

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: P961850

Luminaire Tested: **NAV-SB2B-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961850  
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-SB2B-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9423.8 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

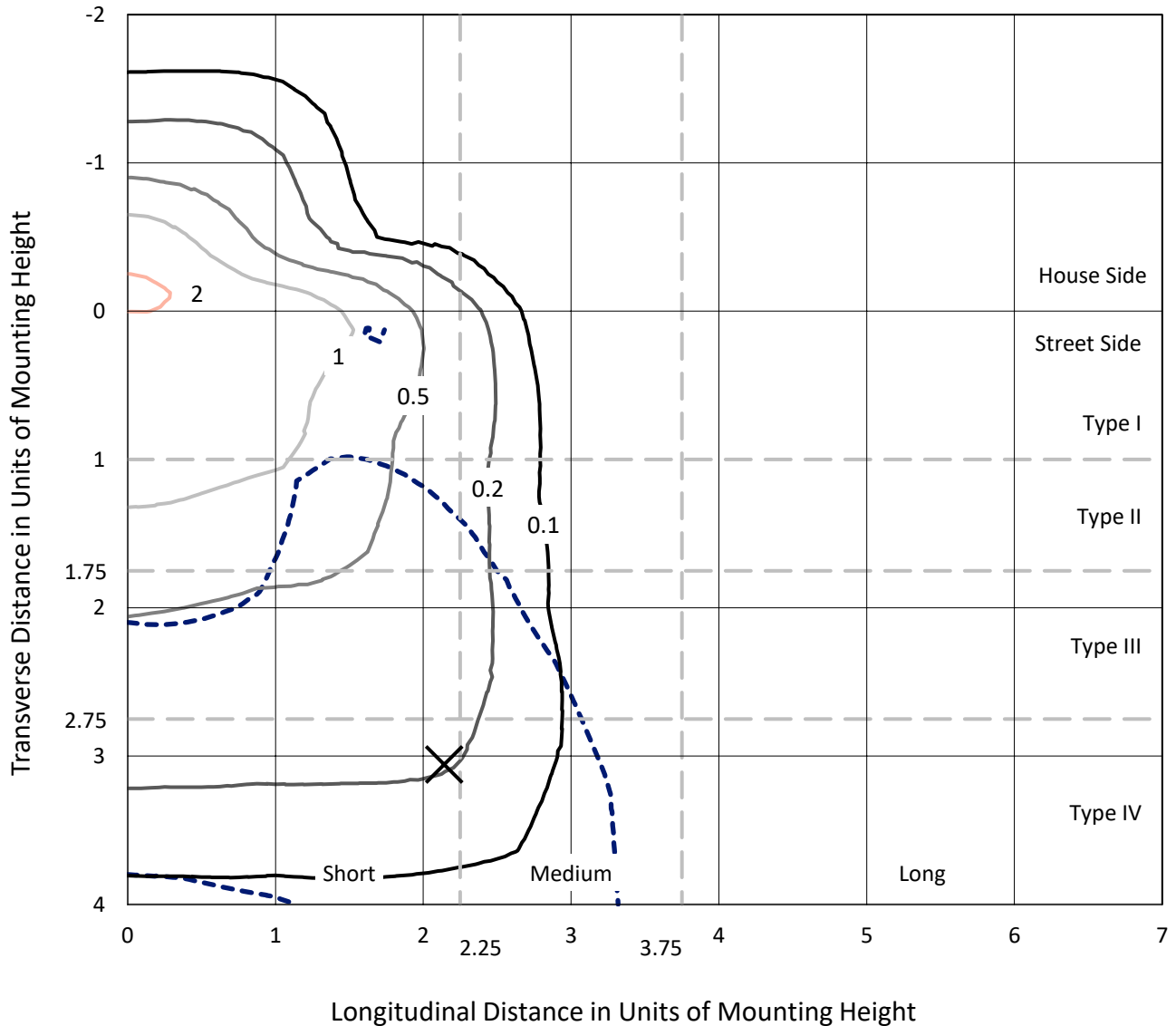
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

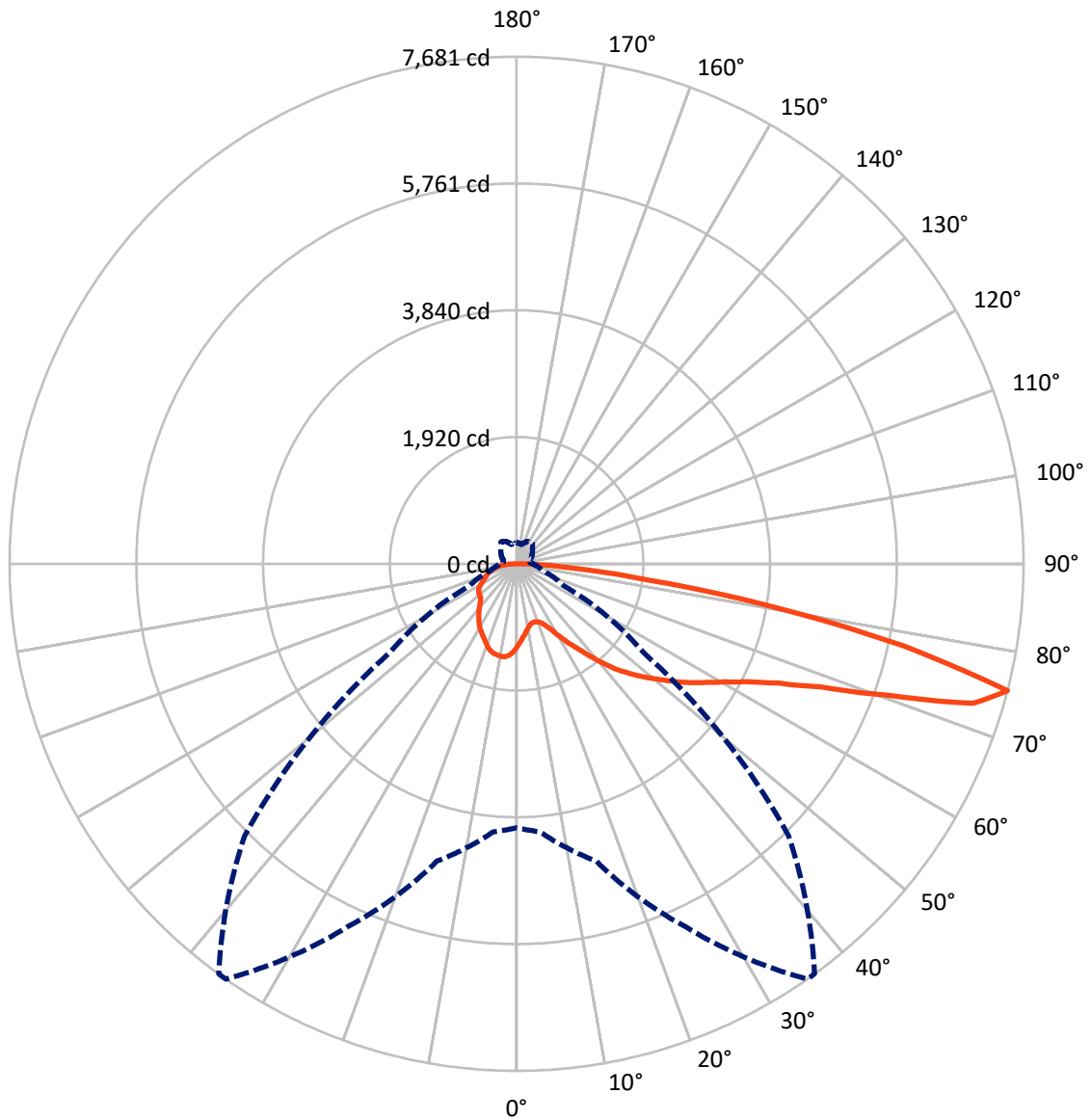
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2242.6	0.0	2242.6
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	7181.2	0.0	7181.2
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	9423.8	0.0	9423.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	1.3
10°-20°	343.0	3.6
20°-30°	575.9	6.1
30°-40°	895.0	9.5
40°-50°	1328.5	14.1
50°-60°	1834.0	19.5
60°-70°	2225.1	23.6
70°-80°	1838.9	19.5
80°-90°	264.5	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°	9423.8	100.0
0°-180°	9423.8	100.0

**Coefficient of Utilization**



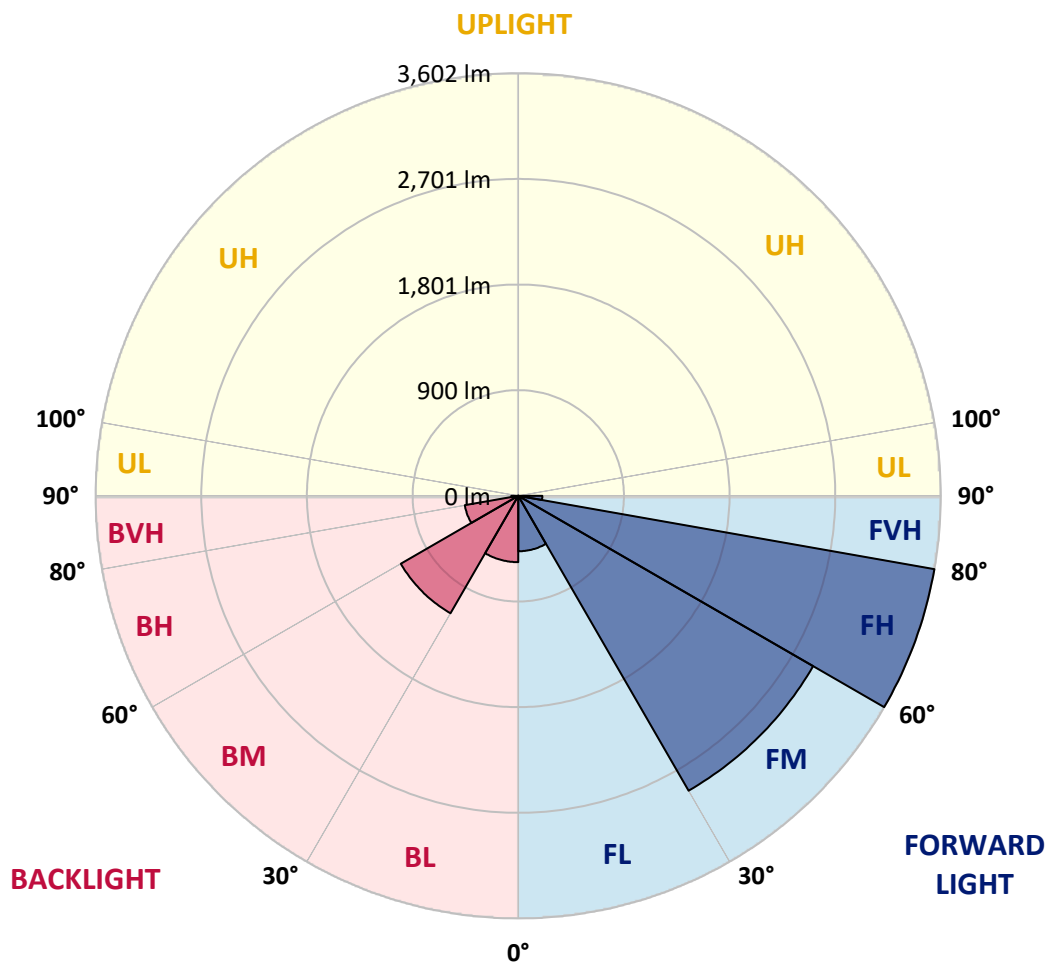
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.6	5.0			
FM (30°-60°)	2902.0	30.8			
FH (60°-80°)	3601.7	38.2			G2/5000
FVH (80°-90°)	204.9	2.2			G2/225
BL (0°-30°)	565.2	6.0	B2/1000		
BM (30°-60°)	1155.5	12.3	B2/2500		
BH (60°-80°)	462.4	4.9	B1/500		G1/500
BVH (80°-90°)	59.6	0.6			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°	36°	45°	55°	65°	75°	85°
