

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: P939749

Luminaire Tested: **GALN-SB2C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939749
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-SB2C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13730 lumens
Efficiency: N/A
Efficacy: 136.1 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): 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

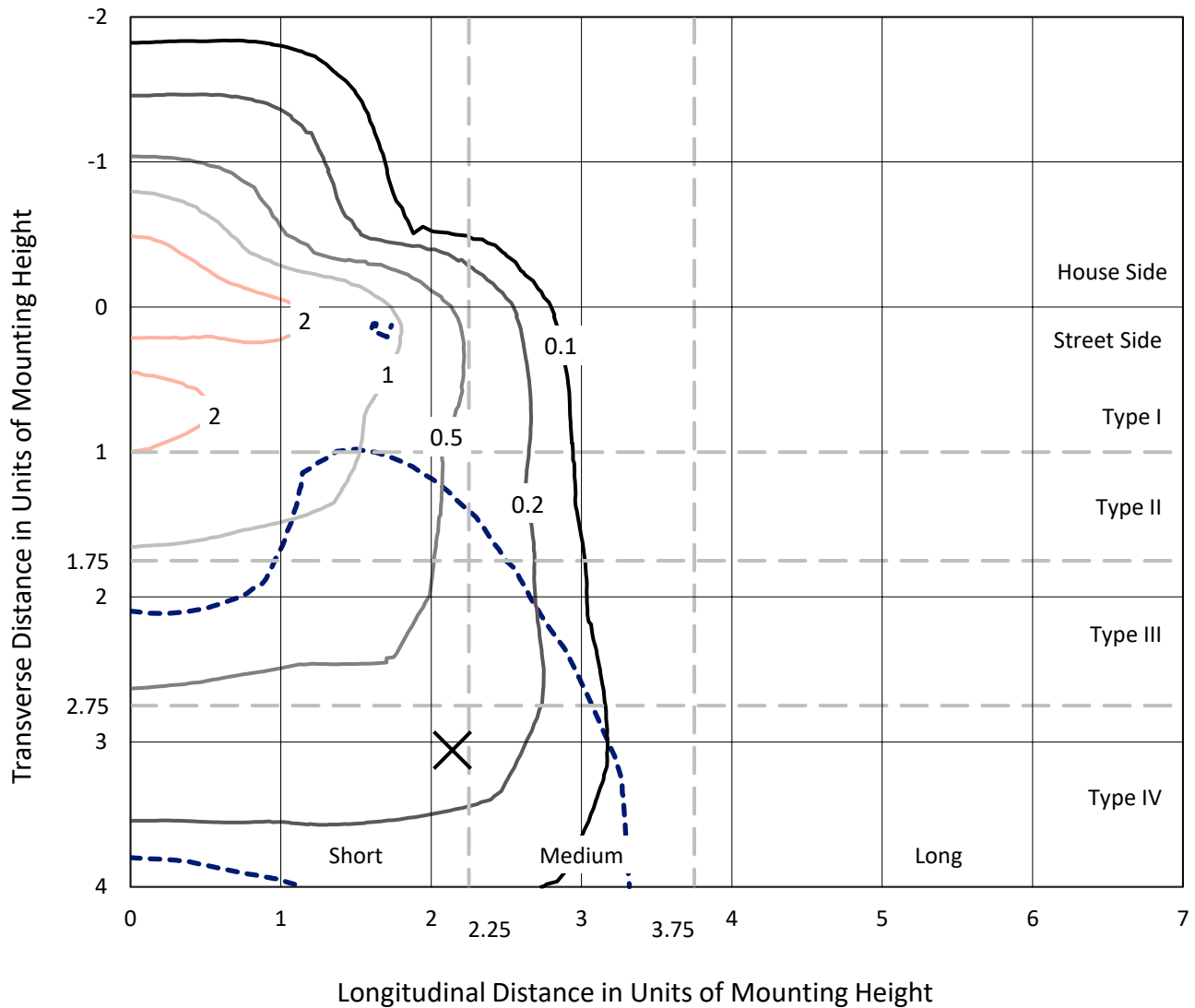


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

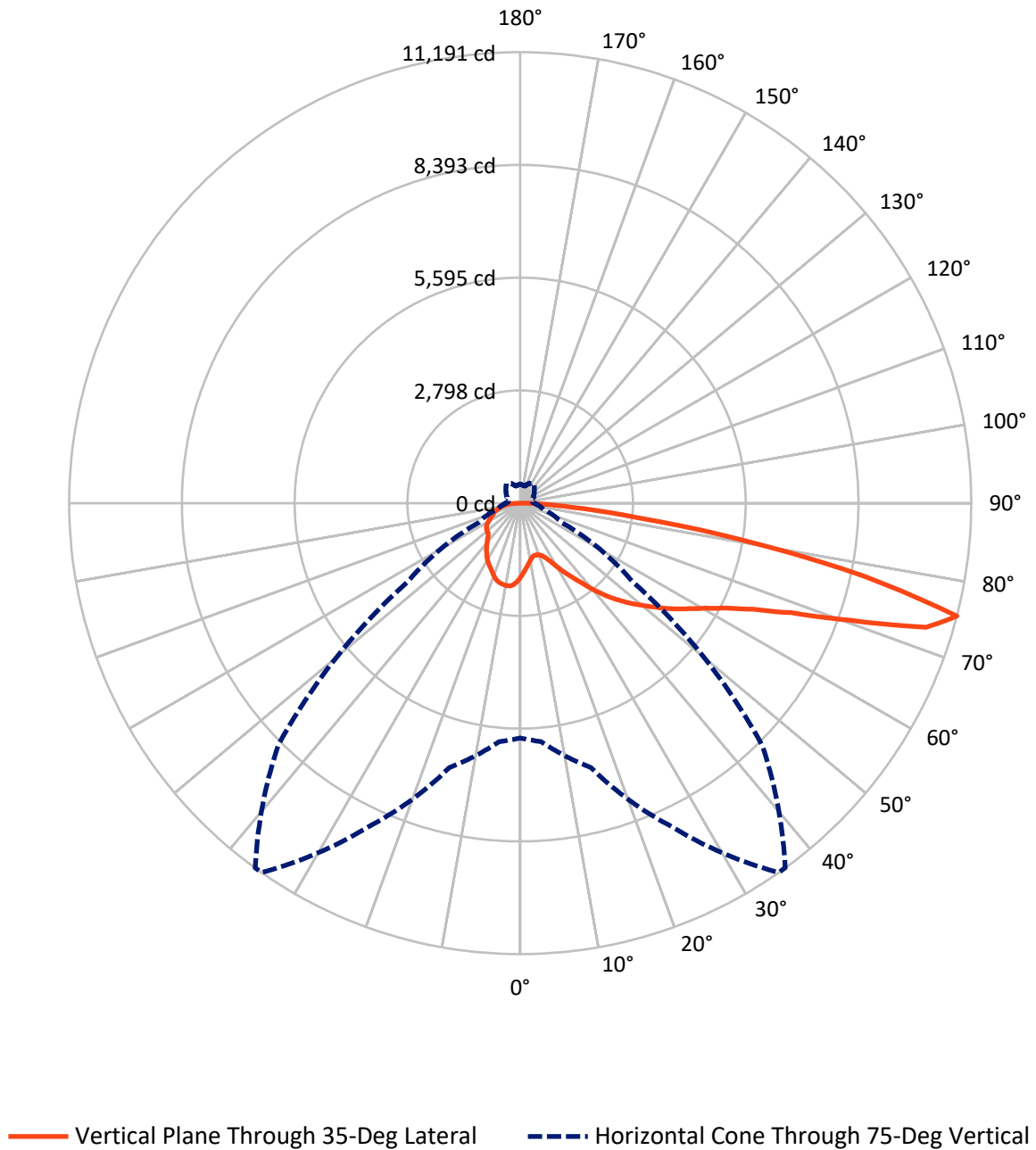


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3267.4	0.0	3267.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10462.6	0.0	10462.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	13730.0	0.0	13730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.3
10°-20°	499.7	3.6
20°-30°	839.1	6.1
30°-40°	1304.0	9.5
40°-50°	1935.5	14.1
50°-60°	2672.1	19.5
60°-70°	3241.9	23.6
70°-80°	2679.2	19.5
80°-90°	385.3	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°	13730.0	100.0
0°-180°	13730.0	100.0

Coefficient of Utilization



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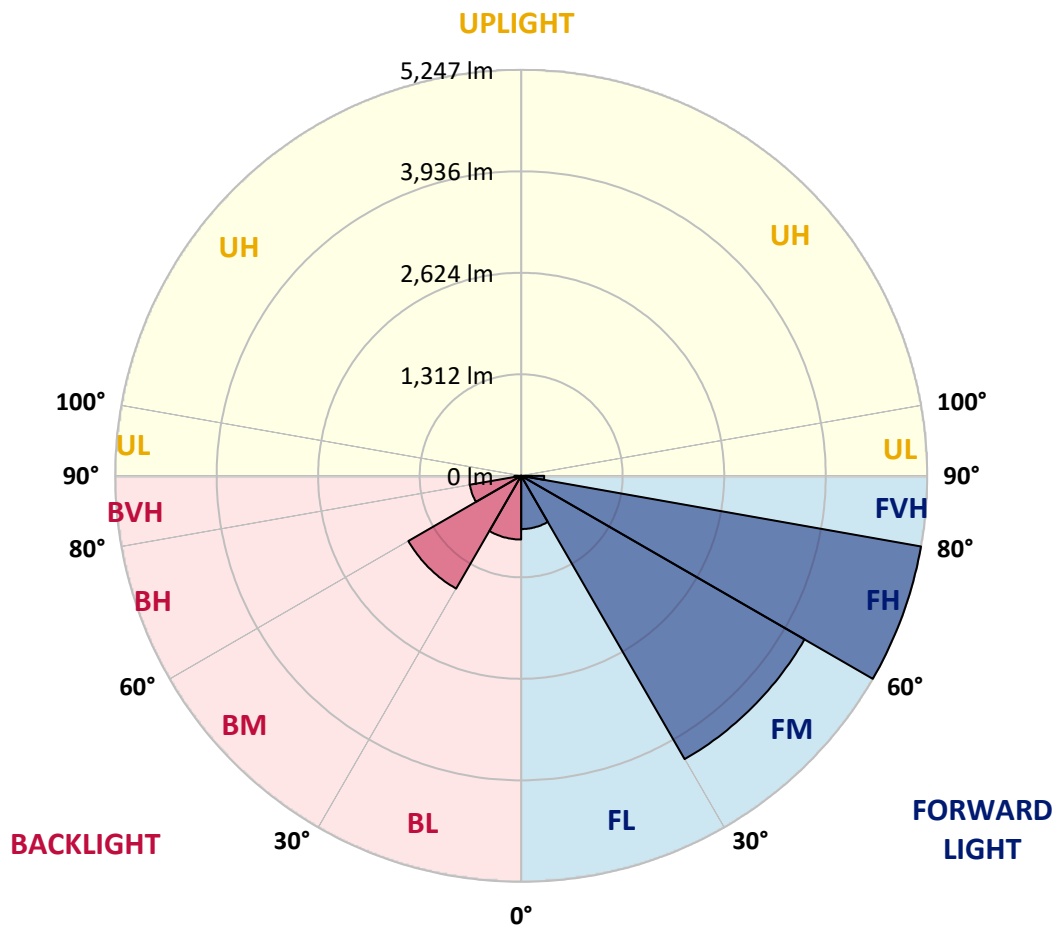
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	688.5	5.0			
FM	(30°-60°)	4228.1	30.8			
FH	(60°-80°)	5247.4	38.2			G3/7500
FVH	(80°-90°)	298.6	2.2			G3/500
BL	(0°-30°)	823.4	6.0	B2/1000		
BM	(30°-60°)	1683.6	12.3	B2/2500		
BH	(60°-80°)	673.6	4.9	B2/1000		G2/1000
