

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: P452992

Luminaire Tested: **GALN-SA4A-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452992
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-SA4A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15216 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

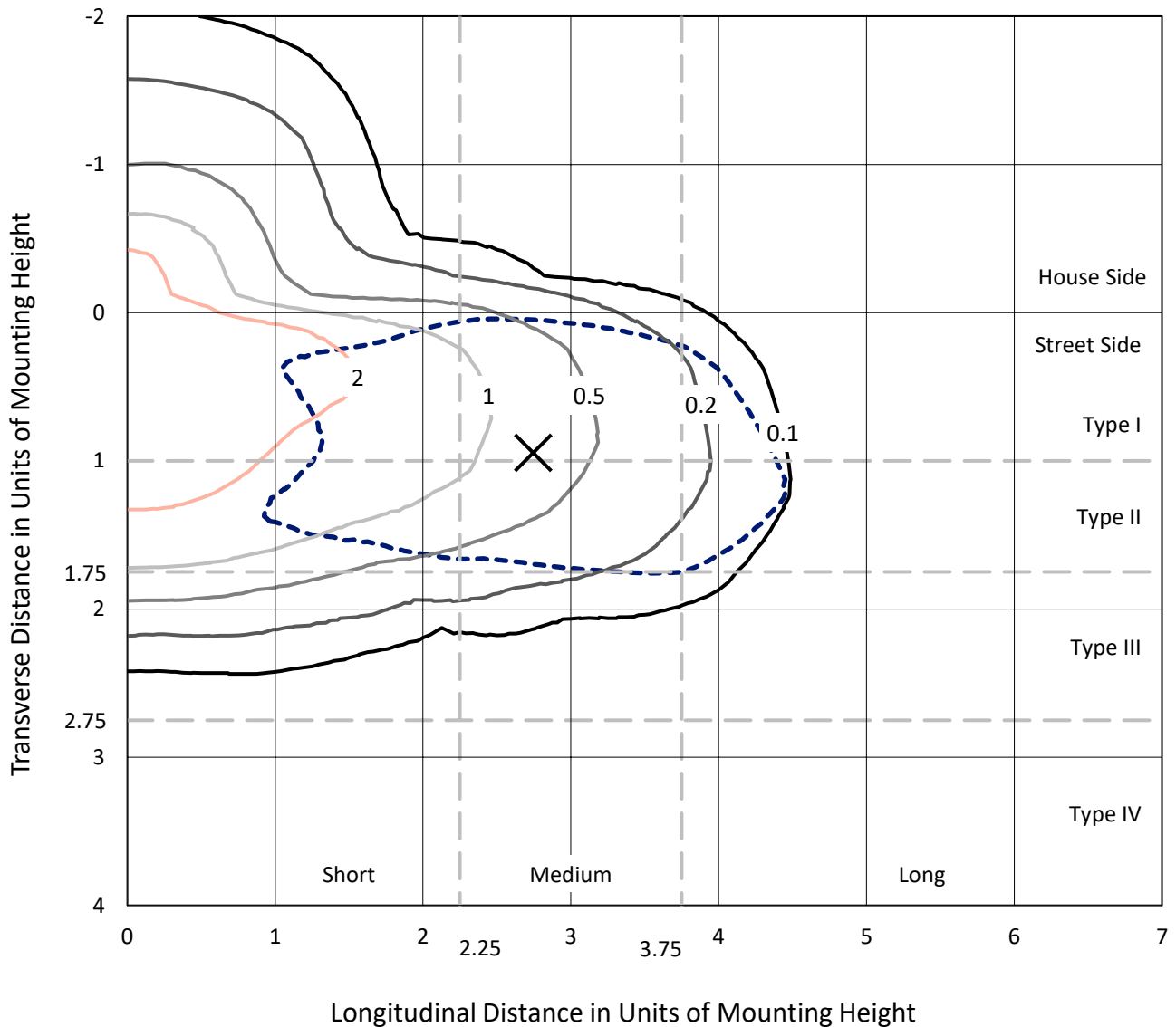
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

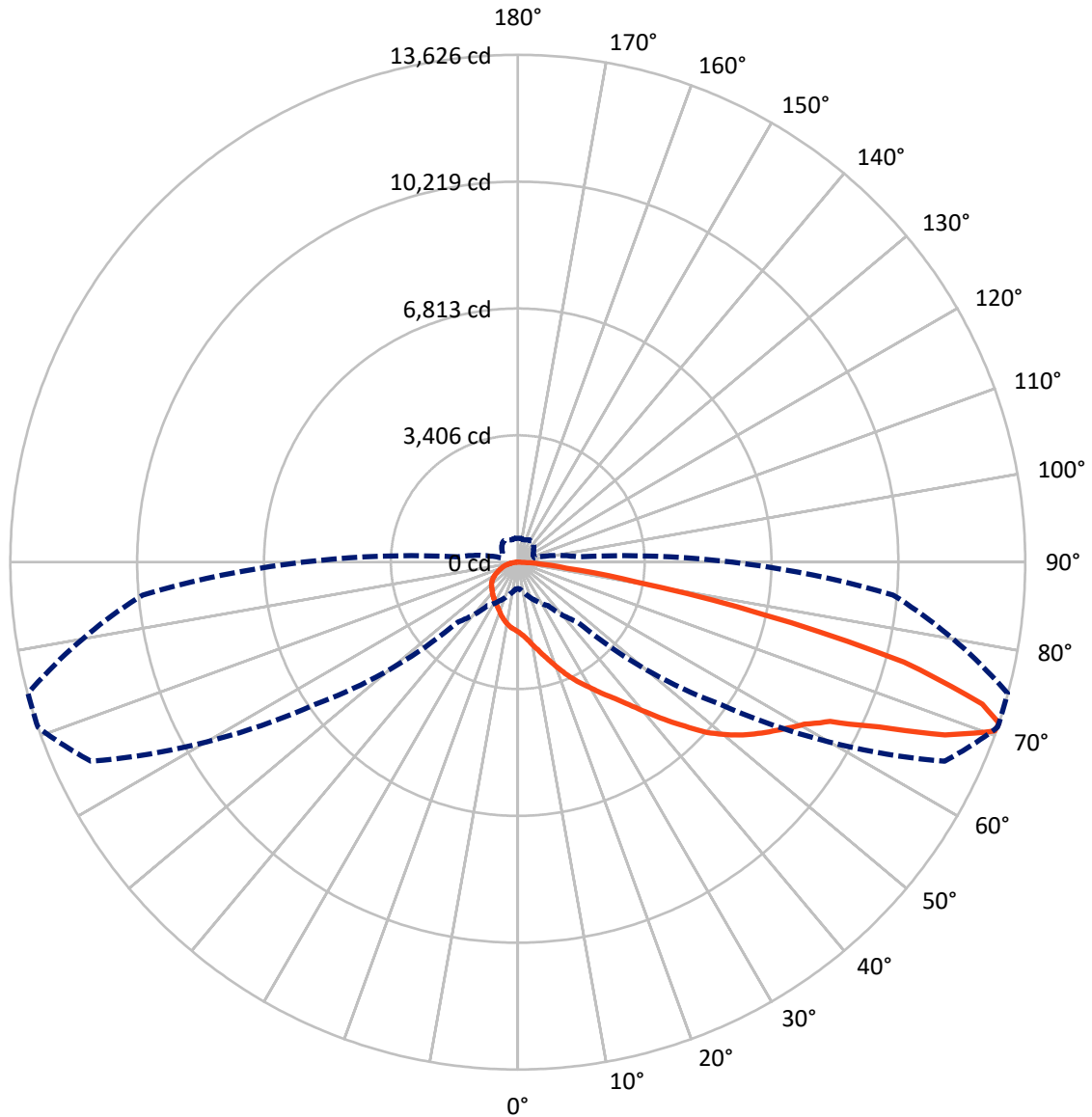
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2736.6	0.0	2736.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	12479.4	0.0	12479.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	15216.0	0.0	15216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	1.2
10°-20°	609.2	4.0
20°-30°	1064.6	7.0
30°-40°	1583.5	10.4
40°-50°	2333.1	15.3
50°-60°	3266.3	21.5
60°-70°	3653.2	24.0
70°-80°	2231.5	14.7
80°-90°	287.1	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°	15216.0	100.0
0°-180°	15216.0	100.0

Coefficient of Utilization



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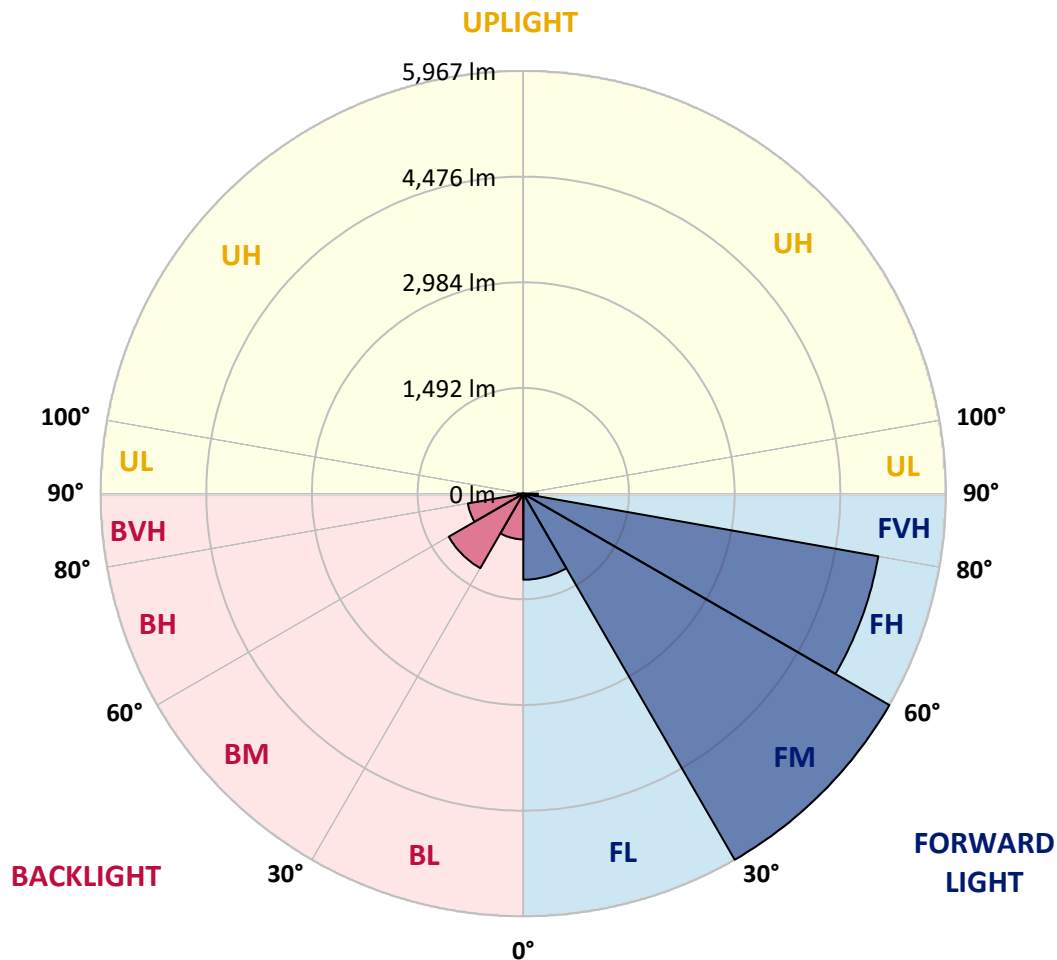
