

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: P882891

Luminaire Tested: **NAV-SB3A-722-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10597 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

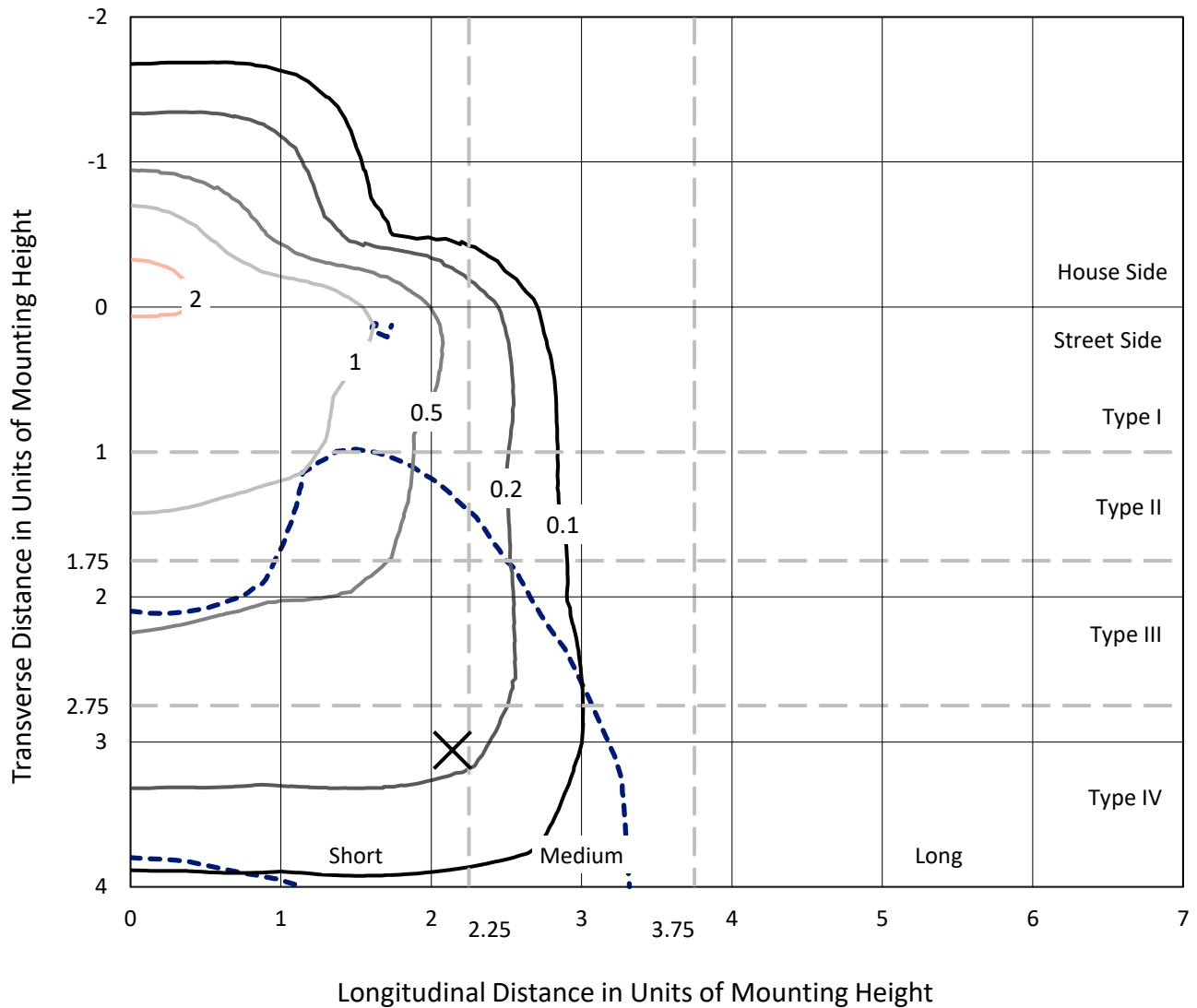
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

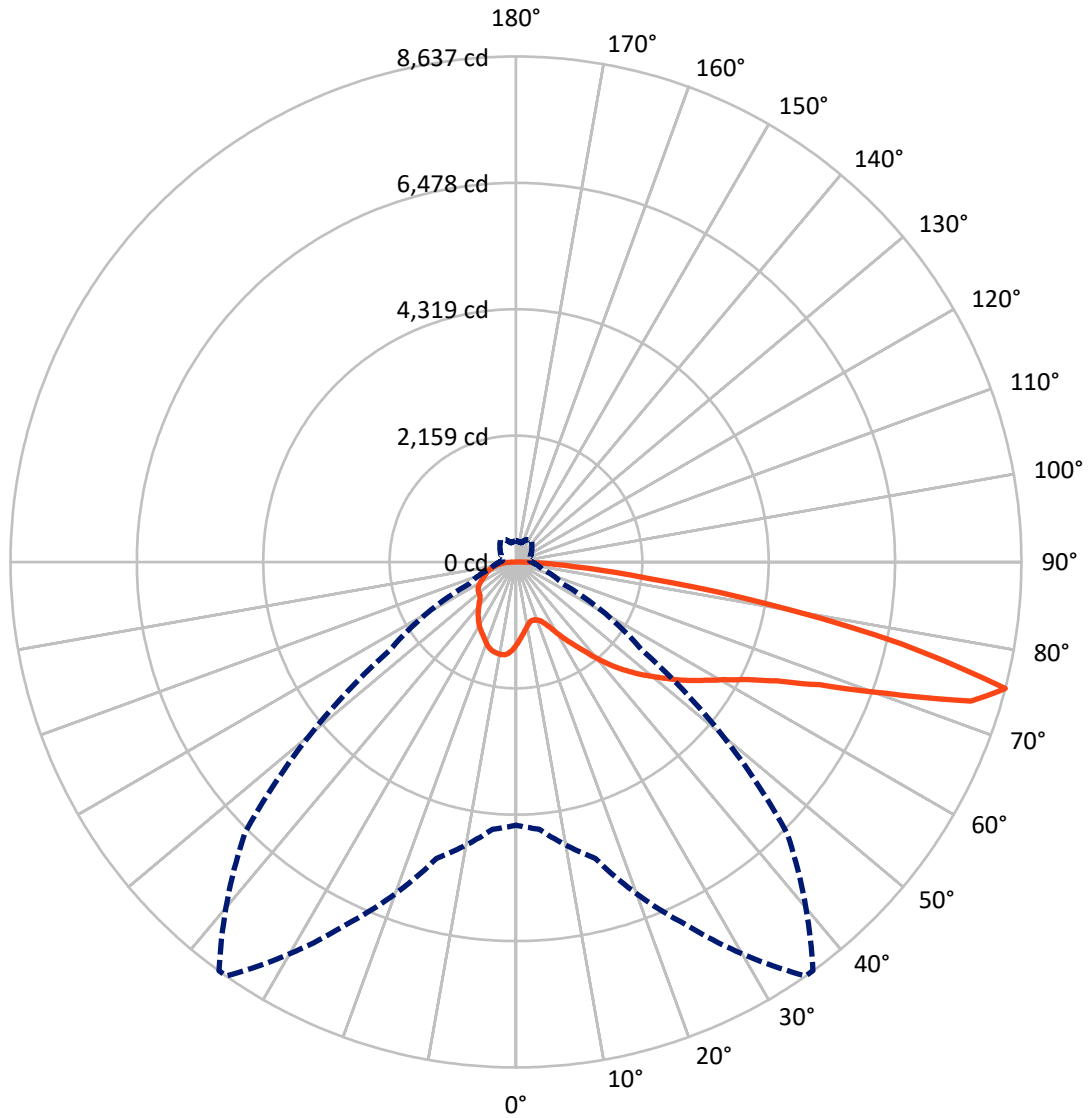
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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
House Side	Lumens	2521.8	0.0	2521.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8075.2	0.0	8075.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	10597.0	0.0	10597.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	1.3
10°-20°	385.6	3.6
20°-30°	647.6	6.1
30°-40°	1006.5	9.5
40°-50°	1493.9	14.1
50°-60°	2062.4	19.5
60°-70°	2502.1	23.6
70°-80°	2067.8	19.5
80°-90°	297.4	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°	10597.0	100.0
0°-180°	10597.0	100.0



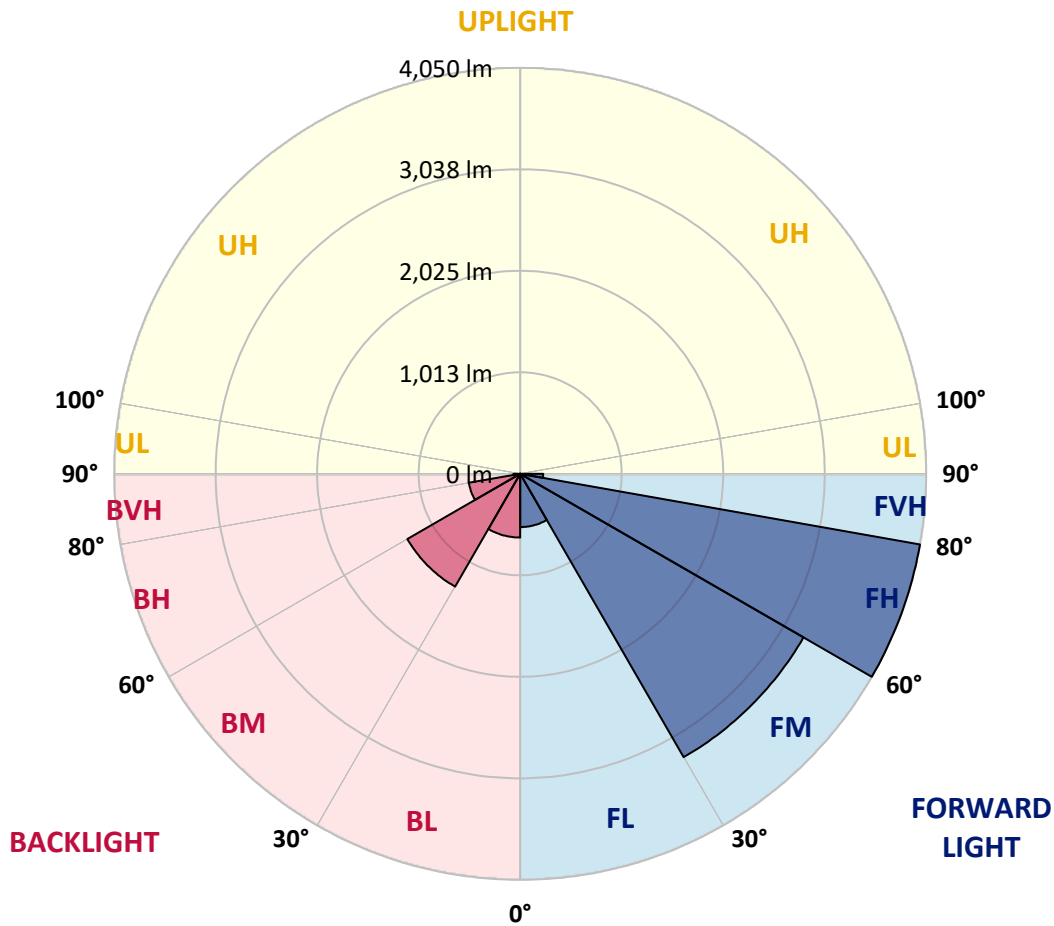
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.4	5.0			
FM (30°-60°)	3263.3	30.8			
FH (60°-80°)	4050.0	38.2			G2/5000
FVH (80°-90°)	230.4	2.2			G3/500
BL (0°-30°)	635.5	6.0	B2/1000		
BM (30°-60°)	1299.4	12.3	B2/2500		
BH (60°-80°)	519.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	67.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1302.1	1310.2	1313.6	1311.9	1320.5	1319.3	1331.3	1346.2	1366.9	1386.9	1416.1
