

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: McGRAW-EDISON

Report Number: P940099

Luminaire Tested: **GALN-SB3A-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940099
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: McGRAW-EDISON
Catalog Number: GALN-SB3A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13302 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 84.7
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



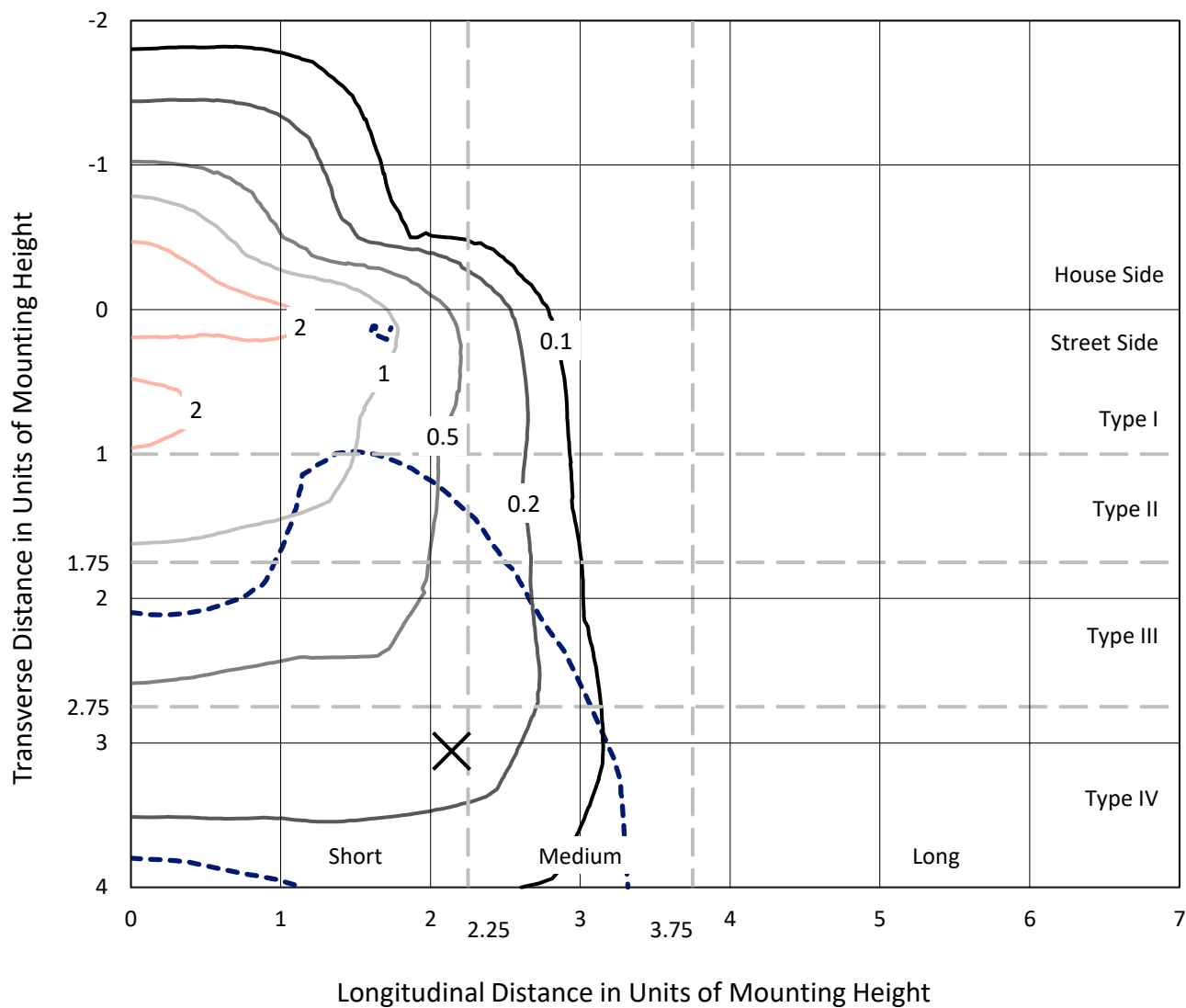
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



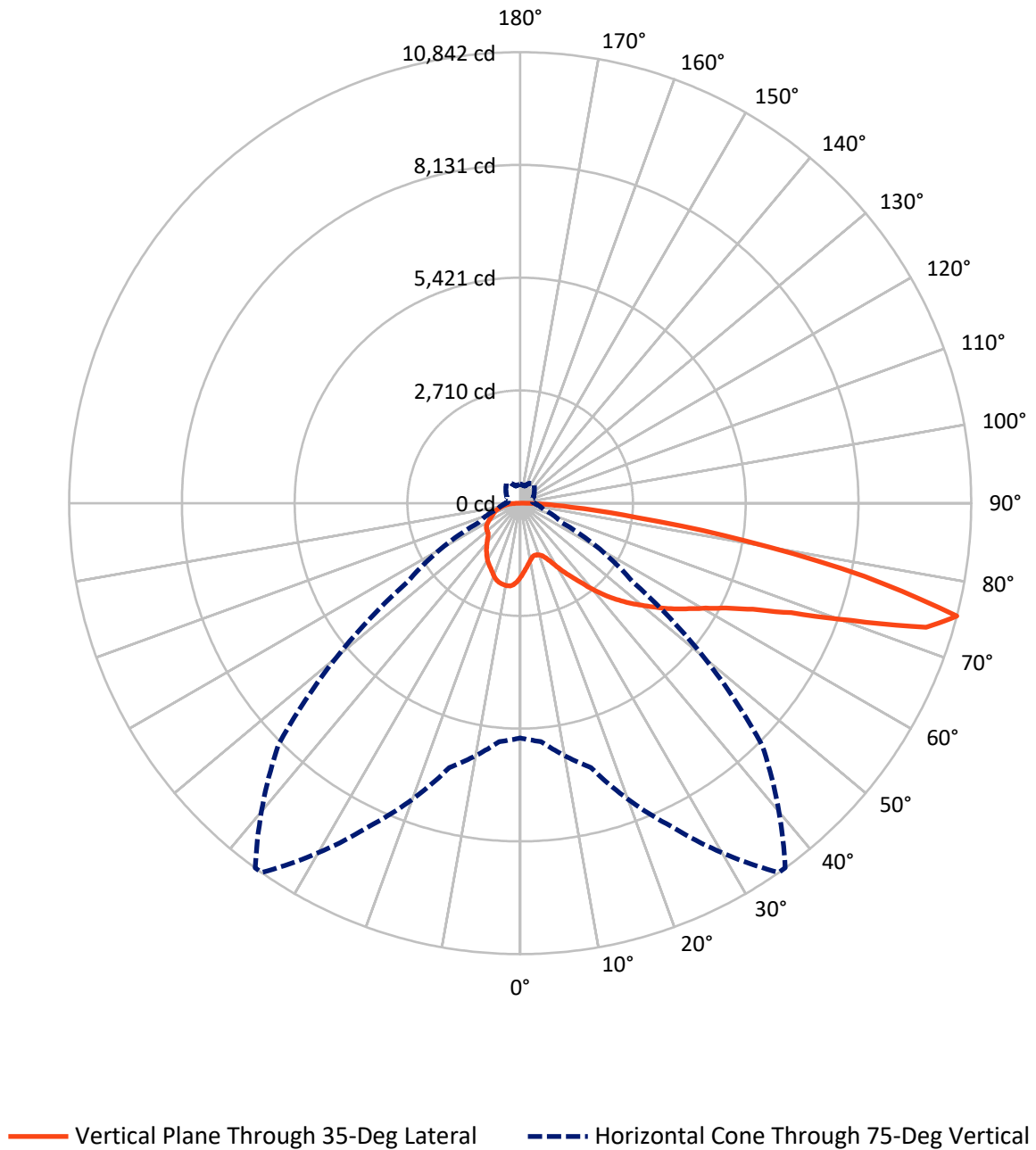
Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3165.5	0.0	3165.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10136.5	0.0	10136.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	13302.0	0.0	13302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	1.3
10°-20°	484.1	3.6
20°-30°	812.9	6.1
30°-40°	1263.4	9.5
40°-50°	1875.2	14.1
50°-60°	2588.8	19.5
60°-70°	3140.8	23.6
70°-80°	2595.6	19.5
80°-90°	373.3	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°	13302.0	100.0
0°-180°	13302.0	100.0

Coefficient of Utilization



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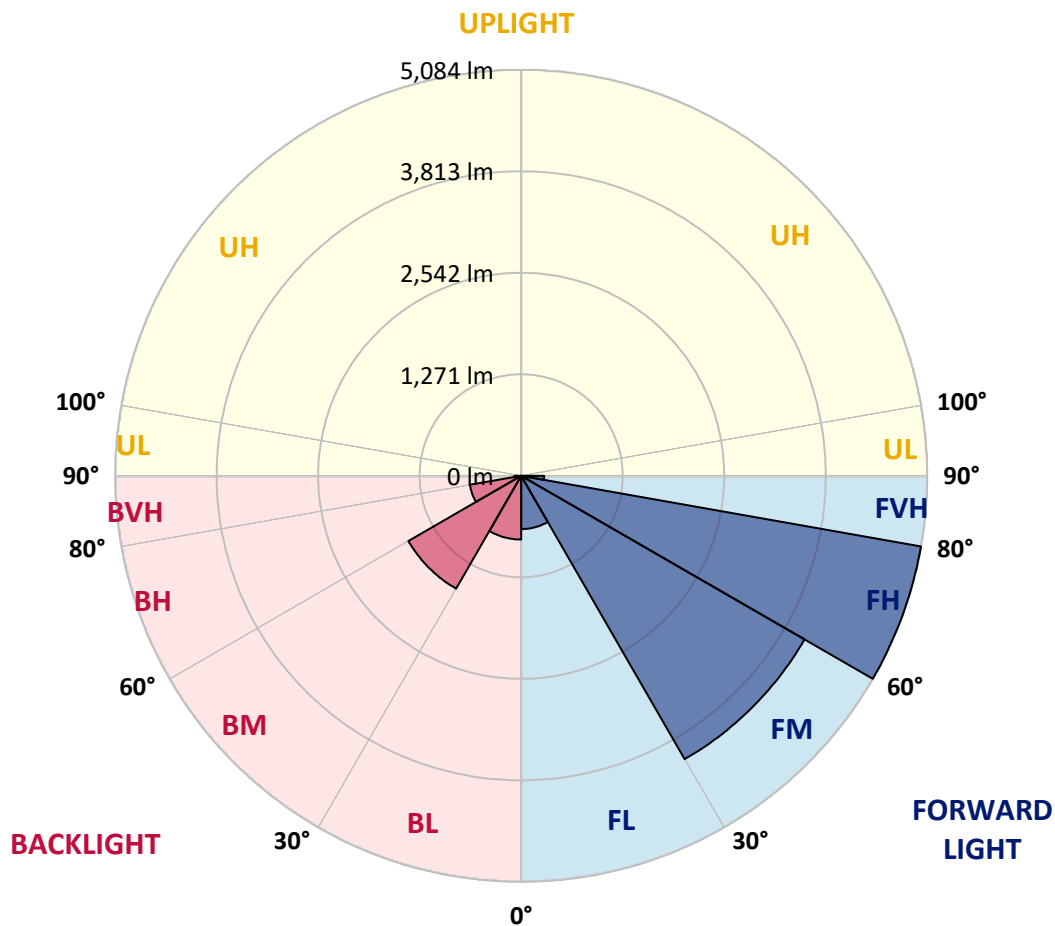
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.1	5.0			
FM	(30°-60°)	4096.3	30.8			
FH	(60°-80°)	5083.8	38.2			G3/7500
FVH	(80°-90°)	289.3	2.2			G3/500
BL	(0°-30°)	797.8	6.0	B2/1000		
BM	(30°-60°)	1631.1	12.3	B2/2500		
