

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: P882884

Luminaire Tested: **NAV-SB3A-722-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882884
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-SB3A-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA 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: 10628 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

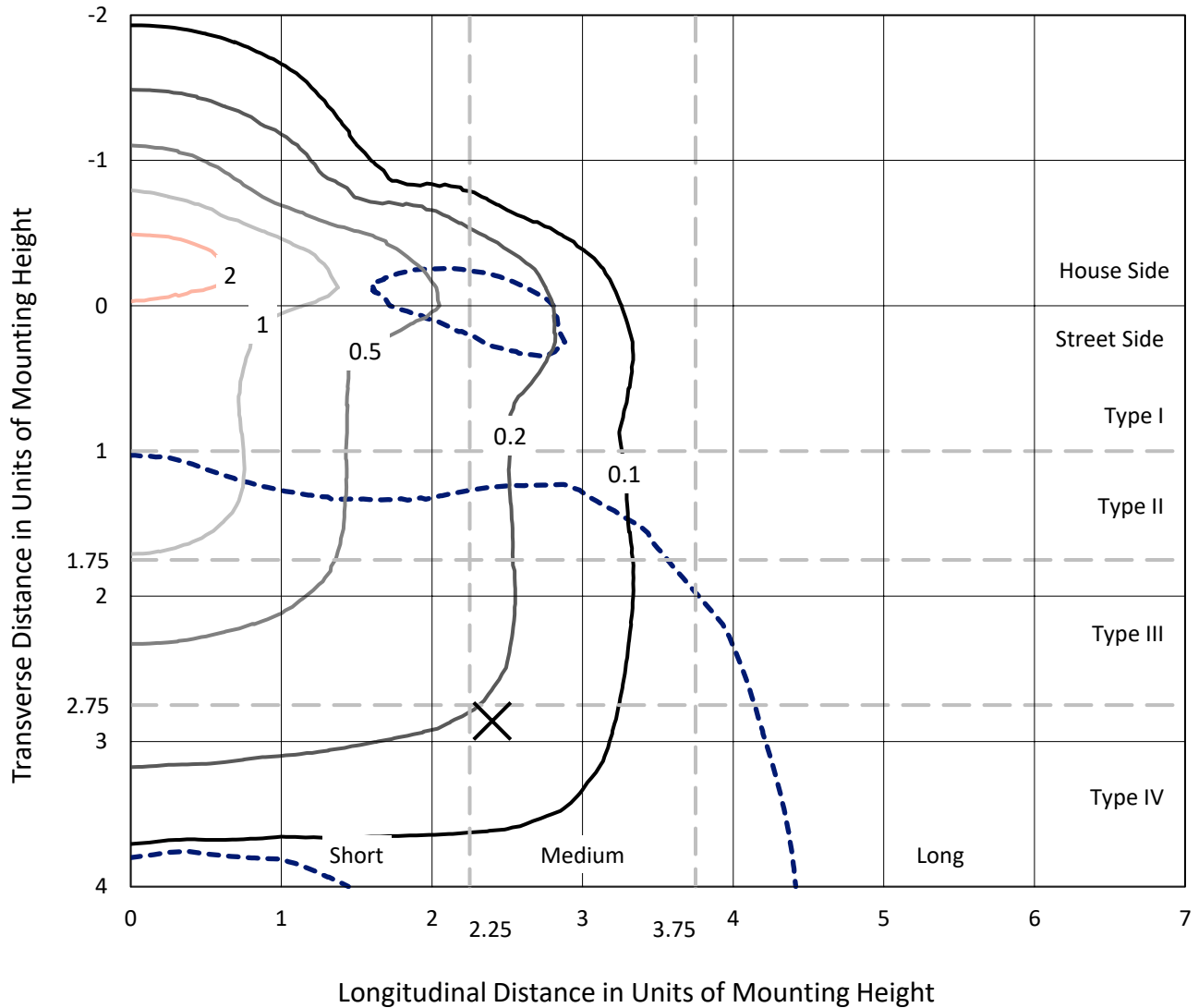
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

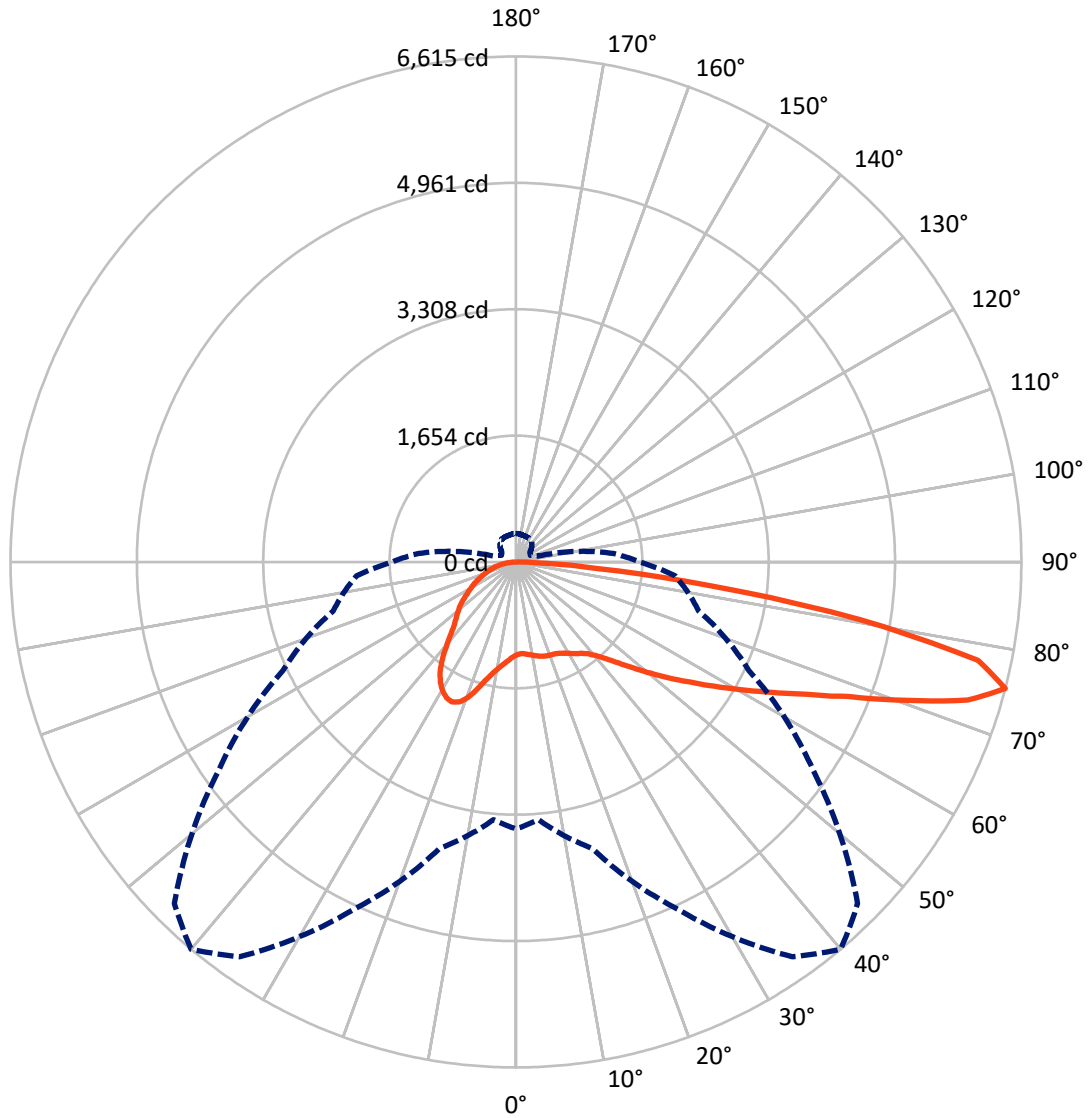
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3292.9	0.0	3292.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7335.1	0.0	7335.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	10628.0	0.0	10628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	1.1
10°-20°	407.3	3.8
20°-30°	743.7	7.0
30°-40°	1054.8	9.9
40°-50°	1424.3	13.4
50°-60°	1916.0	18.0
60°-70°	2431.9	22.9
70°-80°	2207.1	20.8
80°-90°	321.7	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°	10628.0	100.0
0°-180°	10628.0	100.0

Coefficient of Utilization



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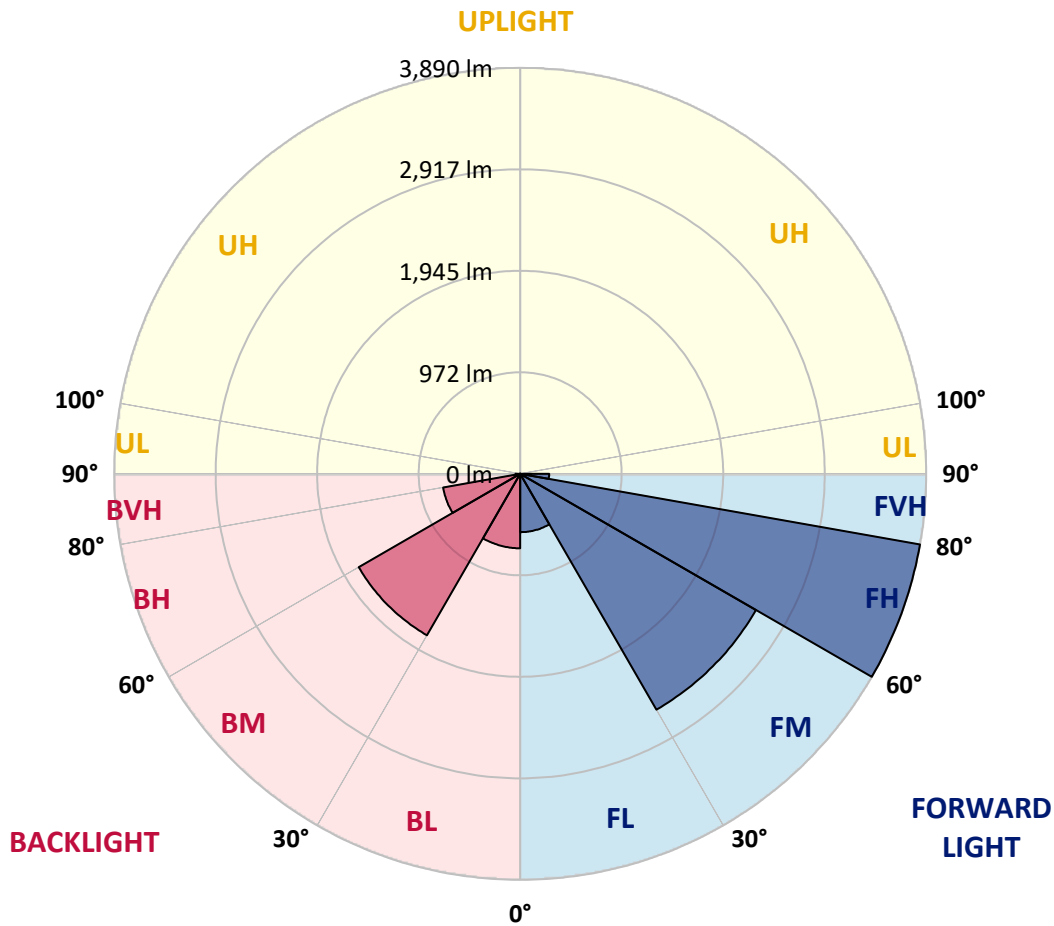
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.0	5.3			
FM (30°-60°)	2608.9	24.5			
FH (60°-80°)	3889.7	36.6			G2/5000
FVH (80°-90°)	277.4	2.6			G3/500
BL (0°-30°)	713.3	6.7	B2/1000		
BM (30°-60°)	1786.1	16.8	B2/2500		
BH (60°-80°)	749.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3