0°	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8
2.5°	1157.9	1165.1	1168.2	1166.7	1174.2	1173.2	1184.0	1197.2	1215.5	1233.4	1259.3
5°	1068.9	1076.5	1083.1	1089.2	1103.9	1108.5	1125.3	1150.9	1184.5	1218.6	1261.4
7.5°	985.7	992.4	1002.6	1013.8	1038.7	1043.3	1071.3	1111.1	1157.9	1207.9	1267.0
10°	918.0	924.7	935.3	948.1	979.2	984.7	1020.4	1073.4	1134.6	1197.7	1273.2
12.5°	889.0	891.0	897.2	909.9	936.8	940.4	979.7	1040.3	1111.6	1190.0	1282.3
15°	887.4	891.5	892.1	898.6	921.1	922.6	958.8	1018.8	1097.4	1188.6	1296.0
17.5°	902.7	905.8	901.2	905.3	924.1	926.7	955.2	1008.7	1092.8	1195.1	1319.5
20°	943.5	946.1	932.3	926.7	940.4	942.5	970.5	1015.4	1097.4	1208.9	1351.6
22.5°	1030.1	1031.7	998.0	975.1	976.1	977.1	1001.5	1042.3	1115.2	1233.9	1392.4
25°	1165.1	1164.1	1110.6	1066.3	1040.8	1035.2	1051.5	1086.2	1145.2	1267.0	1444.8
27.5°	1323.1	1315.4	1261.9	1195.7	1140.1	1132.0	1128.4	1143.2	1188.1	1310.8	1509.0
30°	1501.3	1494.2	1436.6	1350.0	1273.2	1259.8	1226.2	1218.6	1251.7	1370.4	1598.2
32.5°	1697.0	1692.4	1623.6	1518.6	1415.7	1400.5	1343.9	1323.6	1349.5	1460.6	1722.4
35°	1861.0	1857.0	1799.9	1691.9	1566.0	1547.2	1489.6	1466.7	1480.0	1576.2	1885.0
37.5°	2009.3	2007.3	1958.4	1873.3	1743.3	1720.4	1655.7	1648.1	1645.5	1728.6	2082.1
40°	2146.9	2141.7	2090.8	2045.9	1949.7	1928.7	1871.8	1865.1	1845.7	1916.0	2305.2
42.5°	2299.2	2285.9	2212.1	2191.1	2165.1	2147.9	2113.8	2114.7	2071.9	2127.5	2541.6
