

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: P947727

Luminaire Tested: **GALN-SB3A-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12459 lumens
Efficiency: N/A
Efficacy: 147.1 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

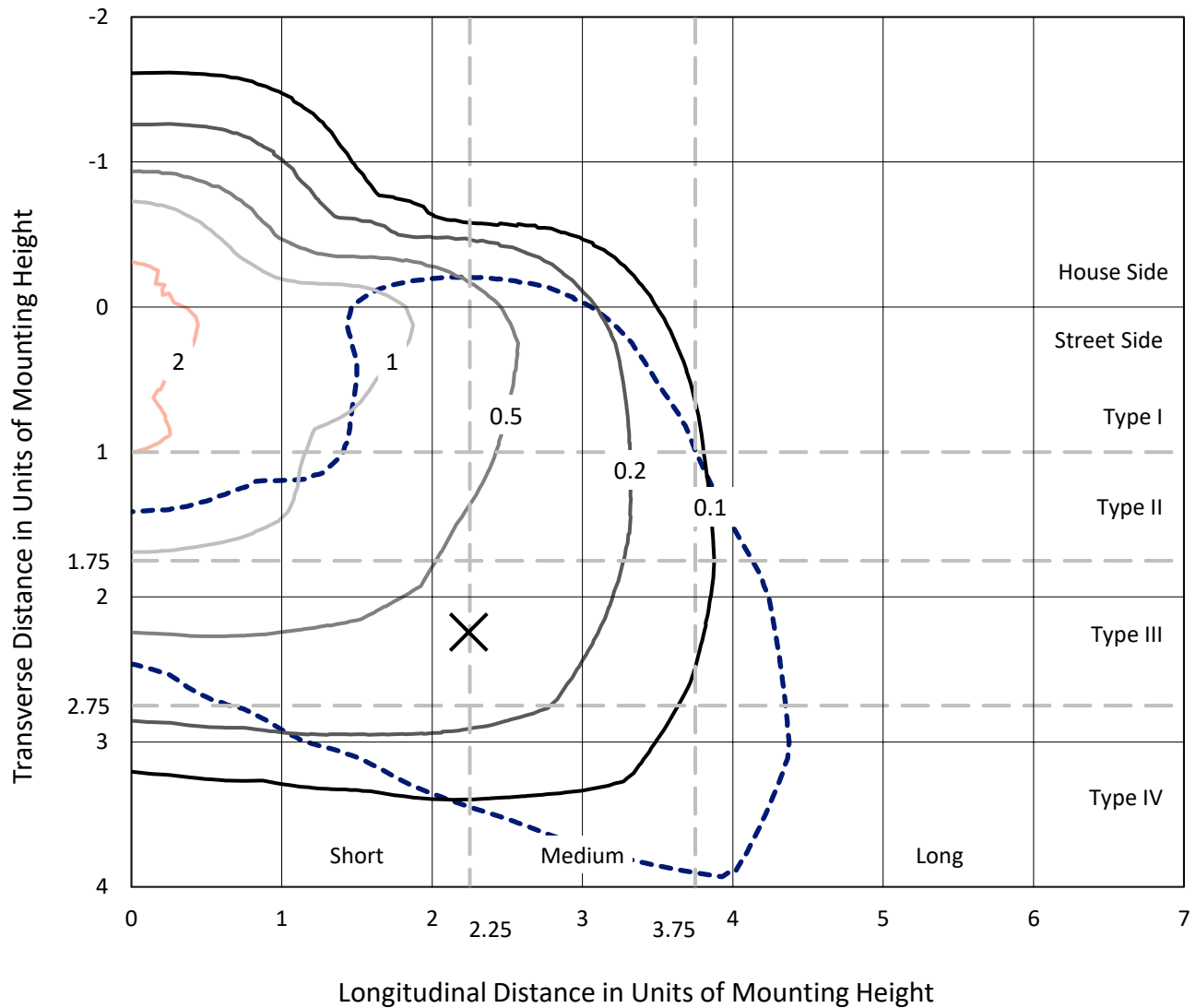


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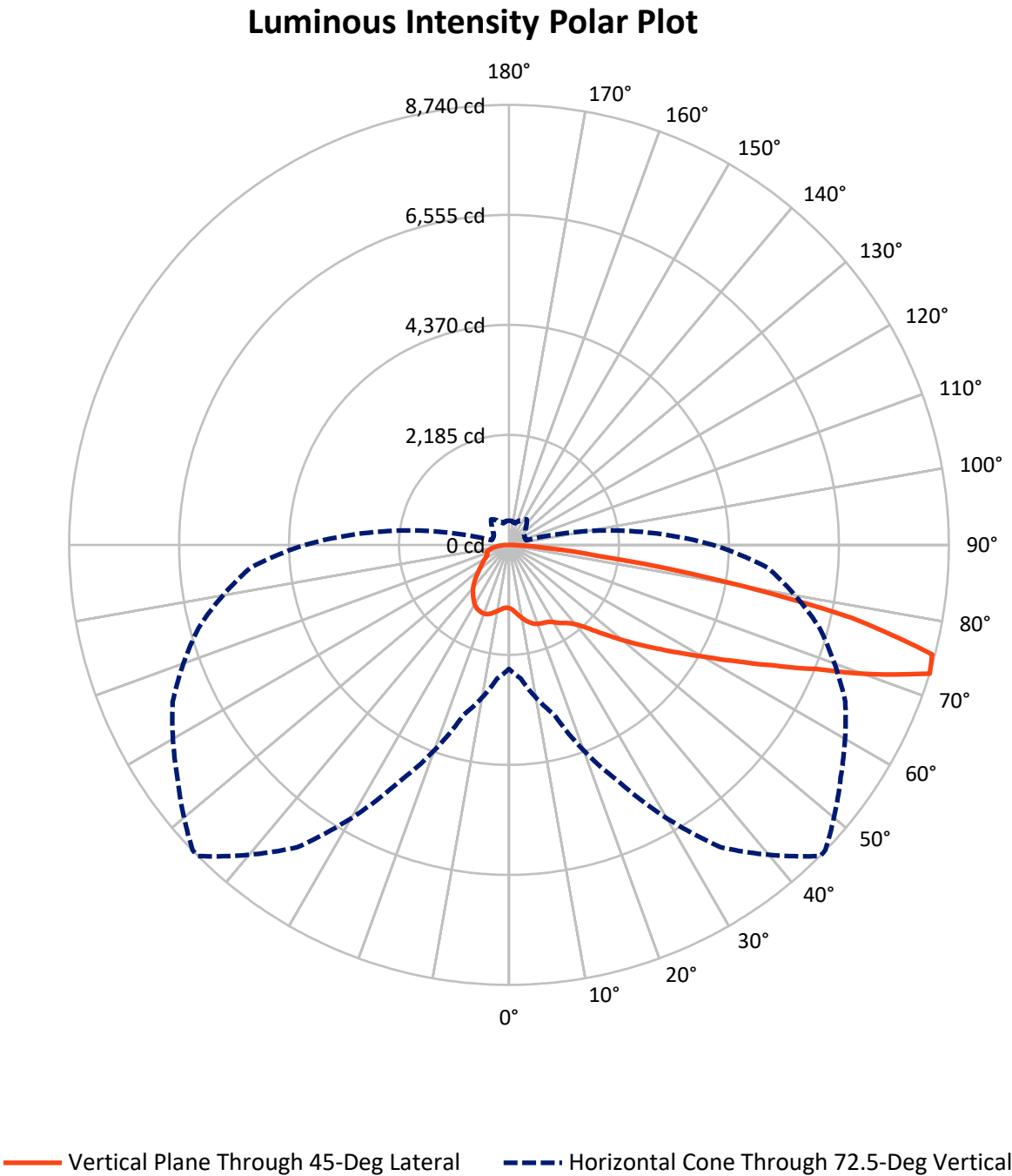
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2816.6	0.0	2816.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9642.4	0.0	9642.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	12459.0	0.0	12459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.0
10°-20°	426.5	3.4
20°-30°	742.0	6.0
30°-40°	1063.6	8.5
40°-50°	1497.7	12.0
50°-60°	2294.0	18.4
60°-70°	3323.1	26.7
70°-80°	2653.7	21.3
80°-90°	330.5	2.7
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°	12459.0	100.0
0°-180°	12459.0	100.0

Coefficient of Utilization



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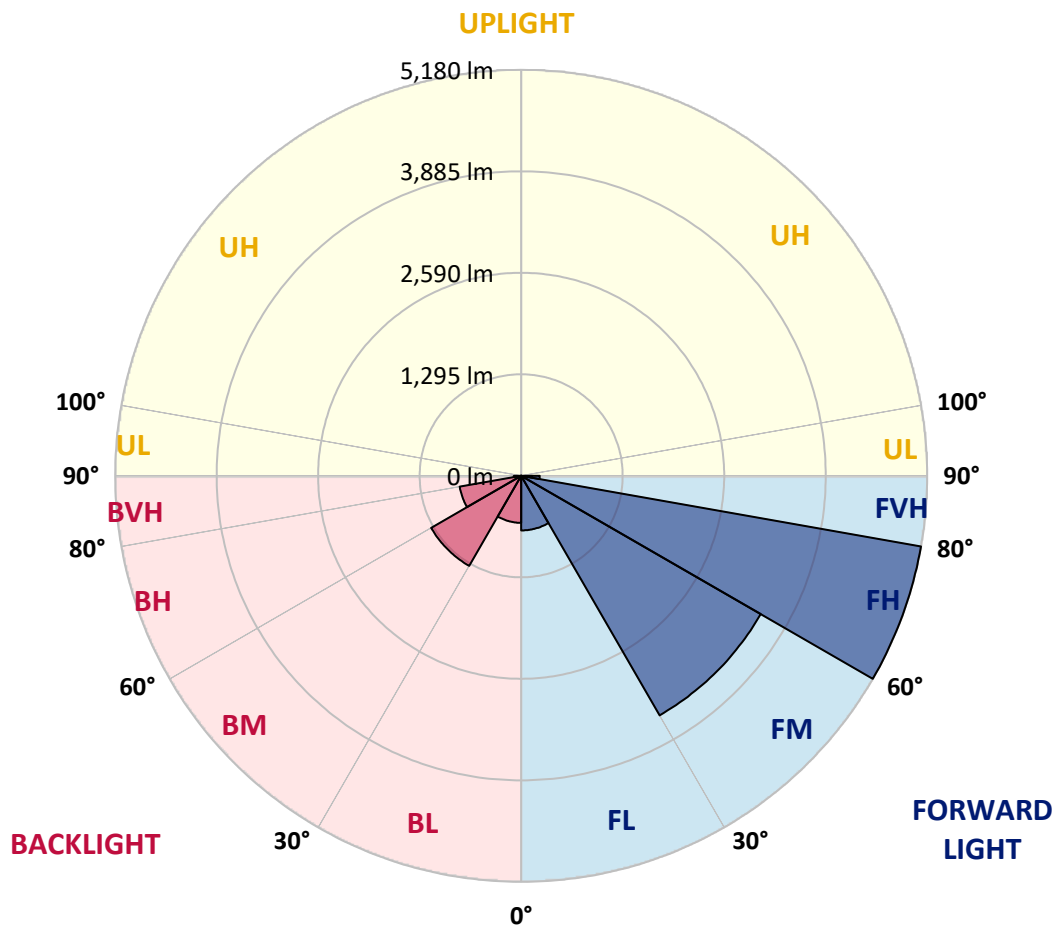
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.7	5.6			
FM	(30°-60°)	3529.0	28.3			
FH	(60°-80°)	5179.6	41.6			G3/7500
FVH	(80°-90°)	237.1	1.9			G3/500
BL	(0°-30°)	599.7	4.8	B2/1000		
BM	(30°-60°)	1326.2	10.6	B2/2500		
BH	(60°-80°)	797.3	6.4	B2/1000		G2/1000
BVH	(80°-90°)	93.4	0.7			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°	45°	46°	55°	65°	75°	85°
0°	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9
