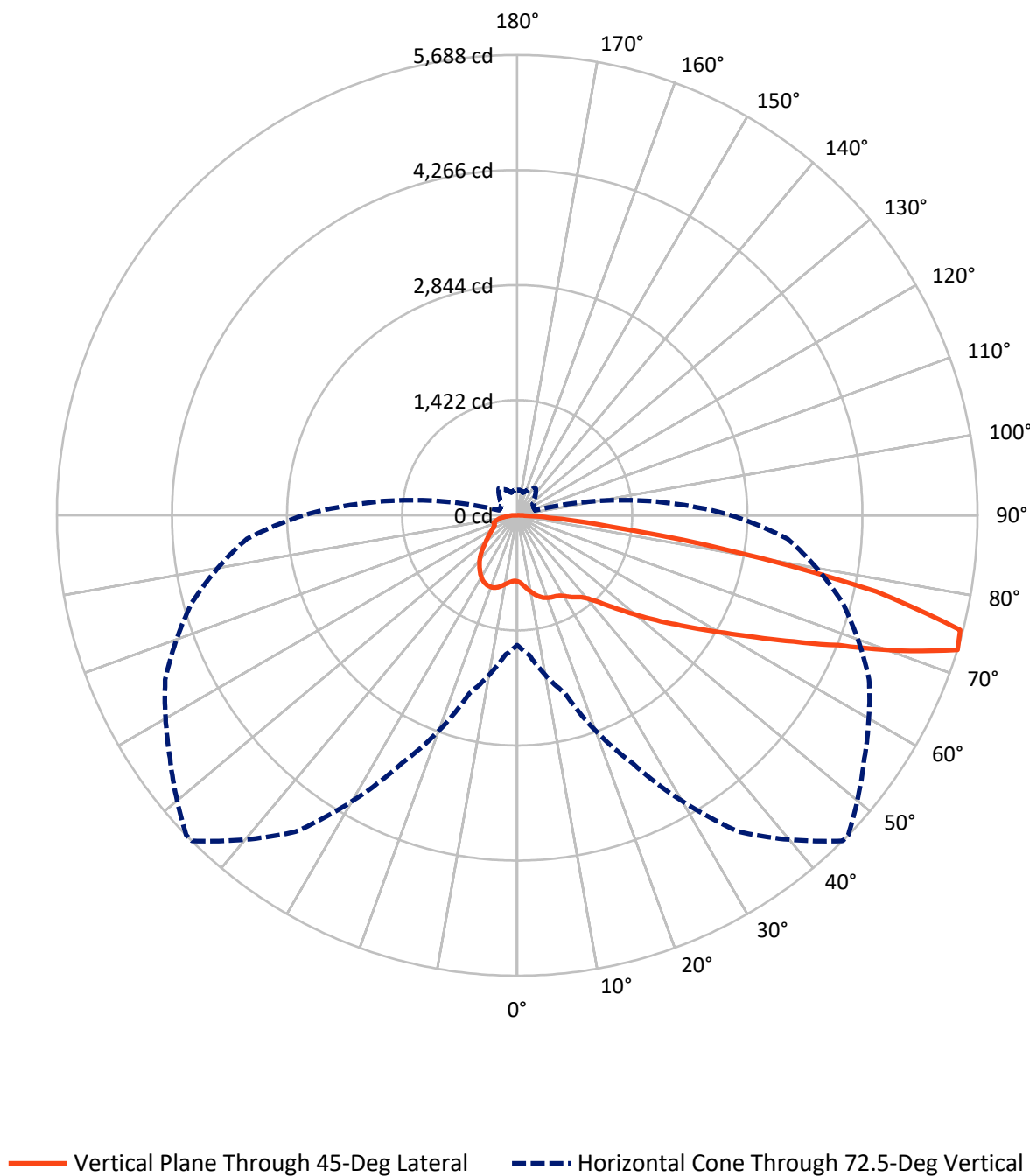


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

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	1832.9	0.0	1832.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	6274.9	0.0	6274.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	8107.8	0.0	8107.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.0
10°-20°	277.6	3.4
20°-30°	482.8	6.0
30°-40°	692.2	8.5
40°-50°	974.6	12.0
50°-60°	1492.8	18.4
60°-70°	2162.6	26.7
70°-80°	1726.9	21.3
80°-90°	215.1	2.7
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°	8107.8	100.0
0°-180°	8107.8	100.0

Coefficient of Utilization



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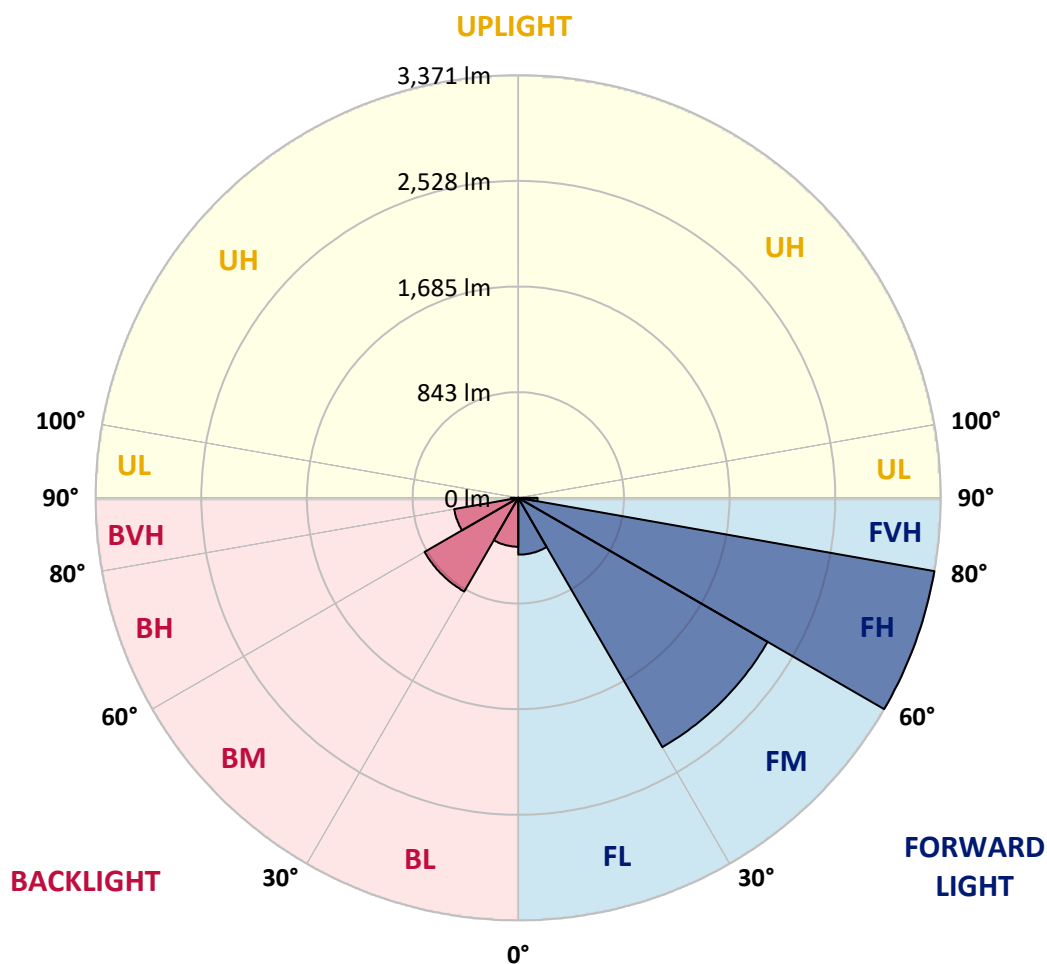
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	453.4	5.6			
FM	(30°-60°)	2296.5	28.3			
FH	(60°-80°)	3370.6	41.6			G2/5000
FVH	(80°-90°)	154.3	1.9			G2/225
BL	(0°-30°)	390.2	4.8	B1/500		
BM	(30°-60°)	863.0	10.6	B1/1000		
BH	(60°-80°)	518.8	6.4	B2/1000		G2/1000
BVH	(80°-90°)	60.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9
2.5°	849.9	855.5	850.3	845.7	843.6	837.9	837.5	834.1	832.0	826.0	824.3
5°	909.3	916.6	908.0	898.6	890.1	876.5	874.7	864.9	853.8	841.0	833.7
7.5°	976.4	982.8	972.9	958.9	943.9	921.3	920.9	902.9	885.4	863.7	851.3
10°	1034.8	1043.4	1030.2	1011.0	992.2	966.6	963.6	943.1	920.9	892.7	873.9
12.5°	1086.6	1092.5	1079.7	1056.3	1034.4	1008.8	1005.0	982.4	957.6	925.6	901.6
15°	1127.6	1135.3	1118.2	1093.0	1069.9	1044.7	1041.3	1020.8	996.0	962.3	931.5
17.5°	1154.5	1160.9	1143.4	1115.2	1093.0	1072.0	1069.5	1052.4	1030.6	996.4	963.6