BVH	(80°-90°)	86.8	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°	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6
2.5°	1687.1	1697.5	1702.0	1699.7	1710.9	1709.4	1725.0	1744.3	1771.0	1797.0	1834.8
5°	1557.2	1568.3	1578.0	1586.9	1608.4	1615.1	1639.6	1676.7	1725.7	1775.4	1837.8
7.5°	1436.2	1445.9	1460.7	1477.1	1513.4	1520.1	1560.9	1618.8	1687.1	1759.8	1845.9
10°	1337.5	1347.2	1362.7	1381.3	1426.6	1434.7	1486.7	1563.9	1653.0	1745.0	1854.9
12.5°	1295.2	1298.2	1307.1	1325.6	1365.0	1370.2	1427.3	1515.6	1619.6	1733.9	1868.2
15°	1293.0	1298.9	1299.7	1309.3	1342.0	1344.2	1396.9	1484.5	1598.8	1731.6	1888.3
17.5°	1315.2	1319.7	1313.0	1319.0	1346.4	1350.1	1391.7	1469.6	1592.1	1741.3	1922.4
20°	1374.6	1378.3	1358.3	1350.1	1370.2	1373.1	1414.0	1479.3	1598.8	1761.3	1969.2
22.5°	1500.8	1503.0	1454.0	1420.6	1422.1	1423.6	1459.2	1518.6	1624.8	1797.7	2028.5
25°	1697.5	1696.0	1618.1	1553.5	1516.4	1508.2	1532.0	1582.5	1668.5	1845.9	2105.0
27.5°	1927.6	1916.5	1838.5	1742.0	1661.1	1649.3	1644.1	1665.6	1730.9	1909.8	2198.5
30°	2187.4	2177.0	2093.1	1966.9	1854.9	1835.6	1786.6	1775.4	1823.7	1996.6	2328.4
32.5°	2472.4	2465.7	2365.5	2212.6	2062.7	2040.4	1958.0	1928.3	1966.2	2128.0	2509.5
35°	2711.4	2705.5	2622.3	2465.0	2281.6	2254.2	2170.3	2136.9	2156.2	2296.5	2746.3
37.5°	2927.4	2924.4	2853.2	2729.2	2539.9	2506.5	2412.3	2401.1	2397.4	2518.4	3033.5
40°	3127.8	3120.4	3046.1	2980.8	2840.5	2810.1	2727.0	2717.3	2689.1	2791.6	3358.6
