

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: P961848

Luminaire Tested: **NAV-SB2B-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9541.7 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

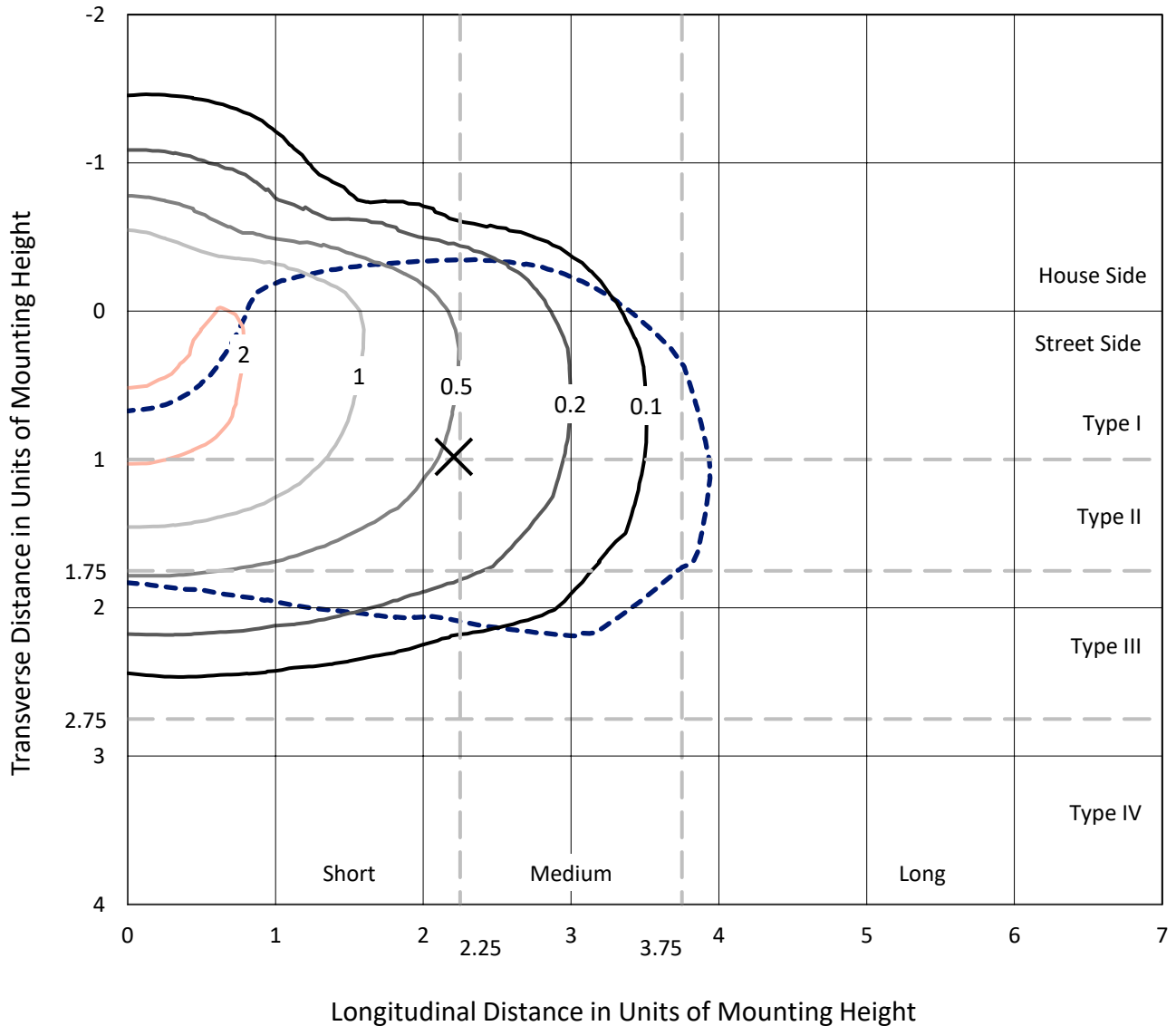
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

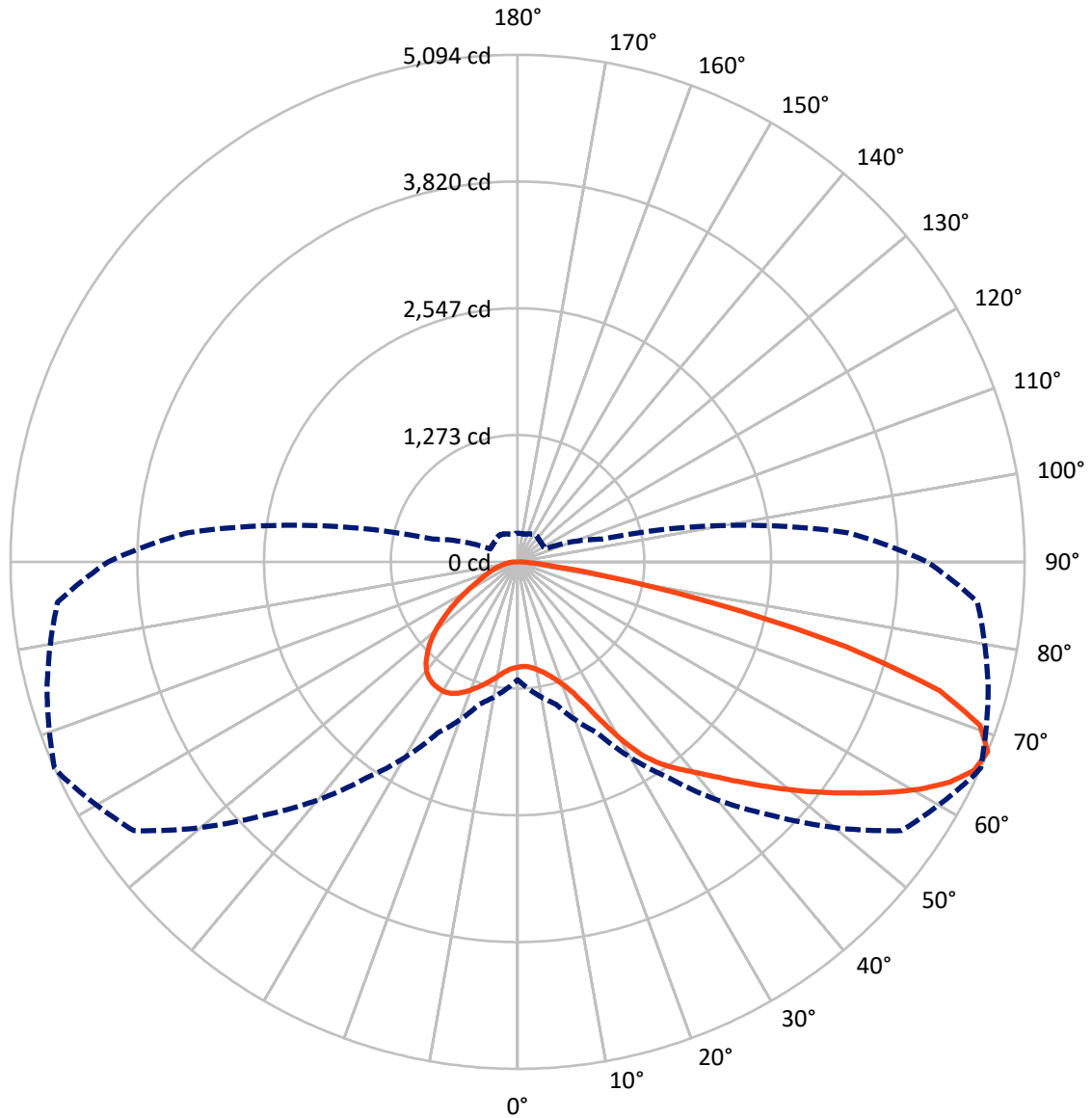
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2372.5	0.0	2372.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7169.2	0.0	7169.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	9541.7	0.0	9541.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.1
10°-20°	346.7	3.6
20°-30°	668.2	7.0
30°-40°	1171.6	12.3
40°-50°	1741.7	18.3
50°-60°	2207.8	23.1
60°-70°	2160.3	22.6
70°-80°	1030.5	10.8
80°-90°	110.1	1.2
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°	9541.7	100.0
0°-180°	9541.7	100.0

Coefficient of Utilization

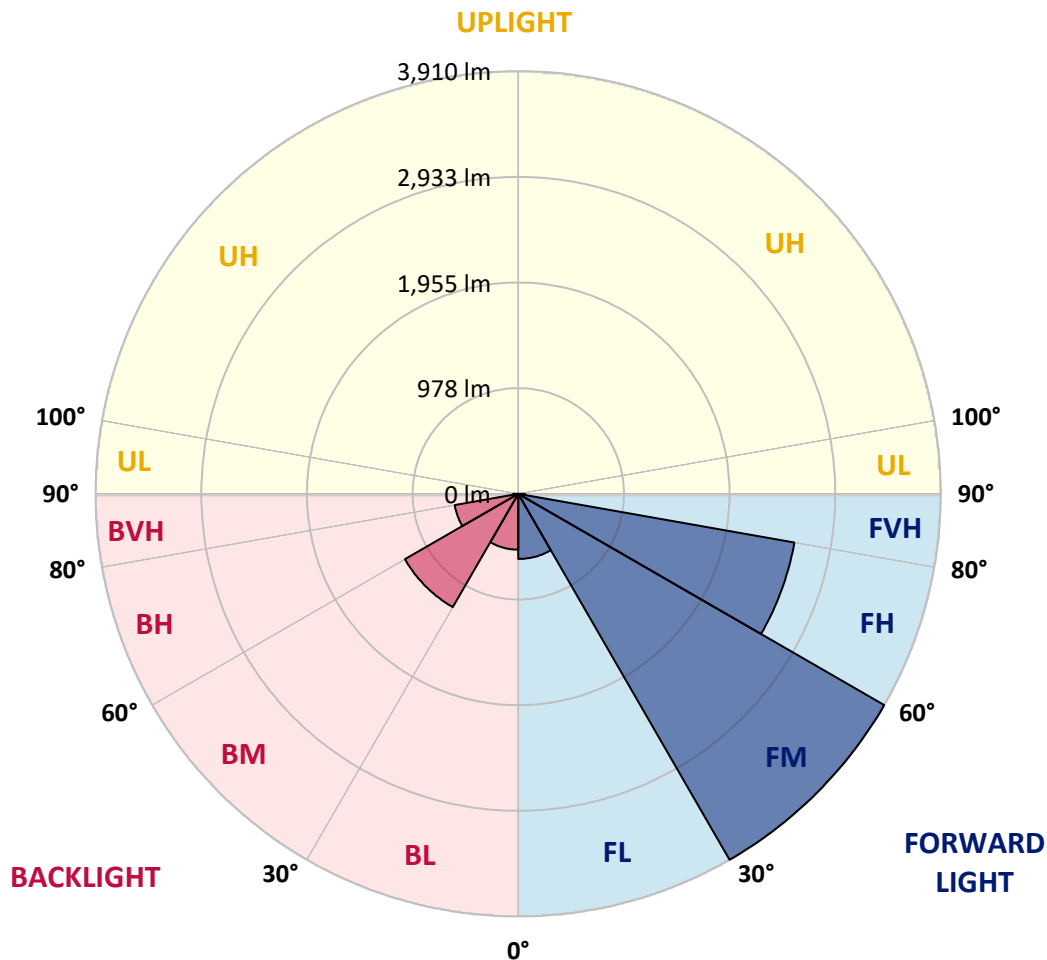


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.9	6.3			
FM (30°-60°)	3910.1	41.0			
FH (60°-80°)	2593.7	27.2			G2/5000
FVH (80°-90°)	62.4	0.7			G1/100
BL (0°-30°)	516.8	5.4	B2/1000		
BM (30°-60°)	1211.0	12.7	B2/2500		
BH (60°-80°)	597.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	47.7	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3
2.5°	1047.2	1053.3	1051.8	1049.3	1048.8	1049.8	1051.2	1052.8	1052.3	1054.8	1058.8