20°	1164.7	1171.6	1153.2	1124.5	1104.0	1087.8	1086.6	1074.2	1059.2	1028.1	994.8
22.5°	1175.0	1181.4	1157.4	1127.6	1109.7	1099.4	1098.9	1090.8	1084.9	1059.2	1026.7
25°	1216.4	1218.1	1186.1	1143.0	1117.4	1108.3	1107.9	1107.5	1110.1	1090.0	1061.4
27.5°	1252.2	1251.8	1224.6	1184.0	1144.2	1125.4	1125.0	1129.2	1137.4	1120.7	1097.3
30°	1304.8	1300.1	1267.6	1225.4	1189.1	1160.0	1157.4	1153.6	1160.0	1146.8	1133.1
32.5°	1416.3	1401.4	1348.8	1273.7	1226.2	1204.1	1200.6	1176.7	1179.3	1171.2	1164.3
35°	1576.0	1556.4	1486.4	1365.0	1272.3	1240.8	1239.0	1208.7	1203.6	1196.4	1198.9
37.5°	1766.1	1741.8	1660.2	1497.4	1351.8	1283.5	1280.9	1253.6	1232.7	1225.0	1239.4
40°	1957.0	1926.3	1858.7	1658.9	1468.8	1354.7	1346.6	1305.2	1281.4	1268.5	1299.3
42.5°	2142.4	2116.7	2059.1	1840.0	1613.1	1459.0	1441.0	1370.1	1352.2	1340.3	1395.7
45°	2306.4	2283.3	2241.1	2033.5	1782.4	1600.8	1583.3	1467.6	1462.0	1462.0	1542.3
47.5°	2439.6	2434.5	2389.7	2230.8	1981.8	1762.3	1731.9	1602.9	1617.9	1640.9	1750.3
50°	2587.4	2573.4	2525.5	2425.1	2216.3	1947.2	1922.4	1769.0	1825.0	1888.3	2051.0
52.5°	2723.2	2730.9	2677.5	2627.6	2481.1	2153.5	2110.0	1965.1	2086.0	2190.6	2403.3
55°	2862.9	2863.3	2848.4	2841.6	2758.7	2381.6	2333.7	2200.9	2393.1	2522.9	2814.2
57.5°	2994.0	2994.8	3017.1	3077.4	3080.7	2644.7	2590.4	2490.4	2734.4	2866.7	3237.9
60°	3111.1	3117.0	3177.7	3318.6	3363.9	2946.2	2894.9	2832.6	3087.1	3220.4	3683.4
62.5°	3150.3	3172.2	3307.1	3507.4	3643.7	3316.1	3265.6	3228.5	3457.8	3581.8	4055.8
65°	3083.7	3133.7	3394.7	3663.4	3931.5	3755.6	3705.6	3665.0	3843.1	3959.8	4361.7
67.5°	2920.1	2984.6	3389.6	3826.9	4280.9	4284.3	4237.8	4142.5	4256.1	4301.0	4461.1