42.5°	3349.7	3330.4	3222.8	3192.4	3154.5	3129.3	3079.5	3081.0	3018.7	3099.6	3703.0
45°	3530.8	3519.7	3409.1	3391.3	3432.1	3421.7	3464.8	3475.9	3354.9	3422.5	4060.8
47.5°	3725.3	3714.9	3621.4	3608.8	3719.4	3722.3	3874.5	3878.2	3683.0	3757.9	4419.3
50°	3965.0	3950.2	3857.4	3873.0	3996.9	4008.1	4286.4	4261.2	3985.1	4098.6	4774.8
52.5°	4123.1	4132.0	4112.0	4137.2	4306.5	4316.9	4691.7	4627.1	4284.2	4434.9	5123.7
55°	4239.7	4257.5	4319.8	4377.7	4633.0	4643.4	5073.9	4975.2	4532.1	4746.6	5451.7
57.5°	4389.6	4364.4	4480.9	4593.7	4943.3	4970.8	5445.8	5310.7	4751.8	5015.3	5676.6
60°	4604.8	4587.0	4677.6	4844.6	5290.7	5334.5	5839.2	5612.8	4912.9	5228.3	5720.4
62.5°	5041.3	4996.7	5010.8	5158.6	5728.6	5786.5	6283.0	5876.3	4993.0	5311.5	5485.9
65°	5693.7	5617.3	5546.0	5648.4	6345.4	6402.5	6784.1	6083.4	4963.3	5150.4	4863.1
67.5°	6515.4	6439.7	6352.1	6448.6	7253.9	7299.2	7402.3	6199.9	4729.5	4529.9	3762.4
70°	7193.0	7164.8	7269.5	7666.6	8705.0	8706.4	8195.0	6103.4	4089.0	3211.7	2177.0
72.5°	7103.2	7086.1	7637.6	8865.3	10533.8	10494.5	8945.4	5373.1	2754.4	1448.8	815.7
75°	5827.3	5937.9	6792.2	8843.8	11190.7	11185.5	8486.0	3415.8	1139.3	600.5	421.6
77.5°	3124.8	3300.0	4409.6	6529.5	8736.1	8867.5	5966.1	1195.0	489.1	384.5	291.7
80°	1019.1	1172.0	1757.6	3324.5	5676.6	5652.1	2557.0	469.1	334.7	272.4	201.9
82.5°	432.7	450.5	785.3	1569.8	2913.3	2868.0	814.2	269.4	235.3	186.3	124.7
85°	169.2	189.3	346.6	725.9	1261.8	1234.3	293.9	133.6	150.7	121.7	74.2
