

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: P452702

Luminaire Tested: **GALN-SA3C-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16773 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

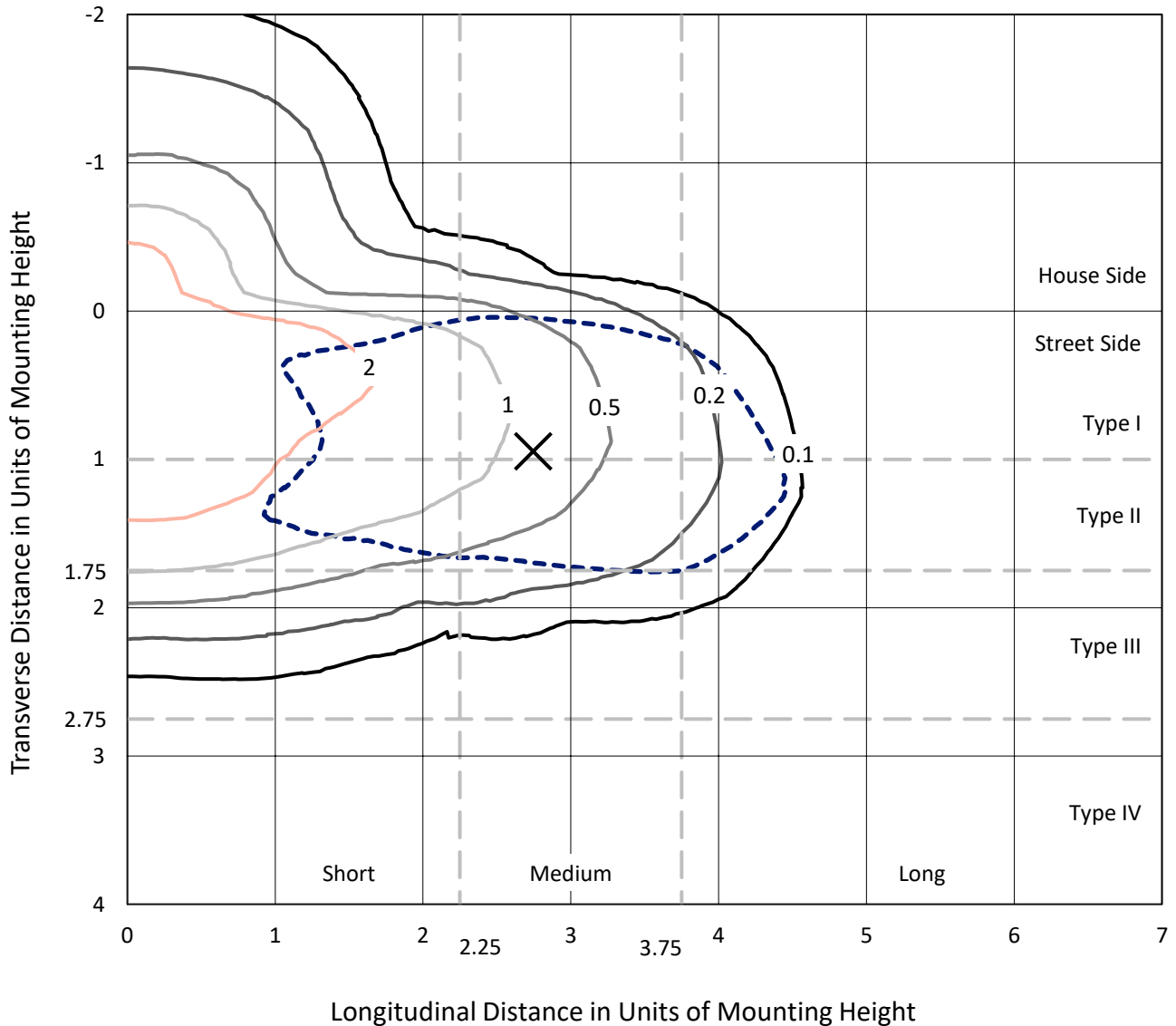
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

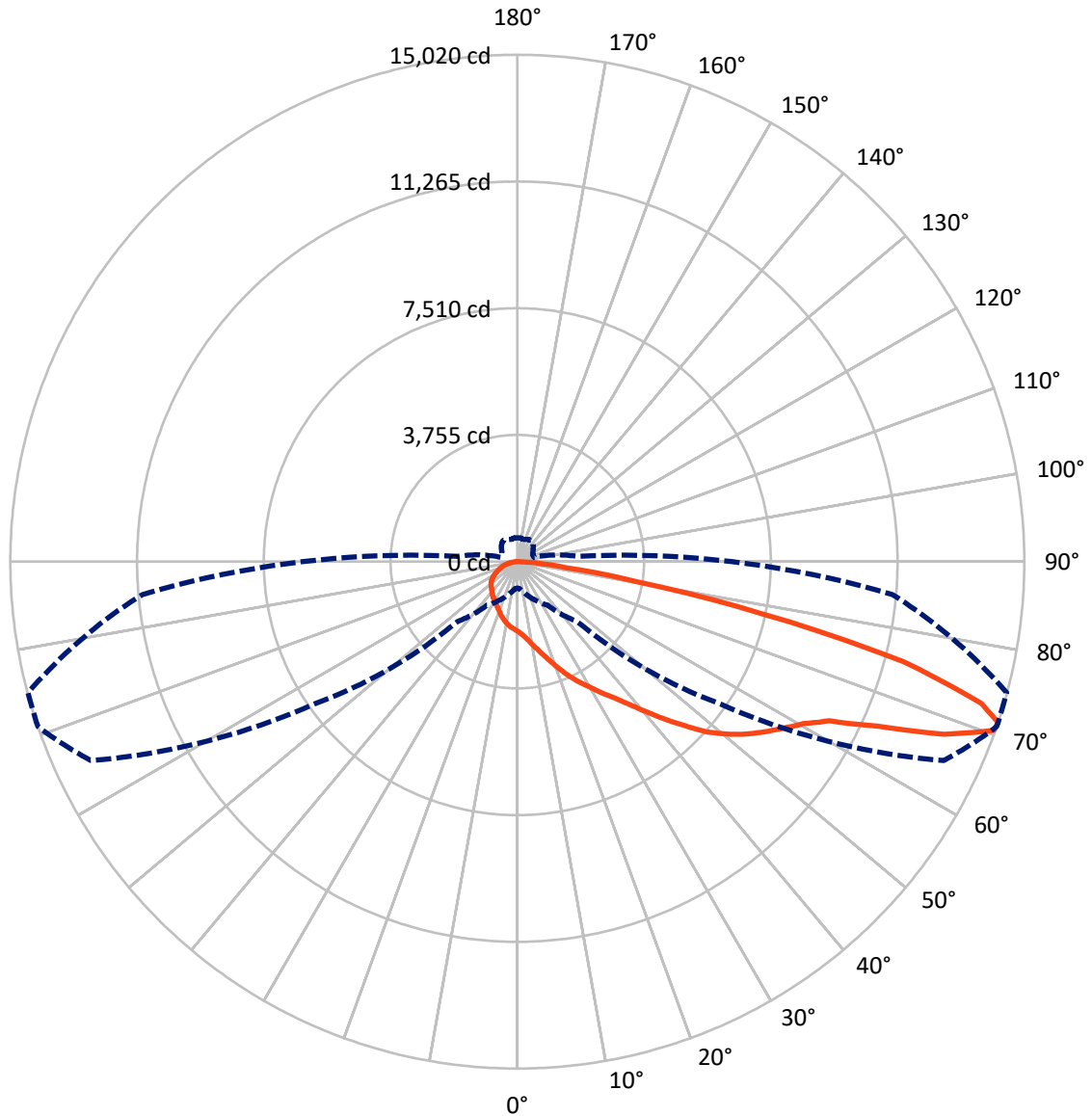
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.6	0.0	3016.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	13756.4	0.0	13756.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	16773.0	0.0	16773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.2
10°-20°	671.5	4.0
20°-30°	1173.6	7.0
30°-40°	1745.5	10.4
40°-50°	2571.8	15.3
50°-60°	3600.5	21.5
60°-70°	4027.1	24.0
70°-80°	2459.9	14.7
80°-90°	316.4	1.9
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°	16773.0	100.0
0°-180°	16773.0	100.0

Coefficient of Utilization



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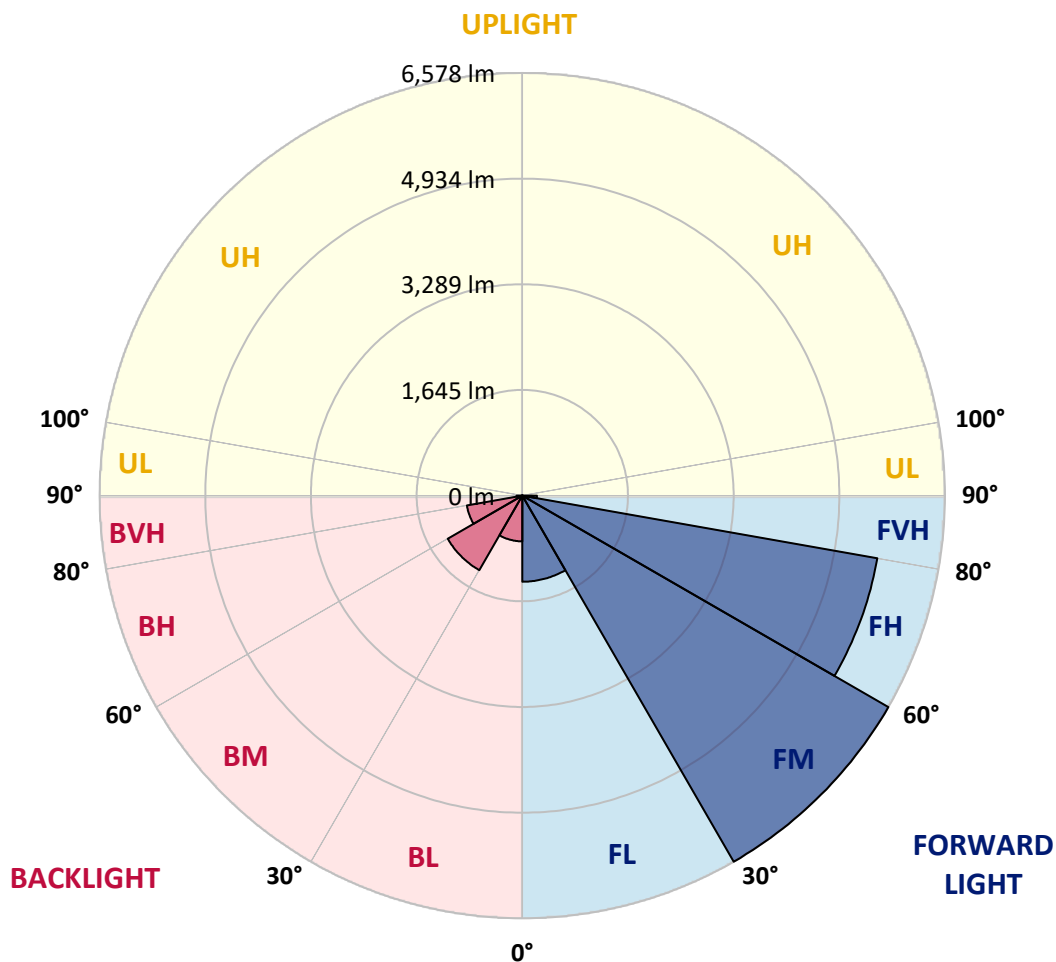
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1340.2	8.0			
FM	(30°-60°)	6578.0	39.2			
FH	(60°-80°)	5610.5	33.4			G3/7500
FVH	(80°-90°)	227.7	1.4			G3/500
BL	(0°-30°)	711.6	4.2	B2/1000		
BM	(30°-60°)	1339.8	8.0	B2/2500		
BH	(60°-80°)	876.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	88.7	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6
2.5°	2285.3	2274.3	2275.2	2259.5	2239.2	2217.1	2185.8	2158.1	2136.0	2123.1	2085.3
