

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: P882394

Luminaire Tested: **NAV-SB2B-730-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11199 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

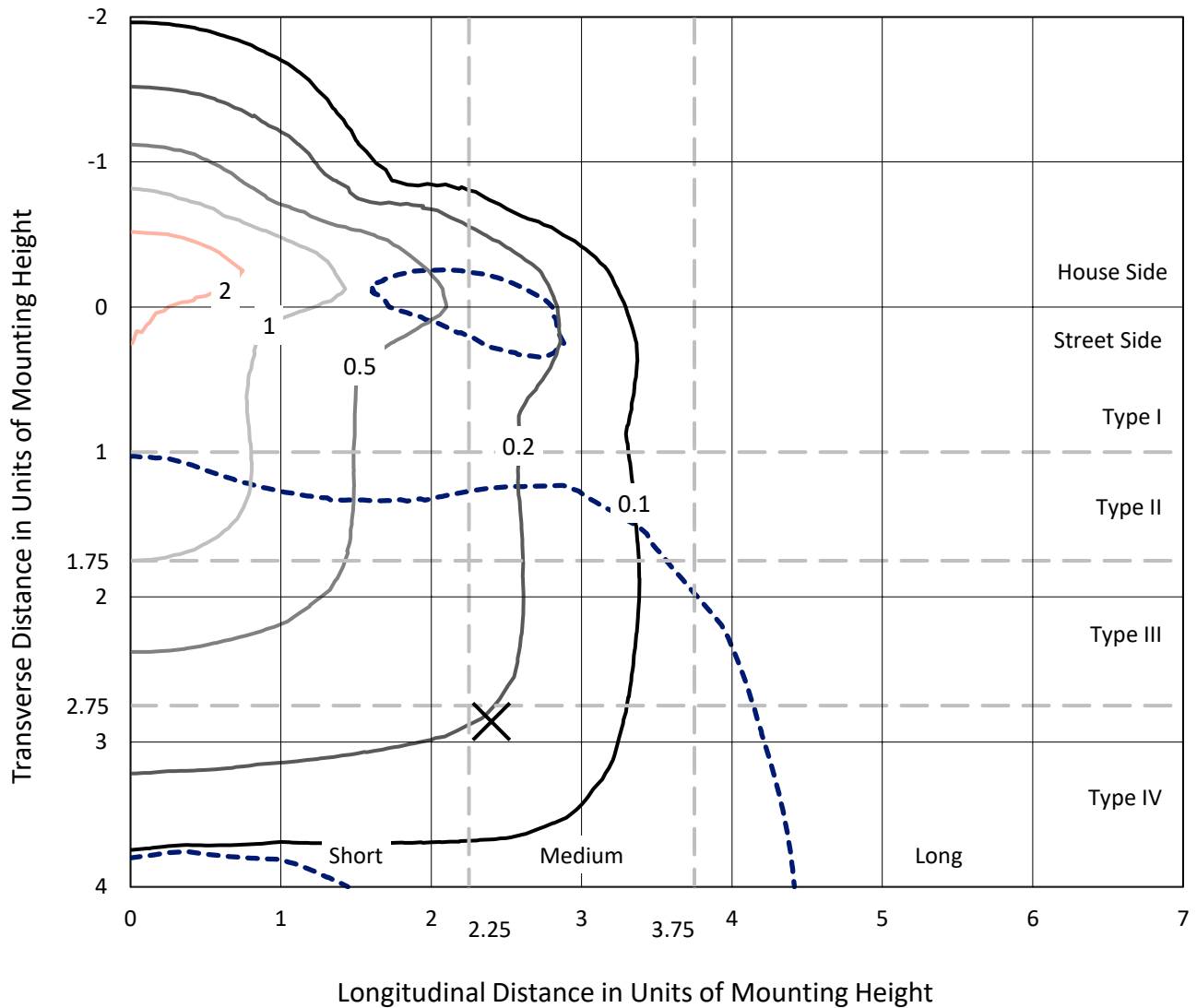
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P882394
 CATALOG NUMBER: NAV-SB2B-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