87.5°	55.7	67.5	124.0	248.6	392.6	378.5	72.0	46.0	65.3	55.7	26.7
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°	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6	1829.6
2.5°	1845.2	1857.1	1871.2	1892.0	1909.8	1924.6	1940.2	1949.9	1953.6	1964.7	1964.0
5°	1858.6	1884.5	1919.4	1953.6	1987.0	2007.0	2024.8	2033.7	2041.9	2047.8	2049.3
7.5°	1880.8	1914.2	1969.2	2013.7	2041.9	2058.2	2070.1	2067.1	2070.1	2071.6	2073.8
10°	1900.1	1946.9	2012.2	2054.5	2076.0	2076.8	2073.8	2063.4	2058.2	2059.0	2060.5
12.5°	1923.1	1975.1	2045.6	2081.2	2087.2	2070.8	2058.2	2040.4	2033.7	2030.8	2029.3
15°	1954.3	2013.7	2082.0	2095.3	2080.5	2059.7	2038.2	2009.2	1994.4	1982.5	1986.2
17.5°	1992.2	2057.5	2110.2	2100.5	2068.6	2034.5	1999.6	1955.8	1925.4	1912.7	1913.5
20°	2044.9	2103.5	2131.7	2089.4	2041.2	1989.2	1929.8	1876.4	1848.2	1835.6	1834.1
22.5°	2108.7	2165.1	2152.5	2070.1	2001.8	1918.7	1844.5	1805.1	1791.0	1782.1	1783.6
25°	2185.1	2233.4	2167.3	2041.9	1937.2	1825.2	1768.0	1755.4	1748.7	1742.0	1742.0
27.5°	2284.6	2310.6	2178.5	2000.3	1836.3	1725.7	1704.9	1707.1	1704.9	1693.8	1696.0
30°	2416.0	2410.8	2188.9	1932.8	1720.5	1635.9	1637.4	1647.0	1648.5	1641.1	1644.8
32.5°	2588.9	2536.2	2194.1	1845.2	1609.9	1557.2	1558.7	1569.1	1576.5	1563.9	1569.8
35°	2798.2	2682.4	2185.9	1735.4	1524.6	1482.2	1471.1	1474.1	1476.3	1464.4	1472.6
37.5°	3042.4	2846.5	2149.5	1613.6	1454.0	1408.8	1385.0	1365.0	1353.1	1342.0	1349.4
40°	3310.4	3025.4	2082.7	1494.9	1375.4	1330.8	1295.2	1257.4	1217.3	1202.4	1209.1