45°	2423.4	2415.8	2339.9	2327.7	2355.7	2348.6	2378.1	2385.8	2302.7	2349.1	2787.2
47.5°	2557.0	2549.8	2485.6	2476.9	2552.9	2554.9	2659.4	2661.8	2527.9	2579.3	3033.3
50°	2721.5	2711.3	2647.6	2658.3	2743.4	2751.0	2942.1	2924.7	2735.2	2813.2	3277.3
52.5°	2830.0	2836.1	2822.3	2839.7	2955.8	2963.0	3220.2	3175.9	2940.5	3043.9	3516.8
55°	2910.0	2922.2	2965.0	3004.7	3180.0	3187.1	3482.6	3414.8	3110.7	3258.0	3741.9
57.5°	3012.9	2995.6	3075.5	3153.0	3393.0	3411.8	3737.9	3645.1	3261.4	3442.4	3896.2
60°	3160.6	3148.4	3210.5	3325.2	3631.4	3661.4	4007.9	3852.5	3372.0	3588.5	3926.4
62.5°	3460.2	3429.6	3439.3	3540.7	3931.9	3971.7	4312.5	4033.3	3427.1	3645.6	3765.3
65°	3908.0	3855.5	3806.6	3876.9	4355.3	4394.5	4656.4	4175.4	3406.7	3535.0	3337.9
67.5°	4472.0	4420.0	4359.8	4426.1	4978.8	5009.9	5080.7	4255.4	3246.2	3109.1	2582.4
70°	4937.1	4917.7	4989.5	5262.1	5974.8	5975.9	5624.8	4189.2	2806.6	2204.4	1494.2
72.5°	4875.4	4863.7	5242.3	6084.8	7230.1	7203.1	6139.9	3688.0	1890.6	994.5	559.9
75°	3999.7	4075.6	4662.0	6070.0	7680.9	7677.4	5824.6	2344.5	782.0	412.2	289.4
77.5°	2144.8	2265.0	3026.6	4481.6	5996.2	6086.3	4095.0	820.2	335.7	263.9	200.2
80°	699.5	804.4	1206.4	2281.9	3896.2	3879.4	1755.0	322.0	229.8	187.0	138.6
82.5°	297.0	309.2	539.0	1077.5	1999.6	1968.5	558.8	184.9	161.5	127.9	85.6
85°	116.1	129.9	237.9	498.3	866.0	847.2	201.7	91.7	103.4	83.5	50.9
87.5°	38.2	46.3	85.1	170.7	269.5	259.8	49.4	31.6	44.8	38.2	18.3