2.5°	1306.1	1314.6	1306.8	1299.5	1296.3	1287.7	1287.1	1281.8	1278.5	1269.3	1266.7
5°	1397.3	1408.5	1395.4	1380.9	1367.8	1346.8	1344.2	1329.1	1312.0	1292.3	1281.2
7.5°	1500.4	1510.2	1495.1	1473.5	1450.5	1415.7	1415.0	1387.5	1360.6	1327.1	1308.1
10°	1590.3	1603.4	1583.1	1553.5	1524.7	1485.3	1480.7	1449.2	1415.0	1371.7	1342.8
12.5°	1669.7	1678.9	1659.2	1623.1	1589.6	1550.2	1544.3	1509.6	1471.5	1422.3	1385.5
15°	1732.7	1744.5	1718.3	1679.5	1644.1	1605.4	1600.1	1568.6	1530.6	1478.7	1431.5
17.5°	1774.1	1783.9	1757.0	1713.7	1679.5	1647.4	1643.4	1617.2	1583.7	1531.2	1480.7
20°	1789.8	1800.3	1772.1	1728.1	1696.6	1671.7	1669.7	1650.7	1627.7	1579.8	1528.6
22.5°	1805.6	1815.4	1778.7	1732.7	1705.1	1689.4	1688.7	1676.3	1667.1	1627.7	1577.8
25°	1869.2	1871.9	1822.6	1756.3	1717.0	1703.2	1702.5	1701.9	1705.8	1675.0	1631.0
27.5°	1924.4	1923.7	1881.7	1819.3	1758.3	1729.4	1728.8	1735.3	1747.8	1722.2	1686.1
30°	2005.1	1997.9	1948.0	1883.0	1827.2	1782.6	1778.7	1772.7	1782.6	1762.2	1741.2
32.5°	2176.4	2153.4	2072.7	1957.2	1884.3	1850.2	1844.9	1808.2	1812.1	1799.7	1789.2
35°	2421.9	2391.7	2284.0	2097.6	1955.2	1906.6	1904.0	1857.4	1849.5	1838.4	1842.3
37.5°	2713.9	2676.5	2551.2	2301.1	2077.3	1972.3	1968.3	1926.3	1894.2	1882.4	1904.7
40°	3007.3	2960.0	2856.3	2549.2	2257.1	2081.9	2069.4	2005.7	1969.0	1949.3	1996.6
42.5°	3292.1	3252.8	3164.2	2827.5	2479.0	2242.0	2214.5	2105.5	2077.9	2059.6	2144.9