5°	1201.9	1210.5	1217.9	1224.8	1241.4	1246.6	1265.5	1294.1	1331.9	1370.3	1418.4
7.5°	1108.5	1115.9	1127.4	1140.0	1168.1	1173.2	1204.7	1249.4	1302.1	1358.3	1424.7
10°	1032.3	1039.8	1051.8	1066.1	1101.1	1107.4	1147.5	1207.0	1275.8	1346.8	1431.6
12.5°	999.7	1001.9	1008.8	1023.1	1053.5	1057.5	1101.6	1169.8	1250.0	1338.2	1441.9
15°	997.9	1002.5	1003.1	1010.5	1035.7	1037.5	1078.1	1145.7	1234.0	1336.5	1457.4
17.5°	1015.1	1018.6	1013.4	1018.0	1039.2	1042.0	1074.1	1134.3	1228.8	1344.0	1483.7
20°	1061.0	1063.8	1048.4	1042.0	1057.5	1059.8	1091.3	1141.7	1234.0	1359.4	1519.8
22.5°	1158.3	1160.1	1122.3	1096.5	1097.6	1098.8	1126.3	1172.1	1254.0	1387.5	1565.7
25°	1310.2	1309.0	1248.9	1199.0	1170.4	1164.1	1182.4	1221.4	1287.8	1424.7	1624.7
27.5°	1487.7	1479.1	1419.0	1344.5	1282.1	1272.9	1268.9	1285.5	1335.9	1474.0	1696.8
30°	1688.2	1680.2	1615.5	1518.1	1431.6	1416.7	1378.9	1370.3	1407.5	1541.0	1797.1
32.5°	1908.2	1903.1	1825.7	1707.7	1592.0	1574.8	1511.2	1488.3	1517.5	1642.4	1936.9
35°	2092.7	2088.1	2023.9	1902.5	1761.0	1739.8	1675.1	1649.3	1664.2	1772.5	2119.6
37.5°	2259.4	2257.1	2202.1	2106.4	1960.4	1934.6	1861.8	1853.2	1850.4	1943.7	2341.3
40°	2414.1	2408.3	2351.1	2300.6	2192.4	2168.9	2104.7	2097.3	2075.5	2154.6	2592.2
42.5°	2585.4	2570.5	2487.4	2463.9	2434.7	2415.2	2376.8	2378.0	2329.9	2392.3	2858.0
45°	2725.1	2716.5	2631.2	2617.4	2648.9	2640.9	2674.2	2682.7	2589.4	2641.5	3134.2