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°	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8	1255.8
2.5°	1266.5	1274.7	1284.3	1298.6	1310.8	1321.0	1331.7	1338.3	1340.9	1348.5	1348.0
5°	1275.6	1293.4	1317.4	1340.9	1363.8	1377.6	1389.8	1395.8	1401.5	1405.6	1406.6
7.5°	1291.0	1313.8	1351.6	1382.1	1401.5	1412.7	1420.9	1418.8	1420.9	1421.9	1423.4
10°	1304.2	1336.3	1381.1	1410.2	1425.0	1425.5	1423.4	1416.2	1412.7	1413.2	1414.2
12.5°	1320.0	1355.7	1404.0	1428.5	1432.5	1421.4	1412.7	1400.5	1395.8	1393.9	1392.9
15°	1341.4	1382.1	1429.1	1438.2	1428.0	1413.7	1398.9	1379.0	1368.9	1360.7	1363.2
17.5°	1367.4	1412.1	1448.3	1441.8	1419.8	1396.4	1372.5	1342.4	1321.5	1312.8	1313.3
20°	1403.5	1443.8	1463.2	1434.1	1401.0	1365.3	1324.6	1287.9	1268.5	1259.8	1258.8
22.5°	1447.3	1486.0	1477.4	1420.9	1374.0	1316.9	1266.0	1239.0	1229.3	1223.2	1224.2
25°	1499.8	1532.9	1487.6	1401.5	1329.6	1252.8	1213.5	1204.9	1200.3	1195.7	1195.7
27.5°	1568.0	1585.9	1495.3	1373.0	1260.3	1184.5	1170.2	1171.8	1170.2	1162.6	1164.1
30°	1658.2	1654.7	1502.3	1326.6	1180.9	1122.8	1123.8	1130.5	1131.5	1126.4	1128.9
32.5°	1776.9	1740.8	1505.9	1266.5	1104.9	1068.9	1069.8	1077.0	1082.1	1073.4	1077.5
35°	1920.6	1841.1	1500.3	1191.0	1046.4	1017.4	1009.7	1011.8	1013.3	1005.1	1010.8
37.5°	2088.2	1953.8	1475.4	1107.5	998.0	967.0	950.6	936.8	928.8	921.1	926.2
40°	2272.1	2076.5	1429.5	1026.0	944.0	913.5	889.0	863.0	835.5	825.3	829.9