2.5°	1196.7	1203.5	1201.8	1199.5	1199.5	1200.1	1199.5	1203.5	1207.4	1211.4	1217.6
5°	1209.1	1215.9	1212.5	1209.7	1207.4	1206.9	1205.2	1204.6	1206.9	1211.9	1220.4
7.5°	1233.4	1240.1	1235.1	1230.0	1225.5	1223.2	1221.0	1217.6	1215.9	1218.7	1230.5
10°	1260.4	1267.2	1261.0	1252.0	1244.6	1241.8	1239.6	1236.2	1233.9	1235.6	1248.6
12.5°	1287.5	1294.2	1285.8	1273.4	1263.8	1262.1	1259.3	1258.2	1257.6	1257.0	1270.0
15°	1312.8	1318.5	1307.8	1293.1	1283.0	1280.2	1277.3	1279.0	1281.8	1285.2	1299.9
17.5°	1332.6	1338.2	1322.4	1303.3	1293.7	1292.6	1290.9	1296.5	1304.4	1312.8	1330.9
20°	1350.6	1356.2	1336.0	1310.0	1298.8	1298.8	1299.3	1311.2	1322.4	1334.8	1359.6
22.5°	1376.0	1380.5	1355.7	1320.2	1303.8	1305.0	1309.5	1321.3	1335.4	1352.3	1386.7
25°	1413.7	1417.1	1386.7	1339.3	1320.7	1324.1	1328.1	1333.7	1347.2	1367.0	1413.2
27.5°	1474.6	1477.4	1437.4	1373.2	1345.0	1350.6	1356.2	1352.3	1358.5	1375.4	1434.6
30°	1560.3	1562.0	1511.3	1426.1	1386.1	1388.9	1390.1	1373.7	1361.9	1375.4	1449.8
32.5°	1661.8	1661.2	1600.9	1490.4	1432.9	1430.1	1420.5	1388.4	1360.8	1372.6	1463.4
35°	1819.0	1812.8	1735.1	1580.6	1485.9	1468.4	1445.9	1404.7	1366.4	1369.8	1475.2
37.5°	2079.5	2060.3	1952.6	1728.3	1564.8	1520.3	1487.0	1431.2	1378.8	1368.7	1489.3
40°	2373.2	2348.9	2230.5	1930.7	1683.2	1611.6	1558.1	1469.0	1399.1	1373.7	1510.1
42.5°	2721.5	2687.1	2559.7	2169.1	1833.1	1729.4	1648.8	1516.9	1429.0	1390.1	1538.3