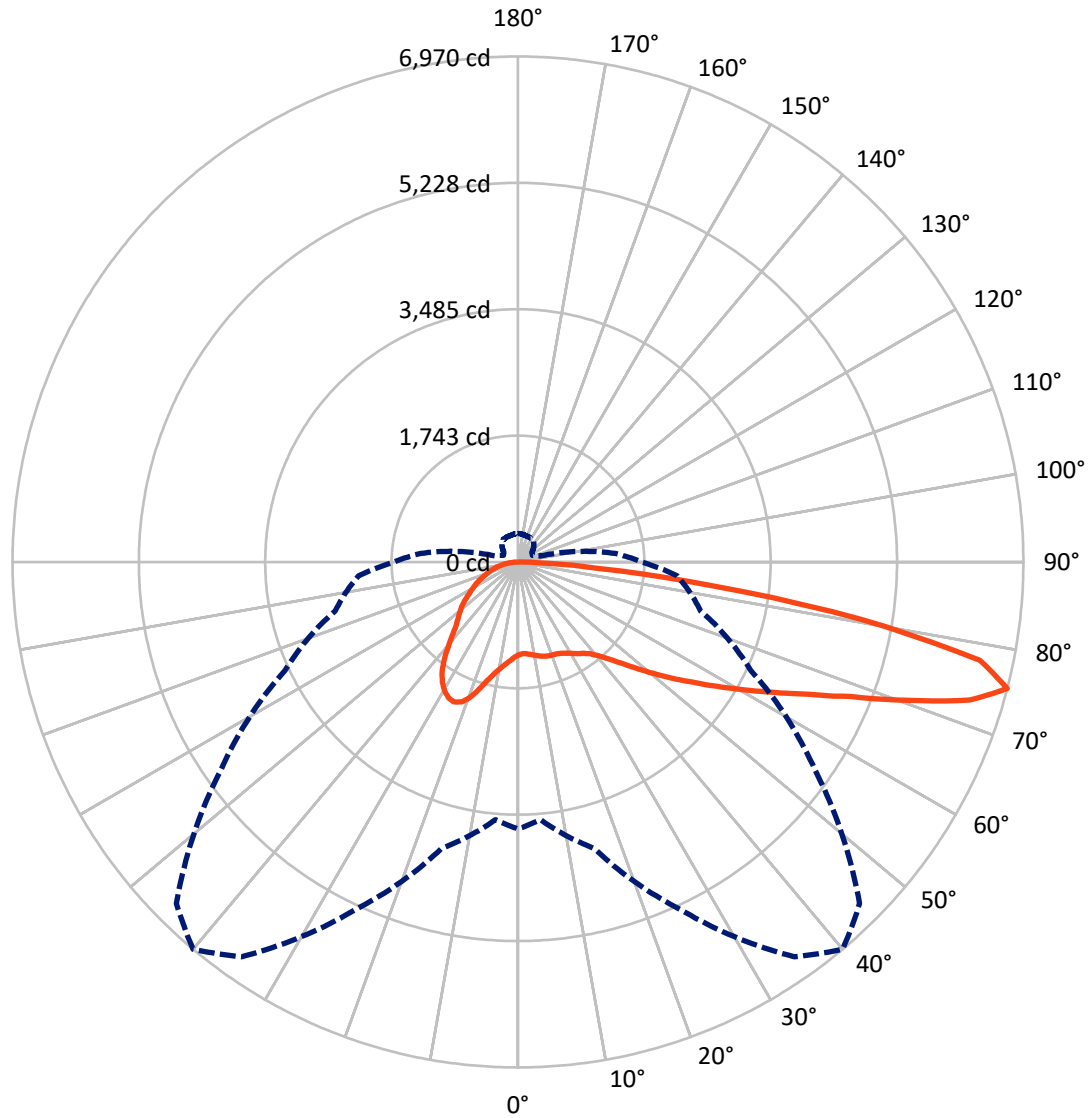
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P882394
CATALOG NUMBER: NAV-SB2B-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P882394

CATALOG NUMBER: NAV-SB2B-730-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3469.8	0.0	3469.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7729.2	0.0	7729.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	11199.0	0.0	11199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.1
10°-20°	429.2	3.8
20°-30°	783.7	7.0
30°-40°	1111.4	9.9
40°-50°	1500.8	13.4
50°-60°	2019.0	18.0
60°-70°	2562.5	22.9
70°-80°	2325.6	20.8
80°-90°	339.0	3.0
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°	11199.0	100.0
0°-180°	11199.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882394

