

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: P882641

Luminaire Tested: **NAV-SB2C-835-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882641
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-SB2C-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 12729 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

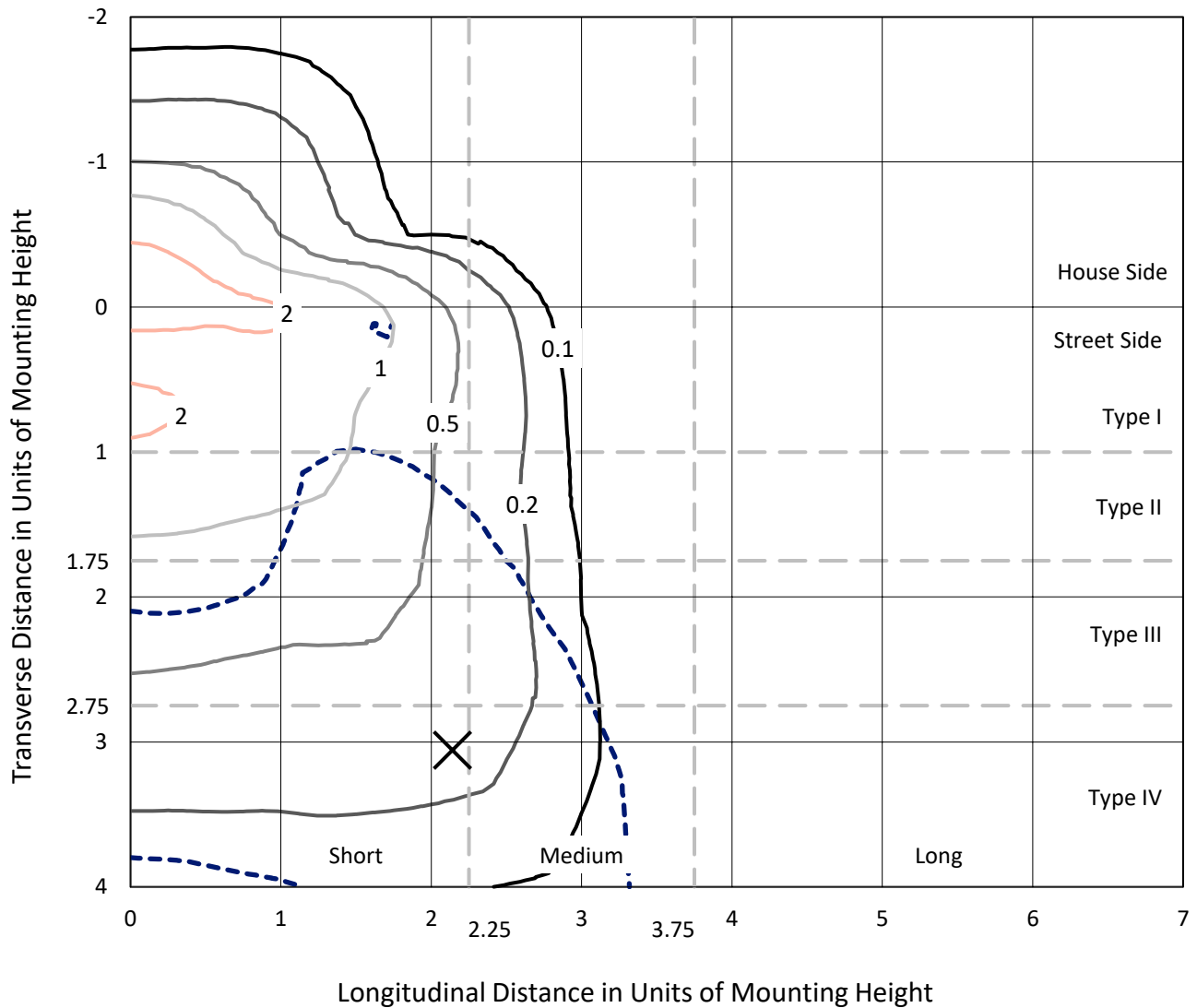
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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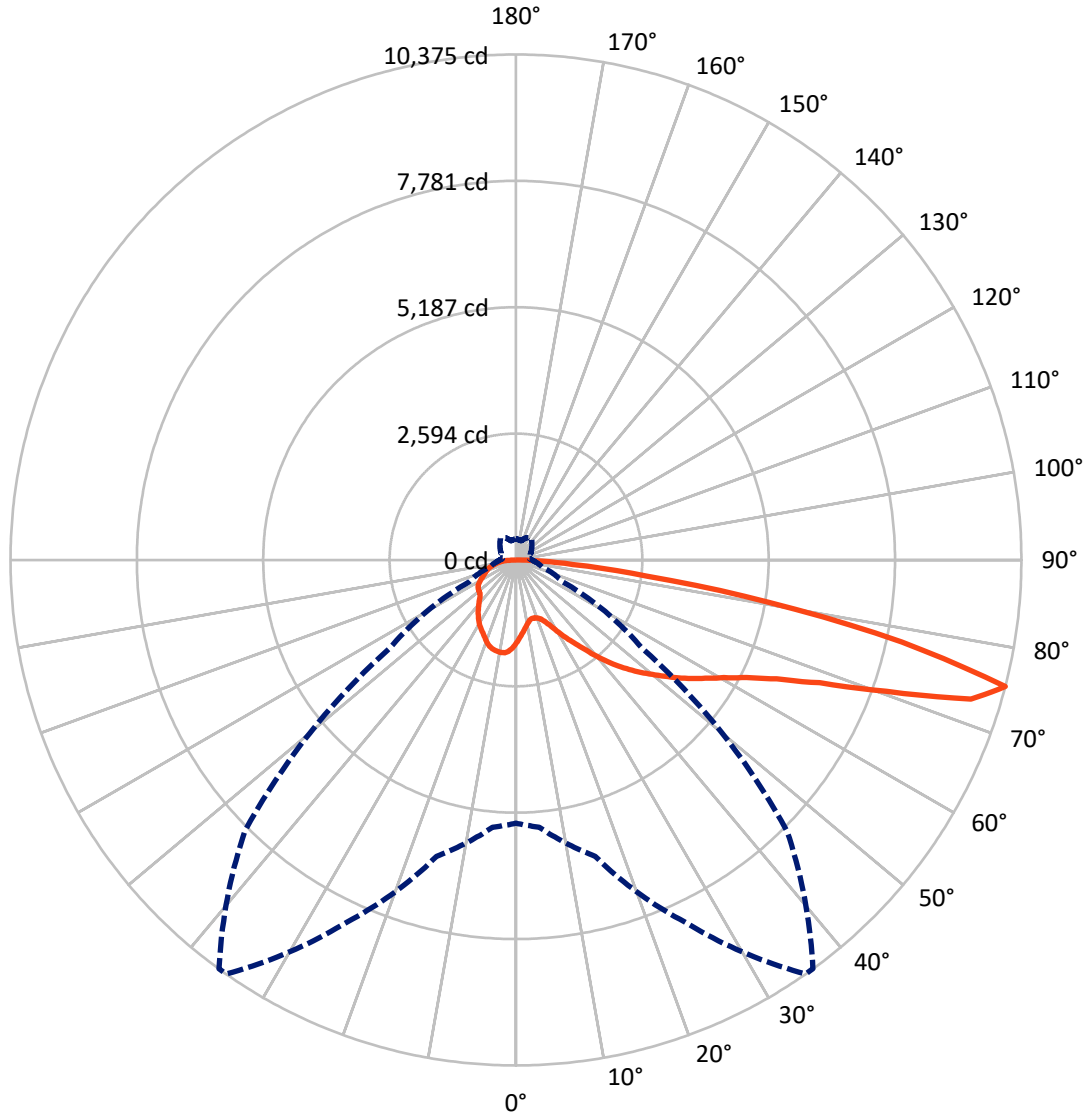
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



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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	3029.2	0.0	3029.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9699.8	0.0	9699.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	12729.0	0.0	12729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	1.3
10°-20°	463.2	3.6
20°-30°	777.9	6.1
30°-40°	1209.0	9.5
40°-50°	1794.4	14.1
50°-60°	2477.3	19.5
60°-70°	3005.5	23.6
70°-80°	2483.8	19.5
80°-90°	357.3	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°	12729.0	100.0
0°-180°	12729.0	100.0

Coefficient of Utilization



REPORT NUMBER: P882641

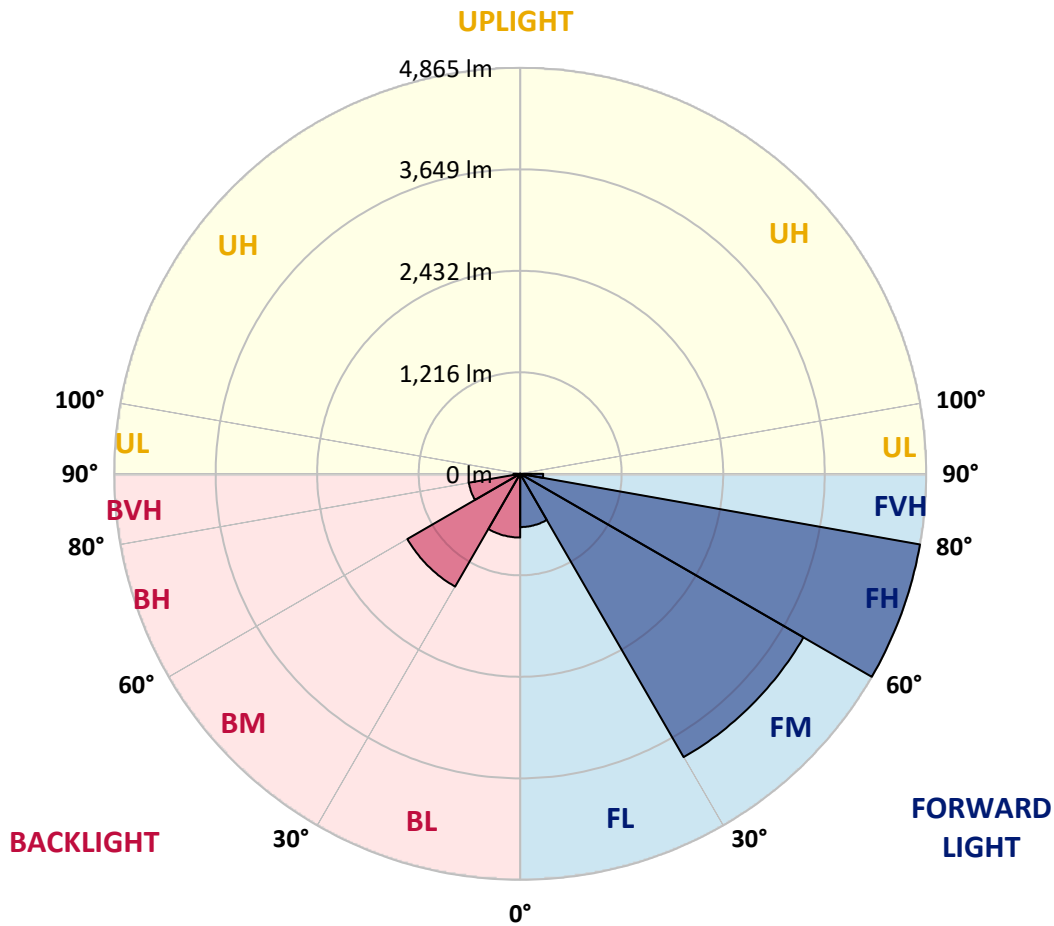
CATALOG NUMBER: NAV-SB2C-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.3	5.0			
FM (30°-60°)	3919.8	30.8			
FH (60°-80°)	4864.8	38.2			G2/5000
FVH (80°-90°)	276.8	2.2			G3/500
BL (0°-30°)	763.4	6.0	B2/1000		
BM (30°-60°)	1560.8	12.3	B2/2500		