45°	3149.4	3103.7	2923.3	2438.0	2022.0	1883.9	1776.2	1589.6	1474.6	1421.6	1580.6
47.5°	3581.7	3593.0	3336.5	2745.8	2248.6	2074.4	1935.7	1699.0	1541.1	1472.4	1648.8
50°	4041.1	4049.0	3747.4	3086.8	2505.6	2289.7	2115.0	1821.3	1633.6	1544.5	1750.8
52.5°	4399.6	4400.8	4120.6	3443.6	2773.4	2526.5	2308.3	1961.1	1740.7	1640.4	1886.7
55°	4624.0	4621.2	4382.2	3781.3	3081.2	2775.1	2522.5	2120.1	1871.5	1753.1	2057.5
57.5°	4786.9	4778.4	4562.5	4071.6	3409.2	3068.8	2764.9	2300.4	2025.9	1887.3	2282.4
60°	4848.9	4843.8	4684.9	4322.4	3754.2	3393.4	3044.5	2502.2	2201.2	2045.6	2571.6
62.5°	4872.6	4882.2	4804.9	4565.4	4123.4	3753.1	3351.7	2743.5	2398.5	2224.9	2876.5
65°	4956.0	4973.5	4957.7	4883.3	4540.6	4174.2	3759.3	3030.4	2613.9	2417.1	3195.0
67.5°	5121.2	5138.6	5145.4	5263.8	5050.1	4699.0	4267.7	3387.8	2865.8	2616.7	3434.6
70°	5117.2	5112.1	5231.7	5566.5	5688.2	5425.6	4953.2	3827.5	3166.3	2782.4	3465.0
72.5°	4657.8	4617.2	4899.6	5563.1	6219.2	6184.3	5790.3	4394.6	3425.6	2802.7	3006.7
75°	3494.3	3386.1	3885.0	5013.5	6307.7	6615.0	6322.4	4746.3	3364.1	2476.3	2092.4
77.5°	1494.4	1385.6	1973.5	3711.4	5645.4	6183.7	5834.2	4140.9	2685.4	1637.5	1027.6
80°	391.2	390.6	596.4	1682.6	3839.3	4566.5	4006.2	2674.2	1534.4	585.1	283.5
82.5°	161.8	157.8	219.3	654.4	1876.0	2562.6	2091.3	1192.8	554.1	158.4	94.1
85°	60.3	59.8	106.5	226.0	661.8	1056.9	764.9	305.0	138.1	77.2	42.3
87.5°	16.9	16.3	23.1	78.4	161.2	244.6	130.8	50.2	38.9	30.4	12.4