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.8	8.0			
FM	(30°-60°)	5967.4	39.2			
FH	(60°-80°)	5089.7	33.4			G3/7500
FVH	(80°-90°)	206.6	1.4			G2/225
BL	(0°-30°)	645.5	4.2	B2/1000		
BM	(30°-60°)	1215.4	8.0	B2/2500		
BH	(60°-80°)	795.1	5.2	B2/1000		G2/1000
BVH	(80°-90°)	80.5	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°	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5
2.5°	2073.2	2063.2	2064.0	2049.8	2031.4	2011.3	1982.9	1957.8	1937.7	1926.0	1891.7
5°	2297.3	2287.3	2274.7	2243.8	2230.4	2181.1	2118.4	2061.5	2018.0	1993.7	1925.2
7.5°	2478.8	2476.3	2472.9	2455.4	2421.1	2352.5	2299.0	2200.3	2135.9	2089.9	1972.8
10°	2590.9	2595.0	2597.6	2600.9	2586.7	2550.7	2477.1	2352.5	2270.6	2212.0	2034.7
12.5°	2647.7	2651.9	2666.1	2697.1	2716.3	2712.1	2651.9	2529.8	2416.9	2340.0	2100.8
15°	2682.9	2689.5	2714.6	2755.6	2820.0	2861.0	2831.7	2718.8	2595.0	2503.9	2179.4
17.5°	2721.3	2728.9	2756.5	2815.0	2899.5	2988.1	3019.9	2922.9	2788.2	2679.5	2267.2
20°	2743.1	2753.1	2792.4	2869.4	2968.0	3096.8	3202.2	3151.2	3004.0	2883.6	2368.4