42.5°	2464.7	2202.8	1374.0	948.1	881.8	856.9	830.9	793.2	751.9	731.0	733.6
45°	2664.4	2332.3	1319.5	871.1	818.2	807.5	777.5	732.1	687.3	660.7	658.8
47.5°	2860.1	2454.6	1239.5	793.8	758.6	770.3	746.8	705.1	655.2	613.4	608.7
50°	3047.0	2569.2	1108.5	715.2	710.2	759.1	736.7	676.5	619.5	566.0	561.4
52.5°	3232.4	2661.8	941.0	643.9	684.2	756.0	723.4	657.2	587.4	531.4	525.2
55°	3389.9	2709.8	779.4	582.8	646.5	730.0	707.7	634.3	542.0	482.5	477.3
57.5°	3479.6	2671.0	644.9	522.6	594.5	687.3	680.6	585.4	488.0	442.2	436.1
60°	3440.8	2514.1	534.9	470.3	545.1	640.9	633.8	537.0	446.8	403.4	397.4
62.5°	3227.3	2215.1	447.8	424.4	500.3	593.5	586.9	499.8	415.2	373.4	366.8
65°	2797.4	1802.0	380.1	386.1	454.9	536.5	546.1	468.7	390.2	349.5	342.9
67.5°	2133.5	1305.2	327.1	353.0	410.6	480.4	508.4	446.3	369.3	330.7	324.5
70°	1216.1	741.3	282.3	320.9	371.4	428.4	479.4	428.4	347.0	314.9	310.8
72.5°	461.0	340.3	244.1	288.8	333.7	384.7	447.3	400.5	320.9	297.0	292.9
75°	246.1	207.4	205.3	251.1	290.4	341.8	407.0	372.9	301.6	313.9	324.0
77.5°	167.6	146.7	171.7	214.9	243.0	294.5	364.3	331.2	261.4	260.3	240.0
80°	116.1	103.9	139.6	173.2	188.0	247.6	317.9	284.2	213.0	198.6	190.0
82.5°	69.8	67.8	104.4	129.4	132.9	191.1	263.4	238.4	174.2	151.8	152.8
85°	38.2	40.3	66.7	76.0	77.4	133.5	206.3	184.4	134.0	112.5	113.6
87.5°	10.7	13.7	24.5	30.0	37.2	69.3	122.8	109.6	67.2	46.8	46.8
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)