70°	2489.2	2585.8	3091.0	3887.9	4682.0	5007.4	4962.5	4717.5	4668.3	4451.4	4181.0
72.5°	1603.8	1733.7	2276.1	3385.3	4771.3	5687.8	5685.3	5236.3	4798.5	4159.1	3353.2
75°	585.2	664.6	1057.5	2124.8	4005.0	5653.2	5669.9	5147.5	4380.4	3212.8	2089.0
77.5°	213.1	233.2	345.1	816.6	2463.2	4535.9	4570.5	4115.2	3117.9	1612.3	827.7
80°	111.9	123.0	176.8	316.9	1055.3	2693.8	2748.0	2445.6	1465.4	485.6	248.2
82.5°	61.9	67.0	99.1	172.1	475.4	1151.9	1184.4	966.2	515.5	205.8	102.5
85°	33.3	35.5	46.5	94.0	232.4	399.3	408.4	288.7	205.4	120.8	49.5
87.5°	9.8	12.0	15.4	29.9	91.0	89.7	91.8	57.2	81.2	61.1	16.2
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°	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9
2.5°	821.7	820.5	815.8	813.6	811.1	810.7	812.8	813.2	813.6	814.1	815.8
5°	829.4	825.1	820.9	818.4	819.2	819.6	823.9	826.9	829.0	830.8	831.6
7.5°	844.4	841.0	833.7	833.3	834.6	838.4	844.0	850.9	854.6	857.6	858.5
10°	866.6	860.2	851.7	852.9	855.5	861.1	872.6	878.1	884.6	890.1	888.8
12.5°	889.3	883.7	873.9	874.7	879.0	888.8	900.0	906.7	911.0	915.3	917.0
15°	918.7	908.9	898.2	898.2	905.9	916.6	921.7	927.2	929.8	934.5	936.2
17.5°	949.0	936.2	922.1	921.3	930.7	935.8	938.8	939.6	940.5	945.7	947.3
20°	979.4	965.2	945.2	943.5	945.7	944.7	944.3	943.5	944.7	951.2	953.8
22.5°	1009.2	993.0	965.2	957.6	951.6	943.5	943.1	942.6	943.5	949.9	954.2
25°	1044.3	1024.6	987.5	964.4	944.3	933.3	934.5	934.9	935.8	941.0	947.7
27.5°	1082.3	1060.5	1008.0	962.3	926.0	918.3	916.1	917.5	920.4	928.5	936.6
30°	1120.3	1094.7	1026.7	953.8	902.9	892.3	885.4	888.4	897.8	905.9	914.9
32.5°	1154.9	1129.2	1041.7	934.9	873.4	856.8	847.8	851.7	861.1	864.1	874.7