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°	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3	1215.3
2.5°	1219.3	1222.1	1227.2	1231.1	1236.2	1241.8	1249.7	1254.8	1259.9	1263.2	1261.0
5°	1224.3	1230.5	1243.5	1256.5	1271.7	1285.8	1302.1	1314.0	1323.6	1326.4	1327.5
7.5°	1235.6	1245.8	1267.7	1289.7	1314.0	1337.1	1360.8	1381.1	1397.4	1403.6	1404.2
10°	1255.3	1268.9	1299.9	1330.9	1363.0	1398.5	1429.0	1458.3	1481.4	1491.0	1491.5
12.5°	1280.2	1297.1	1337.6	1380.5	1425.0	1474.1	1513.5	1549.6	1578.3	1591.3	1591.3
15°	1312.3	1334.3	1386.1	1443.6	1509.0	1577.2	1627.4	1667.4	1699.5	1715.3	1714.2
17.5°	1347.2	1376.5	1441.9	1528.7	1622.3	1711.9	1770.6	1799.9	1833.1	1848.4	1847.8
20°	1381.1	1417.1	1510.7	1637.0	1761.5	1856.8	1904.2	1912.1	1914.3	1916.0	1920.5
22.5°	1416.0	1464.5	1596.9	1773.4	1907.0	1972.9	1979.7	1945.9	1898.5	1876.5	1882.7
25°	1454.3	1518.6	1709.7	1923.9	2032.1	2040.0	1988.2	1905.9	1816.2	1775.1	1781.3
27.5°	1491.5	1581.2	1845.0	2067.6	2122.3	2053.0	1941.4	1824.7	1716.5	1673.0	1678.1
30°	1528.7	1652.8	1994.4	2193.3	2163.5	2020.8	1867.5	1737.3	1628.5	1582.9	1587.9
32.5°	1566.5	1736.2	2166.3	2284.1	2156.1	1952.6	1775.6	1639.2	1543.4	1495.5	1501.7
35°	1609.3	1838.8	2329.2	2333.7	2107.1	1852.3	1654.4	1522.0	1438.5	1400.2	1408.7
37.5°	1665.2	1969.0	2472.9	2346.1	2021.4	1705.2	1503.9	1383.3	1314.5	1297.1	1309.5
40°	1734.5	2125.7	2582.8	2326.4	1894.6	1526.5	1339.3	1242.9	1204.1	1208.0	1221.5