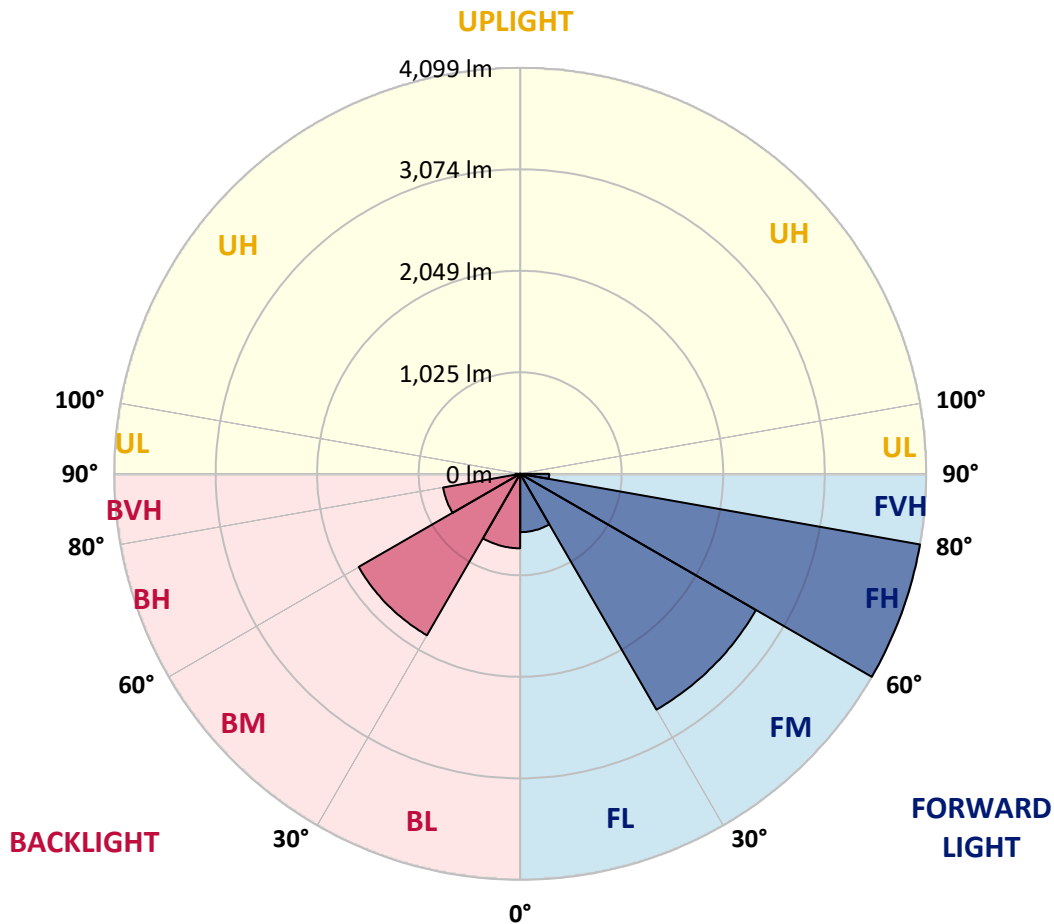
CATALOG NUMBER: NAV-SB2B-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.1	5.3			
FM (30°-60°)	2749.1	24.5			
FH (60°-80°)	4098.7	36.6			G2/5000
FVH (80°-90°)	292.3	2.6			G3/500
BL (0°-30°)	751.6	6.7	B2/1000		
BM (30°-60°)	1882.1	16.8	B2/2500		
BH (60°-80°)	789.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	46.7	0.4			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 Medium