45°	3544.2	3508.7	3443.8	3124.8	2738.9	2459.9	2433.0	2255.1	2246.6	2246.6	2370.0
47.5°	3749.0	3741.1	3672.2	3428.0	3045.4	2708.0	2661.4	2463.2	2486.2	2521.6	2689.6
50°	3976.0	3954.4	3880.9	3726.6	3405.7	2992.2	2954.1	2718.5	2804.5	2901.6	3151.7
52.5°	4184.8	4196.6	4114.5	4037.7	3812.6	3309.2	3242.3	3019.8	3205.5	3366.3	3693.2
55°	4399.4	4400.0	4377.1	4366.6	4239.2	3659.7	3586.2	3382.1	3677.4	3876.9	4324.6
57.5°	4600.9	4602.2	4636.3	4728.9	4734.1	4064.0	3980.6	3827.1	4201.8	4405.3	4975.6
60°	4780.7	4789.9	4883.1	5099.7	5169.2	4527.4	4448.6	4352.8	4743.9	4948.7	5660.2
62.5°	4841.1	4874.6	5082.0	5389.8	5599.1	5095.7	5018.3	4961.2	5313.6	5504.0	6232.5
65°	4738.7	4815.5	5216.5	5629.3	6041.5	5771.1	5694.3	5632.0	5905.7	6084.8	6702.4
67.5°	4487.3	4586.4	5208.6	5880.7	6578.4	6583.6	6512.1	6365.7	6540.3	6609.2	6855.4
70°	3825.1	3973.4	4749.9	5974.6	7194.7	7694.8	7625.9	7249.2	7173.7	6840.3	6424.8
72.5°	2464.5	2664.0	3497.6	5202.1	7331.9	8740.3	8736.4	8046.6	7373.9	6391.3	5152.8
75°	899.2	1021.2	1625.1	3265.2	6154.4	8687.2	8712.8	7910.1	6731.3	4936.9	3210.1
77.5°	327.5	358.4	530.3	1254.9	3785.1	6970.2	7023.4	6323.7	4791.2	2477.6	1272.0
80°	172.0	189.0	271.7	487.0	1621.8	4139.5	4222.8	3758.1	2251.9	746.2	381.3
82.5°	95.2	103.0	152.3	264.5	730.5	1770.1	1820.0	1484.6	792.2	316.4	157.5
85°	51.2	54.5	71.5	144.4	357.0	613.7	627.5	443.7	315.7	185.7	76.1
87.5°	15.1	18.4	23.6	45.9	139.8	137.8	141.1	87.9	124.7	93.9	24.9