5°	2532.4	2521.3	2507.5	2473.4	2458.7	2404.3	2335.1	2272.4	2224.5	2197.8	2122.2
7.5°	2732.4	2729.7	2726.0	2706.6	2668.8	2593.2	2534.2	2425.5	2354.5	2303.8	2174.7
10°	2856.0	2860.6	2863.4	2867.0	2851.4	2811.7	2730.6	2593.2	2502.9	2438.4	2242.9
12.5°	2918.7	2923.3	2938.9	2973.1	2994.3	2989.7	2923.3	2788.7	2664.2	2579.4	2315.8
15°	2957.4	2964.8	2992.4	3037.6	3108.6	3153.7	3121.5	2997.0	2860.6	2760.1	2402.4
17.5°	2999.8	3008.1	3038.5	3103.0	3196.2	3293.9	3328.9	3222.0	3073.5	2953.7	2499.2
20°	3023.8	3034.8	3078.2	3163.0	3271.7	3413.7	3529.9	3473.6	3311.4	3178.6	2610.8
22.5°	3062.5	3071.7	3108.6	3198.9	3328.9	3506.8	3730.8	3718.9	3576.0	3404.5	2733.4
25°	3167.6	3182.3	3200.8	3255.2	3380.5	3601.8	3897.7	3980.7	3832.2	3640.5	2845.8
27.5°	3365.8	3377.8	3376.8	3384.2	3455.2	3683.8	4042.4	4239.7	4086.7	3879.3	2954.6
30°	3591.6	3596.2	3599.9	3583.3	3599.0	3767.7	4175.2	4496.0	4343.0	4124.5	3049.6
32.5°	3866.4	3875.6	3844.2	3801.8	3788.9	3892.2	4284.9	4752.3	4646.3	4373.4	3143.6
35°	4190.9	4214.8	4151.2	4076.5	4024.0	4071.0	4432.4	5014.1	4956.9	4691.4	3268.1
37.5°	4561.5	4591.0	4532.0	4385.4	4310.7	4323.6	4625.1	5337.7	5349.7	5053.7	3453.4
40°	4864.8	4903.5	4905.3	4697.9	4584.5	4599.3	4869.4	5686.1	5823.5	5501.8	3671.8
42.5°	5064.8	5102.6	5142.2	5020.6	4901.6	4985.5	5154.2	6064.1	6356.4	6045.7	3977.0
45°	5284.2	5318.3	5340.4	5285.1	5218.8	5436.3	5498.1	6466.1	6924.2	6653.2	4310.7
47.5°	5538.6	5576.4	5597.6	5545.1	5520.2	5831.8	5868.7	6841.3	7530.8	7243.2	4679.5