5°	1044.3	1050.3	1049.8	1049.8	1051.8	1055.8	1058.3	1060.8	1058.3	1061.3	1066.8
7.5°	1046.3	1050.8	1052.8	1054.8	1059.8	1067.3	1073.4	1078.8	1075.8	1079.3	1086.4
10°	1071.8	1075.3	1077.4	1077.4	1080.9	1089.4	1095.4	1105.5	1102.9	1108.4	1117.5
12.5°	1118.5	1122.0	1122.0	1120.0	1122.5	1128.0	1130.0	1141.0	1136.5	1145.5	1154.6
15°	1175.6	1182.6	1177.1	1173.6	1174.6	1180.1	1179.7	1188.2	1183.7	1191.2	1199.1
17.5°	1238.8	1247.8	1238.8	1238.3	1236.3	1242.3	1242.8	1250.3	1242.3	1247.8	1253.4
20°	1313.4	1326.0	1318.5	1321.0	1316.5	1319.0	1321.5	1332.5	1320.0	1324.0	1322.5
22.5°	1418.8	1433.8	1425.8	1435.3	1432.3	1430.3	1429.8	1449.4	1429.8	1431.3	1416.8
25°	1572.1	1590.2	1576.1	1589.2	1589.2	1595.7	1603.2	1628.3	1595.7	1586.2	1548.6
27.5°	1798.8	1816.8	1789.2	1797.2	1794.8	1810.8	1802.8	1865.0	1829.8	1814.4	1738.6
30°	2071.5	2103.6	2051.4	2049.4	2046.9	2072.4	2084.0	2125.1	2089.6	2074.0	1982.8
32.5°	2366.3	2399.8	2337.7	2319.7	2310.1	2325.6	2316.1	2349.2	2324.7	2300.6	2187.8
35°	2678.1	2711.2	2652.0	2616.9	2578.8	2546.2	2512.2	2520.7	2497.6	2461.0	2344.2
37.5°	2972.9	3033.5	2970.9	2933.2	2863.1	2799.4	2704.2	2664.6	2643.0	2609.4	2491.6
40°	3273.1	3307.8	3260.1	3228.0	3151.9	3052.0	2899.7	2816.0	2786.9	2754.3	2654.5
42.5°	3494.2	3527.3	3501.8	3479.7	3420.0	3304.3	3107.2	3002.4	2960.3	2923.7	2839.0
45°	3669.7	3694.3	3678.2	3686.3	3660.7	3548.4	3322.3	3202.5	3158.8	3114.3	3047.5