42.5°	1824.7	2301.0	2660.1	2275.6	1718.1	1342.2	1195.0	1152.2	1170.8	1186.6	1201.2
45°	1941.9	2483.1	2708.0	2189.4	1518.6	1186.0	1109.9	1120.1	1134.2	1135.8	1147.1
47.5°	2091.9	2667.4	2739.6	2059.2	1315.1	1076.1	1055.8	1058.1	1055.2	1043.4	1052.4
50°	2279.0	2846.7	2767.7	1886.7	1142.0	1007.3	980.3	972.4	933.5	895.1	900.2
52.5°	2492.1	3011.3	2779.6	1672.5	1007.3	949.8	905.9	856.3	783.5	771.7	775.6
55°	2728.8	3163.5	2749.1	1409.2	894.0	876.0	809.5	749.7	741.8	731.7	733.4
57.5°	3011.8	3327.5	2687.1	1115.6	777.9	789.7	724.9	731.7	717.6	701.8	699.0
60°	3321.3	3497.2	2578.3	847.8	657.8	682.1	702.9	702.4	698.4	685.5	680.9
62.5°	3599.8	3608.8	2364.1	649.4	552.4	598.6	655.6	655.0	651.6	644.3	641.5
65°	3765.5	3591.9	2006.8	511.3	465.6	529.9	591.3	595.8	596.4	595.8	595.8
67.5°	3736.2	3394.0	1516.3	407.0	394.0	460.0	527.6	533.8	538.3	539.5	540.6
70°	3404.7	2959.4	988.7	324.7	330.3	398.5	467.3	473.5	477.4	482.0	484.2
72.5°	2653.9	2175.9	565.9	262.7	274.5	345.5	407.6	414.9	417.1	425.6	429.0
75°	1617.2	1279.6	305.5	206.9	225.5	295.4	348.4	356.8	360.8	370.9	372.0
77.5°	768.9	554.1	174.2	161.2	181.5	241.3	294.2	303.8	293.1	298.8	294.2
80°	259.9	205.7	109.9	122.9	138.7	188.3	235.6	245.2	222.7	221.5	219.3
82.5°	90.8	83.4	69.9	81.7	89.6	134.7	178.1	190.5	165.7	165.2	157.3
85°	35.5	33.8	38.9	44.5	53.6	82.9	117.2	123.4	102.0	82.3	81.2
87.5°	7.3	7.9	9.6	10.1	16.3	28.7	42.3	51.9	41.1	34.9	32.1
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)