47.5°	2875.2	2867.2	2795.0	2785.3	2870.6	2872.9	2990.4	2993.2	2842.6	2900.4	3410.9
50°	3060.3	3048.8	2977.2	2989.2	3084.9	3093.5	3308.3	3288.8	3075.7	3163.4	3685.3
52.5°	3182.3	3189.2	3173.7	3193.2	3323.8	3331.8	3621.1	3571.3	3306.6	3422.9	3954.5
55°	3272.2	3286.0	3334.1	3378.8	3575.8	3583.9	3916.1	3839.9	3497.9	3663.5	4207.7
57.5°	3387.9	3368.5	3458.4	3545.5	3815.3	3836.5	4203.1	4098.9	3667.5	3870.9	4381.3
60°	3554.1	3540.3	3610.2	3739.1	4083.4	4117.2	4506.8	4332.0	3791.8	4035.3	4415.1
62.5°	3890.9	3856.6	3867.4	3981.4	4421.4	4466.1	4849.3	4535.4	3853.7	4099.5	4234.1
65°	4394.5	4335.5	4280.5	4359.5	4897.5	4941.6	5236.0	4695.2	3830.8	3975.1	3753.4
67.5°	5028.6	4970.2	4902.6	4977.1	5598.6	5633.6	5713.2	4785.2	3650.3	3496.2	2903.9
70°	5551.7	5529.9	5610.7	5917.2	6718.6	6719.8	6325.0	4710.7	3155.9	2478.8	1680.2
72.5°	5482.4	5469.2	5894.8	6842.3	8130.2	8099.8	6904.2	4147.0	2125.9	1118.2	629.6
75°	4497.6	4583.0	5242.3	6825.7	8637.1	8633.1	6549.6	2636.3	879.4	463.5	325.4
77.5°	2411.8	2547.0	3403.4	5039.5	6742.7	6844.1	4604.7	922.3	377.5	296.7	225.1
80°	786.5	904.6	1356.6	2565.9	4381.3	4362.4	1973.5	362.1	258.4	210.2	155.8
82.5°	334.0	347.7	606.1	1211.6	2248.5	2213.6	628.4	208.0	181.6	143.8	96.2
85°	130.6	146.1	267.5	560.3	973.9	952.7	226.9	103.1	116.3	94.0	57.3
87.5°	43.0	52.1	95.7	191.9	303.0	292.2	55.6	35.5	50.4	43.0	20.6