47.5°	3740.4	3766.5	3792.1	3839.6	3883.3	3800.6	3553.4	3419.1	3373.0	3327.4	3261.7
50°	3732.4	3759.0	3833.2	3934.5	4069.8	4042.2	3797.0	3649.7	3607.1	3554.9	3494.2
52.5°	3668.2	3698.3	3793.5	3962.0	4177.6	4223.2	4045.3	3887.8	3847.6	3785.5	3724.8
55°	3499.8	3517.8	3660.7	3899.3	4203.1	4349.5	4288.4	4141.5	4101.3	4014.6	3948.5
57.5°	3187.4	3213.5	3421.6	3730.4	4139.0	4435.3	4501.9	4408.2	4369.6	4244.7	4175.5
60°	2779.9	2821.5	3059.6	3446.7	3975.6	4434.8	4695.9	4670.4	4638.3	4471.4	4399.2
62.5°	2318.7	2366.7	2595.9	3045.6	3689.8	4308.9	4817.3	4890.0	4873.4	4680.4	4588.1
65°	1780.7	1813.8	2041.9	2526.7	3245.0	4038.7	4831.3	5039.8	5042.9	4839.3	4686.9
67.5°	1185.6	1280.9	1478.9	1896.0	2649.5	3597.0	4707.9	5064.4	5093.5	4894.0	4637.3
70°	578.5	703.9	897.9	1232.3	1896.0	2919.7	4385.7	4862.9	4927.6	4734.6	4341.5
72.5°	240.2	280.7	386.5	608.1	1088.3	1970.3	3737.9	4316.5	4436.3	4195.1	3650.1
75°	162.0	175.5	221.1	311.8	495.8	971.6	2695.6	3218.5	3411.5	3168.4	2589.9
77.5°	124.8	133.4	160.9	218.1	294.8	367.5	1442.8	1939.6	2039.4	1888.0	1347.6
80°	98.3	104.8	120.3	158.9	209.1	196.5	491.8	878.8	936.4	785.6	433.2
82.5°	85.2	87.7	86.2	107.8	138.9	114.8	161.4	324.3	357.9	259.7	141.3
85°	61.7	68.7	71.6	66.7	73.7	58.1	66.2	114.8	126.4	112.7	79.7
87.5°	25.1	37.1	45.6	43.2	27.1	16.5	20.6	33.6	38.6	42.1	26.0
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°	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3	1058.3