BH	(60°-80°)	652.6	4.9	B2/1000		G2/1000
BVH	(80°-90°)	84.1	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°	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6
2.5°	1634.5	1644.6	1648.9	1646.7	1657.5	1656.1	1671.2	1689.9	1715.8	1740.9	1777.6
5°	1508.7	1519.5	1528.8	1537.4	1558.3	1564.8	1588.5	1624.4	1671.9	1720.1	1780.5
7.5°	1391.5	1400.8	1415.2	1431.0	1466.2	1472.7	1512.3	1568.4	1634.5	1705.0	1788.4
10°	1295.8	1305.2	1320.3	1338.2	1382.1	1390.0	1440.4	1515.1	1601.4	1690.6	1797.0
12.5°	1254.8	1257.7	1266.3	1284.3	1322.4	1327.5	1382.8	1468.4	1569.1	1679.8	1810.0
15°	1252.7	1258.4	1259.1	1268.5	1300.1	1302.3	1353.3	1438.2	1548.9	1677.7	1829.4
17.5°	1274.2	1278.6	1272.1	1277.8	1304.4	1308.0	1348.3	1423.8	1542.5	1687.0	1862.5
20°	1331.8	1335.4	1316.0	1308.0	1327.5	1330.3	1369.9	1433.2	1548.9	1706.4	1907.8
22.5°	1454.0	1456.2	1408.7	1376.4	1377.8	1379.2	1413.8	1471.3	1574.1	1741.7	1965.3
25°	1644.6	1643.1	1567.6	1505.1	1469.1	1461.2	1484.2	1533.1	1616.5	1788.4	2039.4
27.5°	1867.5	1856.7	1781.2	1687.7	1609.3	1597.8	1592.8	1613.7	1676.9	1850.2	2130.0
30°	2119.2	2109.1	2027.9	1905.6	1797.0	1778.3	1730.9	1720.1	1766.8	1934.4	2255.8
32.5°	2395.3	2388.9	2291.8	2143.6	1998.4	1976.8	1897.0	1868.2	1904.9	2061.7	2431.3
35°	2626.9	2621.1	2540.6	2388.1	2210.5	2183.9	2102.6	2070.3	2089.0	2224.9	2660.7
37.5°	2836.1	2833.3	2764.2	2644.1	2460.8	2428.4	2337.1	2326.3	2322.7	2439.9	2939.0
40°	3030.3	3023.1	2951.2	2887.9	2752.0	2722.5	2642.0	2632.6	2605.3	2704.5	3253.9