50°	5877.9	5906.5	5895.4	5862.2	5856.7	6135.1	6224.5	7192.5	8031.4	7878.4	5062.0
52.5°	6300.1	6334.2	6346.2	6299.2	6278.0	6351.7	6511.2	7512.4	8486.8	8424.1	5470.4
55°	6555.5	6609.9	6792.4	6866.2	6916.9	6632.0	6820.1	7865.5	8895.2	8999.4	5909.2
57.5°	6228.2	6298.3	6706.7	7075.4	7552.0	7332.6	7258.0	8234.2	9303.6	9557.1	6434.7
60°	5429.9	5445.5	5971.9	6651.4	7610.1	8233.3	8171.5	8820.5	9746.1	10119.5	7127.0
62.5°	3766.8	3800.0	4422.3	5506.4	6892.9	8557.8	9725.8	9832.8	10380.4	10961.1	8142.0
65°	1942.4	1899.1	2466.0	3460.7	5196.6	7787.1	10985.1	11694.0	11755.8	12277.6	9570.9
67.5°	1195.7	1215.0	1480.5	2020.8	3072.6	5659.4	10853.3	13968.3	13642.9	13893.6	10897.5
70°	897.9	921.9	1104.4	1382.8	1873.3	3235.8	8728.3	14519.6	14974.1	14909.5	11301.3
71°	780.8	805.7	995.6	1258.4	1573.6	2497.4	7353.8	13942.5	15020.2	15009.1	11149.2
72.5°	665.6	681.3	829.7	1065.7	1326.6	1750.6	5524.8	12504.4	14379.5	14747.3	10606.2
75°	522.7	534.7	601.1	813.1	1044.5	1074.9	2964.8	9374.6	11810.2	12510.8	8829.8
77.5°	425.9	434.2	468.3	603.8	805.7	761.5	1555.2	6101.9	7399.0	8104.2	5201.2
80°	338.3	347.5	367.8	409.3	603.8	543.0	742.1	3092.0	3574.1	3566.7	2076.1
82.5°	262.7	265.5	289.5	300.5	413.0	385.3	401.9	1309.1	1450.1	1498.1	749.5
85°	165.9	174.2	256.3	230.5	247.1	225.9	198.2	519.9	640.7	631.5	299.6
87.5°	50.7	53.5	86.7	97.7	109.7	98.6	72.8	153.0	187.1	202.8	74.7
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°	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6