BH (60°-80°)	624.5	4.9	B2/1000		G2/1000
BVH (80°-90°)	80.4	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



REPORT NUMBER: P882641
 CATALOG NUMBER: NAV-SB2C-835-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1564.1	1573.7	1577.9	1575.8	1586.1	1584.7	1599.2	1617.1	1641.9	1665.9	1701.0
5°	1443.7	1454.0	1463.0	1471.2	1491.2	1497.4	1520.1	1554.5	1599.9	1646.0	1703.8
7.5°	1331.5	1340.5	1354.2	1369.4	1403.1	1409.3	1447.1	1500.8	1564.1	1631.5	1711.4
10°	1240.0	1248.9	1263.4	1280.6	1322.6	1330.1	1378.3	1449.9	1532.5	1617.8	1719.6
12.5°	1200.8	1203.5	1211.8	1229.0	1265.5	1270.3	1323.3	1405.1	1501.5	1607.5	1732.0
15°	1198.7	1204.2	1204.9	1213.9	1244.1	1246.2	1295.0	1376.2	1482.2	1605.4	1750.6
17.5°	1219.4	1223.5	1217.3	1222.8	1248.3	1251.7	1290.2	1362.5	1476.0	1614.3	1782.2
20°	1274.4	1277.8	1259.3	1251.7	1270.3	1273.0	1310.9	1371.4	1482.2	1632.9	1825.6
22.5°	1391.4	1393.5	1348.0	1317.1	1318.4	1319.8	1352.9	1407.9	1506.3	1666.6	1880.6
25°	1573.7	1572.4	1500.1	1440.2	1405.8	1398.3	1420.3	1467.1	1546.9	1711.4	1951.5
27.5°	1787.1	1776.7	1704.5	1615.0	1540.0	1529.0	1524.2	1544.1	1604.7	1770.5	2038.2
30°	2027.9	2018.3	1940.5	1823.5	1719.6	1701.7	1656.3	1646.0	1690.7	1851.1	2158.6
32.5°	2292.1	2285.9	2193.1	2051.3	1912.3	1891.7	1815.3	1787.7	1822.8	1972.9	2326.5
35°	2513.7	2508.2	2431.1	2285.3	2115.3	2089.8	2012.1	1981.1	1999.0	2129.1	2546.1
37.5°	2714.0	2711.2	2645.1	2530.2	2354.8	2323.8	2236.4	2226.1	2222.6	2334.8	2812.4