42.5°	3245.3	3226.6	3122.3	3092.8	3056.2	3031.7	2983.5	2985.0	2924.6	3003.0	3587.6
45°	3420.8	3410.0	3302.8	3285.6	3325.1	3315.1	3356.8	3367.5	3250.3	3315.8	3934.2
47.5°	3609.2	3599.1	3508.5	3496.3	3603.4	3606.3	3753.7	3757.3	3568.2	3640.8	4281.5
50°	3841.4	3827.1	3737.2	3752.3	3872.4	3883.1	4152.8	4128.4	3860.8	3970.9	4626.0
52.5°	3994.6	4003.2	3983.8	4008.3	4172.2	4182.3	4545.4	4482.9	4150.6	4296.6	4963.9
55°	4107.5	4124.8	4185.2	4241.3	4488.6	4498.7	4915.8	4820.1	4390.8	4598.6	5281.8
57.5°	4252.8	4228.3	4341.2	4450.5	4789.2	4815.8	5276.0	5145.2	4603.7	4859.0	5499.7
60°	4461.3	4444.0	4531.8	4693.6	5125.7	5168.2	5657.2	5437.8	4759.7	5065.3	5542.1
62.5°	4884.1	4841.0	4854.6	4997.7	5550.0	5606.1	6087.2	5693.1	4837.4	5145.9	5314.9
65°	5516.2	5442.1	5373.1	5472.4	6147.6	6203.0	6572.6	5893.7	4808.6	4989.8	4711.5
67.5°	6312.3	6238.9	6154.1	6247.5	7027.8	7071.6	7171.6	6006.6	4582.1	4388.7	3645.1
70°	6968.8	6941.5	7042.9	7427.6	8433.6	8435.0	7939.6	5913.2	3961.5	3111.5	2109.1
72.5°	6881.8	6865.2	7399.5	8588.9	10205.5	10167.4	8666.6	5205.6	2668.6	1403.7	790.3
75°	5645.7	5752.8	6580.5	8568.1	10841.9	10836.8	8221.5	3309.3	1103.8	581.8	408.4
77.5°	3027.4	3197.1	4272.2	6325.9	8463.8	8591.1	5780.1	1157.8	473.9	372.5	282.6
80°	987.3	1135.5	1702.8	3220.8	5499.7	5475.9	2477.3	454.5	324.3	263.9	195.6
82.5°	419.2	436.5	760.8	1520.9	2822.5	2778.6	788.9	261.0	228.0	180.5	120.8
85°	164.0	183.4	335.8	703.3	1222.5	1195.9	284.8	129.4	146.0	117.9	71.9