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°	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1424.2	1433.3	1444.2	1460.2	1474.0	1485.4	1497.5	1504.9	1507.8	1516.4	1515.8
5°	1434.5	1454.5	1481.4	1507.8	1533.6	1549.0	1562.8	1569.7	1576.0	1580.5	1581.7
7.5°	1451.6	1477.4	1519.8	1554.2	1576.0	1588.6	1597.7	1595.4	1597.7	1598.9	1600.6
10°	1466.5	1502.6	1553.0	1585.7	1602.3	1602.9	1600.6	1592.6	1588.6	1589.1	1590.3
12.5°	1484.3	1524.4	1578.8	1606.3	1610.9	1598.3	1588.6	1574.8	1569.7	1567.4	1566.2
15°	1508.4	1554.2	1606.9	1617.2	1605.8	1589.7	1573.1	1550.8	1539.3	1530.1	1533.0
17.5°	1537.6	1588.0	1628.7	1621.2	1596.6	1570.2	1543.3	1509.5	1486.0	1476.3	1476.9
20°	1578.3	1623.5	1645.3	1612.6	1575.4	1535.3	1489.5	1448.2	1426.4	1416.7	1415.6
22.5°	1627.5	1671.1	1661.3	1597.7	1545.0	1480.9	1423.6	1393.2	1382.3	1375.5	1376.6
25°	1686.5	1723.8	1672.8	1576.0	1495.2	1408.7	1364.6	1354.8	1349.7	1344.5	1344.5
27.5°	1763.3	1783.3	1681.4	1543.9	1417.3	1331.9	1315.9	1317.6	1315.9	1307.3	1309.0
30°	1864.7	1860.7	1689.4	1491.8	1327.9	1262.6	1263.7	1271.2	1272.3	1266.6	1269.5
32.5°	1998.2	1957.5	1693.4	1424.2	1242.6	1201.9	1203.0	1211.0	1216.8	1207.0	1211.6
35°	2159.7	2070.3	1687.1	1339.4	1176.7	1144.0	1135.4	1137.7	1139.4	1130.3	1136.6
37.5°	2348.2	2197.0	1659.0	1245.4	1122.3	1087.3	1069.0	1053.5	1044.3	1035.7	1041.5
40°	2555.0	2335.0	1607.5	1153.8	1061.5	1027.2	999.7	970.4	939.5	928.0	933.2