2.5°	2070.5	2060.4	2024.4	1994.9	1967.3	1936.9	1911.1	1903.7	1897.2	1894.5	1893.5
5°	2089.9	2059.5	1988.5	1930.4	1884.3	1841.9	1815.2	1803.2	1791.2	1791.2	1794.9
7.5°	2117.6	2062.2	1952.5	1865.9	1807.8	1768.2	1748.8	1747.0	1749.7	1752.5	1753.4
10°	2148.0	2060.4	1900.0	1792.1	1740.5	1722.1	1723.0	1738.7	1753.4	1764.5	1766.3
12.5°	2177.5	2049.3	1838.2	1723.0	1689.8	1693.5	1719.3	1754.3	1782.9	1798.6	1799.5
15°	2210.7	2031.8	1763.6	1657.5	1646.5	1675.1	1723.0	1776.5	1819.8	1845.6	1848.4
17.5°	2238.3	2002.3	1685.2	1593.9	1607.8	1660.3	1726.7	1795.8	1848.4	1880.6	1886.2
20°	2269.7	1964.5	1604.1	1533.1	1572.7	1643.7	1719.3	1794.0	1848.4	1879.7	1887.1
22.5°	2294.6	1911.1	1526.6	1483.3	1541.4	1623.4	1694.4	1754.3	1798.6	1815.2	1826.2
25°	2304.7	1843.8	1453.8	1442.7	1516.5	1590.2	1638.2	1672.3	1686.1	1684.3	1688.9
27.5°	2299.2	1766.3	1391.1	1410.5	1485.1	1538.6	1562.6	1559.8	1534.9	1511.9	1522.9
30°	2276.1	1674.1	1338.6	1377.3	1444.6	1474.1	1470.4	1434.4	1387.4	1344.1	1346.9
32.5°	2234.6	1574.6	1289.7	1339.5	1387.4	1400.3	1375.4	1328.4	1261.1	1204.9	1196.6
35°	2199.6	1479.6	1246.4	1296.2	1330.3	1323.8	1299.8	1239.0	1178.2	1128.4	1120.1
37.5°	2194.1	1398.5	1204.9	1247.3	1266.7	1257.4	1227.9	1176.3	1154.2	1116.4	1111.8
40°	2223.6	1341.3	1162.5	1195.7	1204.9	1197.5	1165.3	1135.8	1156.0	1146.8	1146.8
42.5°	2303.8	1310.9	1124.7	1144.1	1151.4	1157.0	1133.9	1109.0	1133.9	1091.5	1077.7