87.5°	53.9	65.4	120.1	240.9	380.4	366.7	69.8	44.6	63.3	53.9	25.9
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°	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6	1772.6
2.5°	1787.7	1799.2	1812.9	1833.0	1850.2	1864.6	1879.7	1889.1	1892.7	1903.5	1902.7
5°	1800.6	1825.8	1859.6	1892.7	1925.0	1944.4	1961.7	1970.3	1978.2	1984.0	1985.4
7.5°	1822.2	1854.6	1907.8	1950.9	1978.2	1994.1	2005.6	2002.7	2005.6	2007.0	2009.2
10°	1840.9	1886.2	1949.5	1990.5	2011.3	2012.0	2009.2	1999.1	1994.1	1994.8	1996.2
12.5°	1863.2	1913.5	1981.8	2016.4	2022.1	2006.3	1994.1	1976.8	1970.3	1967.5	1966.0
15°	1893.4	1950.9	2017.1	2030.0	2015.6	1995.5	1974.6	1946.6	1932.2	1920.7	1924.3
17.5°	1930.1	1993.3	2044.4	2035.1	2004.1	1971.1	1937.3	1894.8	1865.3	1853.1	1853.8
20°	1981.1	2037.9	2065.3	2024.3	1977.5	1927.2	1869.7	1817.9	1790.6	1778.3	1776.9
22.5°	2043.0	2097.6	2085.4	2005.6	1939.4	1858.9	1787.0	1748.9	1735.2	1726.6	1728.0
25°	2117.0	2163.8	2099.8	1978.2	1876.9	1768.3	1712.9	1700.7	1694.2	1687.7	1687.7
27.5°	2213.4	2238.6	2110.6	1938.0	1779.1	1671.9	1651.8	1653.9	1651.8	1641.0	1643.1
30°	2340.7	2335.6	2120.6	1872.5	1666.9	1584.9	1586.3	1595.7	1597.1	1589.9	1593.5
32.5°	2508.2	2457.2	2125.7	1787.7	1559.7	1508.7	1510.1	1520.2	1527.4	1515.1	1520.9
35°	2711.0	2598.8	2117.7	1681.3	1477.0	1436.0	1425.3	1428.1	1430.3	1418.8	1426.7
37.5°	2947.6	2757.7	2082.5	1563.3	1408.7	1364.9	1341.8	1322.4	1310.9	1300.1	1307.3
40°	3207.2	2931.1	2017.8	1448.3	1332.5	1289.3	1254.8	1218.2	1179.3	1164.9	1171.4