22.5°	2778.2	2786.6	2820.0	2902.0	3019.9	3181.3	3384.5	3373.6	3244.0	3088.5	2479.6
25°	2873.5	2886.9	2903.6	2953.0	3066.7	3267.4	3535.9	3611.2	3476.5	3302.6	2581.7
27.5°	3053.3	3064.2	3063.4	3070.1	3134.5	3341.9	3667.2	3846.2	3707.3	3519.2	2680.4
30°	3258.2	3262.4	3265.8	3250.7	3264.9	3418.0	3787.6	4078.6	3939.8	3741.6	2766.5
32.5°	3507.5	3515.8	3487.4	3448.9	3437.2	3530.9	3887.1	4311.1	4215.0	3967.4	2851.8
35°	3801.8	3823.6	3765.9	3698.1	3650.5	3693.1	4020.9	4548.7	4496.8	4255.9	2964.7
37.5°	4138.0	4164.8	4111.3	3978.3	3910.6	3922.3	4195.7	4842.2	4853.1	4584.6	3132.8
40°	4413.2	4448.3	4450.0	4261.8	4158.9	4172.3	4417.4	5158.3	5282.9	4991.1	3331.0
42.5°	4594.6	4628.9	4664.9	4554.5	4446.6	4522.7	4675.8	5501.2	5766.3	5484.5	3607.8
45°	4793.7	4824.6	4844.7	4794.5	4734.3	4931.7	4987.7	5865.8	6281.5	6035.6	3910.6
47.5°	5024.5	5058.8	5078.0	5030.4	5007.8	5290.5	5323.9	6206.2	6831.8	6570.8	4245.1
50°	5332.3	5358.2	5348.2	5318.0	5313.0	5565.6	5646.7	6524.8	7285.9	7147.0	4592.1
52.5°	5715.3	5746.2	5757.1	5714.5	5695.2	5762.1	5906.8	6815.0	7699.0	7642.1	4962.6