2.5°	1059.3	1062.8	1065.3	1068.4	1070.3	1073.4	1079.3	1082.9	1083.3	1085.9	1085.4
5°	1068.9	1073.9	1079.3	1087.4	1096.4	1103.9	1115.4	1123.5	1126.5	1129.0	1128.5
7.5°	1089.4	1096.4	1106.4	1120.4	1133.5	1143.5	1157.5	1167.1	1176.6	1180.1	1180.6
10°	1120.0	1130.0	1144.5	1163.6	1177.6	1190.6	1205.2	1213.2	1222.7	1226.7	1228.8
12.5°	1158.0	1168.6	1187.7	1214.2	1227.2	1236.3	1241.3	1239.3	1241.3	1244.8	1245.8
15°	1201.7	1213.2	1234.8	1263.3	1272.3	1264.3	1253.4	1243.3	1241.8	1242.8	1246.3
17.5°	1253.4	1261.9	1286.9	1311.0	1304.4	1271.4	1247.3	1231.2	1223.2	1220.8	1224.3
20°	1325.5	1325.5	1346.0	1361.1	1317.5	1261.4	1223.7	1197.7	1181.1	1174.1	1172.6
22.5°	1413.3	1405.2	1418.3	1407.7	1315.0	1233.3	1181.1	1136.0	1110.9	1101.0	1099.4
25°	1524.6	1515.1	1511.5	1446.4	1296.9	1188.7	1103.9	1049.3	1027.3	1021.7	1022.7
27.5°	1692.5	1668.4	1622.8	1467.4	1263.8	1118.5	1013.7	963.1	950.5	951.0	952.5
30°	1916.0	1868.0	1756.1	1470.9	1209.7	1019.2	921.5	885.4	879.3	881.8	890.3
32.5°	2123.1	2077.5	1892.6	1454.9	1126.5	922.0	838.8	814.7	805.6	808.6	812.6
35°	2285.5	2273.0	2018.8	1432.3	1024.2	830.7	764.5	743.9	726.4	722.4	725.4
37.5°	2439.0	2434.0	2113.5	1400.7	922.9	766.0	704.9	677.8	652.2	638.2	638.7
40°	2607.4	2602.4	2175.8	1352.1	833.2	709.9	651.2	615.6	584.0	558.5	561.0
42.5°	2796.9	2767.3	2205.4	1282.4	757.0	662.3	607.6	559.4	517.8	494.4	495.8