45°	2431.0	1311.8	1090.6	1093.3	1115.5	1134.8	1119.2	1082.3	1069.4	984.6	968.0
47.5°	2618.1	1343.2	1062.9	1045.4	1085.1	1117.3	1095.2	1041.7	984.6	928.3	918.2
50°	2836.6	1399.4	1038.0	995.6	1044.5	1095.2	1078.6	1015.9	956.9	922.8	916.3
52.5°	3079.1	1470.4	1007.6	940.3	994.7	1085.1	1082.3	1012.2	931.1	908.1	902.5
55°	3378.7	1540.5	969.8	875.8	950.5	1076.8	1072.1	981.8	925.6	909.0	907.1
57.5°	3727.2	1641.9	915.4	810.3	899.8	1042.6	1032.5	963.4	907.1	895.1	894.2
60°	4288.6	1799.5	838.0	750.4	848.1	982.7	995.6	932.0	877.6	874.9	873.9
62.5°	5027.0	2020.8	757.8	688.6	788.2	905.3	942.2	889.6	846.3	860.1	862.0
65°	6046.6	2207.0	674.8	636.1	721.8	830.6	891.5	850.0	811.3	838.0	838.0
67.5°	6711.3	2210.7	599.2	581.7	654.5	767.9	838.0	803.0	766.1	811.3	813.1
70°	6573.0	1936.9	536.5	524.5	589.1	700.6	779.0	751.3	708.9	749.5	734.7
71°	6349.9	1784.8	511.6	502.4	563.3	668.4	751.3	728.3	685.9	712.6	704.3
72.5°	5994.1	1549.7	471.1	472.9	524.5	627.8	712.6	688.6	646.2	661.0	658.2
75°	5066.6	1353.3	402.9	411.2	450.8	558.7	635.2	616.7	573.4	573.4	570.6
77.5°	3167.6	945.8	334.6	339.3	382.6	478.5	545.8	530.1	488.6	474.8	471.1
80°	1181.8	488.6	261.8	267.3	294.1	377.0	451.7	437.0	394.6	378.9	364.1
82.5°	447.1	245.2	192.7	188.1	216.6	287.6	354.0	336.5	303.3	265.5	254.4
85°	168.7	121.7	118.0	114.3	127.2	170.5	219.4	215.7	180.7	154.0	151.2
87.5°	44.3	39.6	46.1	34.1	36.0	32.3	33.2	13.8	6.5	2.8	1.8
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)