40°	2899.8	2892.9	2824.1	2763.5	2633.5	2605.2	2528.2	2519.2	2493.1	2588.0	3113.8
42.5°	3105.5	3087.6	2987.8	2959.6	2924.5	2901.1	2855.0	2856.4	2798.6	2873.6	3433.1
45°	3273.4	3263.1	3160.6	3144.0	3181.9	3172.3	3212.2	3222.5	3110.3	3172.9	3764.7
47.5°	3453.7	3444.1	3357.4	3345.7	3448.2	3450.9	3592.0	3595.4	3414.5	3484.0	4097.1
50°	3676.0	3662.2	3576.2	3590.6	3705.5	3715.9	3973.9	3950.5	3694.5	3799.8	4426.7
52.5°	3822.5	3830.8	3812.2	3835.6	3992.5	4002.1	4349.6	4289.8	3971.9	4111.5	4750.1
55°	3930.6	3947.1	4004.9	4058.6	4295.3	4304.9	4704.0	4612.5	4201.7	4400.6	5054.3
57.5°	4069.6	4046.2	4154.2	4258.8	4582.9	4608.4	5048.8	4923.5	4405.4	4649.7	5262.8
60°	4269.1	4252.6	4336.6	4491.4	4904.9	4945.5	5413.5	5203.6	4554.7	4847.1	5303.4
62.5°	4673.7	4632.4	4645.5	4782.5	5310.9	5364.6	5825.0	5447.9	4629.0	4924.2	5085.9
65°	5278.6	5207.7	5141.7	5236.6	5882.8	5935.8	6289.5	5639.9	4601.5	4774.9	4508.6
67.5°	6040.4	5970.2	5889.0	5978.4	6725.0	6767.0	6862.7	5747.9	4384.7	4199.6	3488.1
70°	6668.6	6642.5	6739.5	7107.6	8070.3	8071.7	7597.6	5658.4	3790.9	2977.5	2018.3
72.5°	6585.3	6569.5	7080.8	8219.0	9765.9	9729.4	8293.3	4981.3	2553.6	1343.2	756.2
75°	5402.5	5505.0	6297.0	8199.0	10374.8	10370.0	7867.3	3166.7	1056.3	556.7	390.9
77.5°	2897.0	3059.4	4088.1	6053.4	8099.2	8221.0	5531.1	1107.9	453.5	356.4	270.4
80°	944.8	1086.5	1629.5	3082.1	5262.8	5240.1	2370.6	434.9	310.3	252.5	187.2
82.5°	401.2	417.7	728.0	1455.4	2700.9	2658.9	754.9	249.8	218.1	172.7	115.6
85°	156.9	175.5	321.4	673.0	1169.8	1144.4	272.5	123.9	139.7	112.9	68.8