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°	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9	1256.9
2.5°	1262.8	1260.8	1253.6	1250.3	1246.4	1245.7	1249.0	1249.7	1250.3	1251.0	1253.6
5°	1274.6	1268.0	1261.5	1257.5	1258.8	1259.5	1266.1	1270.7	1273.9	1276.6	1277.9
7.5°	1297.6	1292.3	1281.2	1280.5	1282.5	1288.4	1296.9	1307.4	1313.3	1317.9	1319.2
10°	1331.7	1321.8	1308.7	1310.7	1314.6	1323.2	1340.9	1349.4	1359.3	1367.8	1365.8
12.5°	1366.5	1357.9	1342.8	1344.2	1350.7	1365.8	1382.9	1393.4	1400.0	1406.5	1409.1
15°	1411.8	1396.7	1380.3	1380.3	1392.1	1408.5	1416.4	1424.9	1428.8	1436.0	1438.7
17.5°	1458.4	1438.7	1417.0	1415.7	1430.1	1438.0	1442.6	1443.9	1445.2	1453.1	1455.7
20°	1505.0	1483.3	1452.5	1449.8	1453.1	1451.8	1451.1	1449.8	1451.8	1461.6	1465.6
22.5°	1550.9	1526.0	1483.3	1471.5	1462.3	1449.8	1449.2	1448.5	1449.8	1459.7	1466.2
25°	1604.7	1574.5	1517.4	1482.0	1451.1	1434.1	1436.0	1436.7	1438.0	1445.9	1456.4
27.5°	1663.1	1629.7	1548.9	1478.7	1422.9	1411.1	1407.8	1409.8	1414.4	1426.9	1439.3
30°	1721.6	1682.2	1577.8	1465.6	1387.5	1371.1	1360.6	1365.2	1379.6	1392.1	1405.9
32.5°	1774.7	1735.3	1600.8	1436.7	1342.2	1316.6	1302.8	1308.7	1323.2	1327.8	1344.2
35°	1837.1	1792.4	1610.6	1390.8	1293.0	1253.6	1235.2	1226.7	1233.9	1229.3	1243.7
37.5°	1906.6	1860.0	1609.3	1330.4	1235.2	1189.9	1164.3	1132.2	1117.1	1101.3	1111.2
40°	2009.7	1942.7	1593.6	1257.5	1163.7	1122.3	1076.4	1021.9	987.8	956.9	958.9