REPORT NUMBER: P882394

CATALOG NUMBER: NAV-SB2B-730-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6
2.5°	1261.0	1268.1	1266.4	1264.0	1264.0	1264.6	1264.0	1268.1	1272.3	1276.5	1283.0
5°	1274.1	1281.2	1277.7	1274.7	1272.3	1271.7	1269.9	1269.3	1271.7	1277.1	1286.0
7.5°	1299.6	1306.8	1301.4	1296.1	1291.3	1288.9	1286.6	1283.0	1281.2	1284.2	1296.7
10°	1328.1	1335.3	1328.7	1319.2	1311.5	1308.5	1306.2	1302.6	1300.2	1302.0	1315.7
12.5°	1356.6	1363.8	1354.9	1341.8	1331.7	1329.9	1327.0	1325.8	1325.2	1324.6	1338.2
15°	1383.4	1389.3	1378.0	1362.6	1351.9	1348.9	1346.0	1347.7	1350.7	1354.3	1369.7
17.5°	1404.2	1410.1	1393.5	1373.3	1363.2	1362.0	1360.2	1366.2	1374.5	1383.4	1402.4
20°	1423.2	1429.1	1407.7	1380.4	1368.5	1368.5	1369.1	1381.6	1393.5	1406.5	1432.7
22.5°	1449.9	1454.7	1428.5	1391.1	1373.9	1375.1	1379.8	1392.3	1407.1	1425.0	1461.2
25°	1489.7	1493.3	1461.2	1411.3	1391.7	1395.3	1399.4	1405.4	1419.6	1440.4	1489.1
27.5°	1553.9	1556.8	1514.6	1446.9	1417.2	1423.2	1429.1	1425.0	1431.5	1449.3	1511.7
30°	1644.1	1645.9	1592.5	1502.8	1460.6	1463.6	1464.8	1447.5	1435.1	1449.3	1527.7
32.5°	1751.1	1750.5	1686.9	1570.5	1509.9	1506.9	1496.8	1463.0	1433.9	1446.3	1542.0
35°	1916.8	1910.2	1828.3	1665.5	1565.7	1547.3	1523.6	1480.2	1439.8	1443.4	1554.4
37.5°	2191.2	2171.0	2057.5	1821.1	1648.9	1602.0	1566.9	1508.1	1452.9	1442.2	1569.3
40°	2500.7	2475.1	2350.4	2034.4	1773.6	1698.2	1641.8	1547.9	1474.3	1447.5	1591.3
42.5°	2867.7	2831.5	2697.3	2285.6	1931.6	1822.3	1737.4	1598.4	1505.7	1464.8	1621.0
45°	3318.6	3270.5	3080.4	2569.0	2130.6	1985.1	1871.6	1675.0	1553.9	1498.0	1665.5
47.5°	3774.1	3786.0	3515.8	2893.3	2369.4	2185.8	2039.7	1790.3	1623.9	1551.5	1737.4
50°	4258.2	4266.6	3948.8	3252.6	2640.2	2412.7	2228.6	1919.1	1721.4	1627.5	1844.9
52.5°	4636.0	4637.2	4342.0	3628.6	2922.4	2662.2	2432.3	2066.5	1834.2	1728.5	1988.1
55°	4872.4	4869.4	4617.6	3984.4	3246.7	2924.2	2658.1	2234.0	1972.0	1847.3	2168.0
57.5°	5044.1	5035.2	4807.7	4290.3	3592.4	3233.6	2913.5	2424.0	2134.8	1988.6	2405.0
60°	5109.4	5104.1	4936.6	4554.6	3955.9	3575.8	3208.1	2636.7	2319.5	2155.6	2709.7
62.5°	5134.4	5144.5	5063.1	4810.6	4345.0	3954.7	3531.8	2890.9	2527.4	2344.4	3031.1
65°	5222.3	5240.7	5224.1	5145.6	4784.5	4398.4	3961.3	3193.2	2754.3	2547.0	3366.7
67.5°	5396.3	5414.7	5421.8	5546.6	5321.5	4951.4	4497.0	3569.8	3019.8	2757.3	3619.1
70°	5392.1	5386.8	5512.7	5865.6	5993.9	5717.1	5219.3	4033.1	3336.4	2931.9	3651.2
72.5°	4908.1	4865.3	5162.9	5862.0	6553.4	6516.6	6101.4	4630.7	3609.6	2953.3	3168.3
75°	3682.1	3568.0	4093.7	5282.9	6646.6	6970.4	6662.1	5001.3	3544.9	2609.4	2204.9
77.5°	1574.6	1460.0	2079.5	3910.8	5948.7	6516.0	6147.7	4363.4	2829.7	1725.5	1082.8
80°	412.2	411.6	628.4	1773.0	4045.6	4811.8	4221.4	2817.8	1616.8	616.6	298.8
82.5°	170.5	166.3	231.1	689.6	1976.8	2700.2	2203.7	1256.9	583.9	166.9	99.2
85°	63.6	63.0	112.3	238.2	697.3	1113.7	806.0	321.3	145.5	81.4	44.5
87.5°	17.8	17.2	24.4	82.6	169.9	257.8	137.8	52.9	41.0	32.1	13.1
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: P882394