87.5°	51.6	62.6	114.9	230.5	364.0	350.9	66.7	42.7	60.6	51.6	24.8
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: P882641
 CATALOG NUMBER: NAV-SB2C-835-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1710.7	1721.7	1734.8	1754.0	1770.5	1784.3	1798.8	1807.7	1811.1	1821.5	1820.8
5°	1723.1	1747.1	1779.5	1811.1	1842.1	1860.7	1877.2	1885.5	1893.0	1898.5	1899.9
7.5°	1743.7	1774.7	1825.6	1866.9	1893.0	1908.2	1919.2	1916.4	1919.2	1920.6	1922.6
10°	1761.6	1804.9	1865.5	1904.7	1924.7	1925.4	1922.6	1913.0	1908.2	1908.9	1910.2
12.5°	1782.9	1831.1	1896.5	1929.5	1935.0	1919.9	1908.2	1891.7	1885.5	1882.7	1881.3
15°	1811.8	1866.9	1930.2	1942.6	1928.8	1909.5	1889.6	1862.8	1849.0	1838.0	1841.4
17.5°	1846.9	1907.5	1956.3	1947.4	1917.8	1886.1	1853.8	1813.2	1785.0	1773.3	1774.0
20°	1895.8	1950.1	1976.3	1937.1	1892.3	1844.2	1789.1	1739.6	1713.4	1701.7	1700.4
22.5°	1955.0	2007.3	1995.6	1919.2	1855.9	1778.8	1710.0	1673.5	1660.4	1652.2	1653.6
25°	2025.8	2070.6	2009.3	1893.0	1796.0	1692.1	1639.1	1627.4	1621.2	1615.0	1615.0
27.5°	2118.0	2142.1	2019.6	1854.5	1702.4	1599.9	1580.6	1582.7	1580.6	1570.3	1572.4
30°	2239.8	2235.0	2029.3	1791.9	1595.1	1516.6	1518.0	1526.9	1528.3	1521.4	1524.9
32.5°	2400.2	2351.3	2034.1	1710.7	1492.5	1443.7	1445.1	1454.7	1461.6	1449.9	1455.4
35°	2594.2	2486.9	2026.5	1608.8	1413.4	1374.2	1363.9	1366.6	1368.7	1357.7	1365.2
37.5°	2820.6	2639.0	1992.8	1496.0	1348.0	1306.1	1284.0	1265.5	1254.4	1244.1	1251.0