42.5°	3479.0	3109.4	1939.4	1338.2	1244.8	1209.5	1172.9	1119.6	1061.4	1031.9	1035.5
45°	3760.9	3292.0	1862.5	1229.7	1154.9	1139.8	1097.3	1033.3	970.1	932.7	929.8
47.5°	4037.0	3464.6	1749.6	1120.4	1070.7	1087.3	1054.2	995.2	924.8	865.8	859.3
50°	4300.9	3626.4	1564.8	1009.6	1002.4	1071.5	1039.8	955.0	874.4	798.9	792.4
52.5°	4562.7	3757.3	1328.2	908.9	965.8	1067.1	1021.1	927.6	829.1	750.0	741.4
55°	4784.9	3824.9	1100.2	822.7	912.5	1030.5	998.8	895.3	765.1	681.0	673.8
57.5°	4911.5	3770.2	910.4	737.8	839.2	970.1	960.7	826.2	688.9	624.2	615.5
60°	4856.8	3548.8	755.1	663.7	769.4	904.6	894.6	757.9	630.7	569.5	560.9
62.5°	4555.5	3126.6	632.1	599.0	706.2	837.8	828.4	705.4	586.1	527.1	517.8
65°	3948.6	2543.5	536.4	545.1	642.2	757.2	770.9	661.6	550.8	493.3	484.0
67.5°	3011.6	1842.3	461.7	498.3	579.6	678.1	717.7	629.9	521.3	466.7	458.1
70°	1716.5	1046.3	398.4	453.0	524.2	604.8	676.7	604.8	489.7	444.4	438.7
72.5°	650.8	480.4	344.4	407.7	471.0	542.9	631.4	565.2	453.0	419.2	413.5
75°	347.3	292.7	289.8	354.5	409.9	482.5	574.6	526.4	425.7	443.0	457.3
77.5°	236.6	207.1	242.3	303.5	343.0	415.6	514.2	467.4	368.9	367.5	338.7
80°	164.0	146.7	197.0	244.5	265.3	349.5	448.7	401.3	300.6	280.4	268.2
82.5°	98.5	95.6	147.4	182.7	187.7	269.7	371.8	336.5	245.9	214.3	215.7
85°	53.9	56.8	94.2	107.1	109.3	188.4	291.2	260.3	189.1	158.9	160.4
87.5°	15.1	19.4	34.5	42.4	52.5	97.8	173.3	154.6	94.9	66.2	66.2
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)