42.5°	2771.5	2477.1	1545.0	1066.1	991.6	963.6	934.3	892.0	845.6	822.1	824.9
45°	2996.1	2622.6	1483.7	979.6	920.0	908.0	874.2	823.2	772.8	743.0	740.7
47.5°	3216.1	2760.1	1393.8	892.5	853.0	866.2	839.8	792.9	736.7	689.7	684.6
50°	3426.3	2889.0	1246.6	804.3	798.6	853.6	828.4	760.8	696.6	636.5	631.3
52.5°	3634.9	2993.2	1058.1	724.1	769.4	850.1	813.5	739.0	660.5	597.5	590.6
55°	3811.9	3047.1	876.5	655.4	727.0	820.9	795.7	713.2	609.5	542.5	536.8
57.5°	3912.7	3003.6	725.3	587.8	668.5	772.8	765.4	658.2	548.8	497.3	490.4
60°	3869.2	2827.1	601.5	528.8	613.0	720.7	712.6	603.8	502.4	453.7	446.8
62.5°	3629.1	2490.8	503.6	477.2	562.6	667.4	659.9	562.0	466.9	419.9	412.5
65°	3145.6	2026.2	427.4	434.2	511.6	603.2	614.1	527.0	438.8	393.0	385.5
67.5°	2399.2	1467.7	367.8	397.0	461.7	540.2	571.7	501.8	415.3	371.8	364.9
70°	1367.4	833.5	317.4	360.9	417.6	481.8	539.1	481.8	390.1	354.0	349.5
72.5°	518.4	382.7	274.4	324.8	375.2	432.5	503.0	450.3	360.9	334.0	329.4
75°	276.7	233.2	230.9	282.4	326.5	384.4	457.7	419.3	339.1	352.9	364.3
77.5°	188.5	165.0	193.1	241.8	273.3	331.1	409.6	372.4	293.9	292.7	269.8
80°	130.6	116.9	157.0	194.8	211.4	278.4	357.5	319.7	239.5	223.4	213.7
82.5°	78.5	76.2	117.4	145.5	149.5	214.8	296.2	268.1	195.9	170.7	171.9
85°	43.0	45.3	75.0	85.4	87.1	150.1	232.0	207.4	150.7	126.6	127.7
87.5°	12.0	15.5	27.5	33.8	41.8	77.9	138.1	123.2	75.6	52.7	52.7
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)