CATALOG NUMBER: NAV-SB2B-730-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6
2.5°	1284.8	1287.7	1293.1	1297.3	1302.6	1308.5	1316.9	1322.2	1327.5	1331.1	1328.7
5°	1290.1	1296.7	1310.3	1324.0	1340.0	1354.9	1372.1	1384.6	1394.7	1397.6	1398.8
7.5°	1302.0	1312.7	1335.9	1359.0	1384.6	1408.9	1433.9	1455.3	1472.5	1479.0	1479.6
10°	1322.8	1337.0	1369.7	1402.4	1436.2	1473.7	1505.7	1536.6	1561.0	1571.1	1571.7
12.5°	1348.9	1366.7	1409.5	1454.7	1501.6	1553.3	1594.8	1632.9	1663.1	1676.8	1676.8
15°	1382.8	1406.0	1460.6	1521.2	1590.1	1662.0	1714.8	1757.0	1790.8	1807.5	1806.3
17.5°	1419.6	1450.5	1519.4	1610.9	1709.5	1803.9	1865.7	1896.6	1931.6	1947.7	1947.1
20°	1455.3	1493.3	1591.9	1724.9	1856.2	1956.6	2006.5	2014.8	2017.2	2018.9	2023.7
22.5°	1492.1	1543.2	1682.7	1868.7	2009.4	2078.9	2086.1	2050.4	2000.5	1977.4	1983.9
25°	1532.5	1600.2	1801.5	2027.3	2141.3	2149.6	2095.0	2008.2	1913.8	1870.4	1877.0
27.5°	1571.7	1666.1	1944.1	2178.7	2236.3	2163.3	2045.7	1922.7	1808.7	1762.9	1768.3
30°	1610.9	1741.5	2101.5	2311.2	2279.7	2129.4	1967.9	1830.6	1716.0	1667.9	1673.2
32.5°	1650.7	1829.5	2282.7	2406.8	2272.0	2057.5	1871.0	1727.3	1626.3	1575.8	1582.4
35°	1695.8	1937.6	2454.3	2459.1	2220.3	1951.8	1743.3	1603.7	1515.8	1475.4	1484.4
37.5°	1754.6	2074.8	2605.8	2472.1	2130.0	1796.8	1584.7	1457.6	1385.2	1366.7	1379.8
40°	1827.7	2239.9	2721.6	2451.4	1996.4	1608.5	1411.3	1309.7	1268.7	1272.9	1287.2
42.5°	1922.7	2424.6	2803.0	2397.9	1810.5	1414.3	1259.2	1214.1	1233.7	1250.3	1265.8
45°	2046.3	2616.5	2853.5	2307.0	1600.2	1249.7	1169.5	1180.2	1195.1	1196.9	1208.7
47.5°	2204.3	2810.7	2886.7	2169.8	1385.8	1133.9	1112.5	1114.9	1111.9	1099.5	1109.0
50°	2401.5	2999.6	2916.4	1988.1	1203.4	1061.4	1032.9	1024.6	983.6	943.2	948.6
52.5°	2626.0	3173.0	2928.9	1762.3	1061.4	1000.9	954.5	902.3	825.6	813.2	817.3
55°	2875.5	3333.4	2896.8	1484.9	942.1	923.0	853.0	790.0	781.7	771.0	772.8
57.5°	3173.6	3506.3	2831.5	1175.5	819.7	832.2	763.9	771.0	756.1	739.5	736.5
60°	3499.7	3685.1	2716.9	893.3	693.2	718.7	740.7	740.1	735.9	722.3	717.5
62.5°	3793.2	3802.7	2491.2	684.3	582.1	630.8	690.8	690.2	686.6	678.9	675.9
65°	3967.8	3784.8	2114.6	538.7	490.6	558.3	623.1	627.8	628.4	627.8	627.8
67.5°	3936.9	3576.4	1597.8	428.9	415.2	484.7	556.0	562.5	567.3	568.4	569.6
70°	3587.6	3118.4	1041.8	342.1	348.1	419.9	492.4	498.9	503.1	507.9	510.2
72.5°	2796.5	2292.8	596.4	276.8	289.3	364.1	429.4	437.2	439.5	448.5	452.0
75°	1704.1	1348.3	321.9	218.0	237.6	311.2	367.1	376.0	380.1	390.8	392.0
77.5°	810.2	583.9	183.5	169.9	191.3	254.2	310.1	320.2	308.9	314.8	310.1
80°	273.8	216.8	115.8	129.5	146.1	198.4	248.3	258.4	234.6	233.4	231.1
82.5°	95.6	87.9	73.7	86.1	94.4	142.0	187.7	200.8	174.6	174.0	165.7
85°	37.4	35.6	41.0	46.9	56.4	87.3	123.5	130.1	107.5	86.7	85.5
87.5°	7.7	8.3	10.1	10.7	17.2	30.3	44.5	54.6	43.4	36.8	33.9
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)