40°	3069.0	2804.8	1930.9	1385.9	1275.1	1233.8	1200.8	1165.7	1128.5	1114.8	1121.0
42.5°	3329.1	2975.4	1855.9	1280.6	1191.1	1157.4	1122.3	1071.4	1015.7	987.5	990.9
45°	3598.9	3150.2	1782.2	1176.7	1105.1	1090.7	1050.1	988.8	928.3	892.5	889.7
47.5°	3863.1	3315.4	1674.2	1072.1	1024.6	1040.4	1008.8	952.4	884.9	828.5	822.3
50°	4115.7	3470.2	1497.4	966.1	959.2	1025.3	995.0	913.8	836.8	764.5	758.3
52.5°	4366.1	3595.4	1271.0	869.8	924.2	1021.2	977.1	887.7	793.4	717.7	709.5
55°	4578.8	3660.1	1052.8	787.2	873.2	986.1	955.8	856.7	732.2	651.7	644.8
57.5°	4699.9	3607.8	871.2	706.0	803.0	928.3	919.3	790.7	659.2	597.3	589.0
60°	4647.6	3395.9	722.5	635.1	736.3	865.7	856.0	725.3	603.5	545.0	536.7
62.5°	4359.3	2992.0	604.9	573.2	675.7	801.7	792.7	675.0	560.8	504.4	495.4
65°	3778.5	2433.9	513.3	521.6	614.5	724.6	737.7	633.1	527.1	472.1	463.1
67.5°	2881.9	1763.0	441.8	476.9	554.6	648.9	686.7	602.8	498.9	446.6	438.3
70°	1642.6	1001.2	381.2	433.5	501.6	578.7	647.5	578.7	468.6	425.3	419.8
72.5°	622.8	459.7	329.6	390.2	450.7	519.5	604.2	540.9	433.5	401.2	395.7
75°	332.4	280.1	277.3	339.2	392.2	461.7	549.8	503.7	407.4	423.9	437.6
77.5°	226.4	198.2	231.9	290.4	328.2	397.7	492.0	447.3	353.0	351.6	324.1
80°	156.9	140.4	188.5	234.0	253.9	334.4	429.4	384.0	287.6	268.4	256.7
82.5°	94.3	91.5	141.1	174.8	179.6	258.0	355.8	322.0	235.3	205.1	206.4
85°	51.6	54.4	90.1	102.5	104.6	180.3	278.7	249.1	181.0	152.1	153.5
87.5°	14.5	18.6	33.0	40.6	50.2	93.6	165.8	147.9	90.8	63.3	63.3
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)