42.5°	3590.9	3209.4	2001.8	1381.3	1284.8	1248.4	1210.6	1155.7	1095.5	1065.1	1068.8
45°	3881.9	3398.0	1922.4	1269.2	1192.0	1176.4	1132.7	1066.6	1001.3	962.7	959.7
47.5°	4166.9	3576.1	1805.9	1156.4	1105.2	1122.3	1088.1	1027.3	954.5	893.7	887.0
50°	4439.3	3743.1	1615.1	1042.1	1034.7	1105.9	1073.3	985.7	902.6	824.6	817.9
52.5°	4709.5	3878.2	1370.9	938.2	996.8	1101.5	1054.0	957.5	855.8	774.2	765.2
55°	4938.8	3948.0	1135.6	849.1	941.9	1063.6	1031.0	924.1	789.7	702.9	695.5
57.5°	5069.5	3891.6	939.7	761.5	866.2	1001.3	991.6	852.8	711.1	644.3	635.4
60°	5013.1	3662.9	779.3	685.1	794.2	933.7	923.3	782.3	650.9	587.9	578.9
62.5°	4702.1	3227.2	652.4	618.3	728.9	864.7	855.1	728.1	604.9	544.1	534.4
65°	4075.6	2625.3	553.7	562.6	662.8	781.6	795.7	682.9	568.6	509.2	499.5
67.5°	3108.5	1901.6	476.5	514.4	598.2	699.9	740.8	650.2	538.1	481.7	472.8
70°	1771.7	1080.0	411.2	467.6	541.1	624.2	698.4	624.2	505.5	458.7	452.8
72.5°	671.7	495.8	355.5	420.8	486.2	560.4	651.7	583.4	467.6	432.7	426.8
75°	358.5	302.1	299.1	365.9	423.1	498.0	593.0	543.3	439.4	457.2	472.1
77.5°	244.2	213.8	250.1	313.2	354.0	429.0	530.7	482.5	380.8	379.3	349.6
80°	169.2	151.4	203.4	252.4	273.9	360.7	463.2	414.2	310.3	289.5	276.9
82.5°	101.7	98.7	152.2	188.5	193.7	278.3	383.7	347.4	253.8	221.2	222.7
85°	55.7	58.6	97.2	110.6	112.8	194.5	300.6	268.7	195.2	164.0	165.5
87.5°	15.6	20.0	35.6	43.8	54.2	100.9	178.9	159.6	98.0	68.3	68.3
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)