35°	1195.5	1166.4	1048.2	905.1	841.4	815.8	803.8	798.3	803.0	800.0	809.3
37.5°	1240.8	1210.4	1047.2	865.7	803.8	774.4	757.7	736.8	726.9	716.7	723.1
40°	1307.8	1264.2	1037.0	818.4	757.3	730.3	700.5	665.0	642.8	622.7	624.0
42.5°	1399.2	1339.0	1018.2	766.2	704.7	679.6	639.0	597.6	562.5	529.2	526.2
45°	1535.4	1436.8	994.8	710.7	647.9	623.2	579.1	532.6	492.9	450.2	445.1
47.5°	1731.9	1568.4	972.5	647.5	588.1	565.5	525.7	482.7	435.6	394.2	389.5
50°	2001.8	1757.2	952.0	586.0	529.2	512.1	480.5	436.5	389.1	355.8	353.6
52.5°	2345.3	2013.8	943.5	526.6	474.1	467.7	442.5	401.5	356.6	328.4	326.4
55°	2739.5	2320.9	943.5	469.9	425.8	427.9	410.4	372.5	333.5	308.4	305.9
57.5°	3141.8	2631.9	926.4	417.3	384.8	393.8	382.7	349.4	314.4	288.3	284.0
60°	3512.6	2892.3	857.2	369.4	348.5	362.6	355.4	326.8	284.0	262.2	258.8
62.5°	3797.4	3039.3	724.0	331.5	318.7	334.9	331.0	296.8	278.5	269.5	266.5
65°	3940.1	3015.3	553.5	297.7	293.5	318.7	310.5	309.2	294.7	284.4	281.1
67.5°	3852.6	2809.5	401.5	273.0	278.9	303.7	334.9	340.0	313.0	293.0	289.6
70°	3468.6	2437.0	299.0	249.4	260.6	304.1	381.8	355.8	307.1	283.6	279.7
72.5°	2638.7	1817.3	232.0	224.7	236.6	306.3	402.7	348.5	290.0	313.5	311.0
75°	1509.0	997.7	186.2	194.3	206.7	286.2	392.1	329.7	276.8	287.9	287.9
77.5°	575.3	383.6	153.8	164.4	166.2	249.9	375.0	328.4	263.5	257.1	234.5
80°	199.5	150.0	127.3	130.7	128.5	222.1	359.7	285.8	215.7	193.0	186.7
82.5°	81.6	74.7	100.8	96.6	91.4	172.5	290.5	233.6	176.4	155.9	154.2
85°	35.5	47.5	66.6	58.5	53.0	119.6	232.8	197.7	149.0	128.5	128.1
87.5°	7.3	17.9	28.2	26.4	27.4	79.8	165.3	140.5	105.5	79.0	61.9
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)