42.5°	2150.1	2057.6	1564.7	1177.5	1082.9	1044.2	981.9	918.2	864.4	813.2	808.6
45°	2359.5	2207.9	1528.6	1092.1	995.7	957.6	890.0	818.4	757.4	691.8	683.9
47.5°	2661.4	2410.0	1494.5	995.0	903.8	869.0	807.9	741.7	669.5	605.8	598.6
50°	3076.2	2700.1	1463.0	900.5	813.2	786.9	738.4	670.8	597.9	546.7	543.4
52.5°	3603.9	3094.6	1449.8	809.3	728.5	718.7	680.0	616.9	548.0	504.7	501.4
55°	4209.7	3566.5	1449.8	722.0	654.4	657.6	630.7	572.3	512.6	473.9	469.9
57.5°	4828.0	4044.3	1423.6	641.2	591.4	605.1	588.1	536.9	483.1	443.0	436.5
60°	5397.7	4444.7	1317.3	567.7	535.6	557.2	546.1	502.1	436.5	403.0	397.7
62.5°	5835.4	4670.4	1112.5	509.3	489.6	514.6	508.7	456.1	427.9	414.1	409.5
65°	6054.6	4633.7	850.6	457.5	450.9	489.6	477.2	475.2	452.9	437.1	431.9
67.5°	5920.1	4317.3	616.9	419.4	428.6	466.7	514.6	522.4	481.1	450.2	445.0
70°	5330.1	3745.0	459.4	383.3	400.4	467.3	586.8	546.7	471.9	435.8	429.9
72.5°	4054.8	2792.7	356.4	345.2	363.6	470.6	618.9	535.6	445.6	481.7	477.8
75°	2318.8	1533.2	286.2	298.6	317.7	439.7	602.5	506.7	425.3	442.4	442.4
77.5°	884.1	589.4	236.3	252.7	255.3	384.0	576.3	504.7	405.0	395.1	360.3
80°	306.5	230.4	195.6	200.8	197.6	341.3	552.6	439.1	331.4	296.7	286.8
82.5°	125.4	114.9	154.9	148.3	140.5	265.2	446.3	359.0	271.1	239.6	236.9
85°	54.5	72.9	102.4	89.9	81.4	183.8	357.7	303.9	229.1	197.6	196.9
87.5°	11.2	27.6	43.3	40.7	42.0	122.7	254.0	215.9	162.1	121.4	95.2
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)