45°	3004.0	2937.2	2204.9	1193.6	692.8	618.6	561.0	492.8	454.2	432.1	431.1
47.5°	3223.5	3099.7	2177.8	1095.4	630.7	570.5	488.8	436.6	411.1	397.6	394.5
50°	3450.2	3251.6	2131.7	982.6	567.0	515.9	443.7	408.1	388.6	376.0	371.5
52.5°	3663.2	3389.5	2076.0	854.7	502.4	462.7	423.6	396.1	375.5	361.4	355.5
55°	3861.3	3508.3	1997.3	724.0	449.7	427.1	414.1	391.0	367.5	351.0	344.4
57.5°	4037.2	3585.4	1861.4	601.1	412.0	402.5	404.1	382.5	355.5	341.4	332.4
60°	4183.5	3642.1	1660.4	487.3	381.5	378.5	388.6	366.4	334.9	318.9	311.8
62.5°	4271.3	3641.1	1413.8	399.0	355.5	356.5	368.0	346.4	314.4	299.3	294.8
65°	4263.8	3551.9	1143.0	341.4	330.4	331.4	346.4	324.3	297.2	288.2	287.7
67.5°	4112.9	3334.3	876.8	303.8	302.8	307.3	324.8	309.3	286.8	285.8	287.3
70°	3704.3	2882.6	631.7	273.7	274.2	280.7	303.8	299.8	281.3	283.2	282.8
72.5°	2970.3	2197.8	424.1	242.1	242.6	253.2	283.7	292.2	275.7	302.3	306.3
75°	1978.2	1370.6	272.8	208.6	209.1	222.6	266.2	277.8	260.7	301.2	303.8
77.5°	950.5	616.1	197.5	175.5	175.5	188.0	230.1	248.7	222.1	234.1	214.5
80°	328.4	231.6	155.4	141.3	138.4	146.9	194.0	215.6	191.5	176.5	165.4
82.5°	129.4	120.3	124.8	109.8	99.7	105.3	150.9	177.9	140.8	127.3	126.8
85°	74.2	78.2	88.3	72.7	57.6	64.7	110.8	127.8	106.3	93.8	95.7
87.5°	20.1	27.6	40.6	37.6	26.0	27.6	52.7	70.7	61.2	47.2	48.6
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)