55°	5946.9	5996.3	6161.9	6228.8	6274.8	6016.4	6187.0	7135.3	8069.5	8164.0	5360.7
57.5°	5650.1	5713.6	6084.1	6418.6	6851.0	6652.0	6584.2	7469.9	8440.0	8669.9	5837.4
60°	4925.8	4940.0	5417.6	6033.9	6903.7	7469.0	7413.0	8001.7	8841.4	9180.1	6465.5
62.5°	3417.1	3447.2	4011.7	4995.2	6253.0	7763.4	8823.0	8920.0	9416.8	9943.6	7386.2
65°	1762.1	1722.8	2237.1	3139.5	4714.2	7064.2	9965.4	10608.5	10664.5	11137.9	8682.5
67.5°	1084.7	1102.2	1343.1	1833.2	2787.4	5134.1	9845.8	12671.7	12376.4	12603.9	9885.9
70°	814.6	836.3	1001.9	1254.5	1699.4	2935.4	7918.1	13171.8	13584.1	13525.5	10252.2
71°	708.3	730.9	903.2	1141.6	1427.6	2265.5	6671.2	12648.2	13625.9	13615.8	10114.2
72.5°	603.8	618.0	752.7	966.8	1203.4	1588.1	5012.0	11343.6	13044.6	13378.3	9621.7
75°	474.2	485.1	545.3	737.6	947.5	975.1	2689.5	8504.4	10713.9	11349.5	8010.1
77.5°	386.4	393.9	424.8	547.8	730.9	690.8	1410.8	5535.5	6712.2	7351.9	4718.4
80°	306.9	315.3	333.7	371.3	547.8	492.6	673.2	2805.0	3242.3	3235.7	1883.4
82.5°	238.3	240.9	262.6	272.6	374.7	349.6	364.6	1187.5	1315.5	1359.0	679.9
85°	150.5	158.1	232.5	209.1	224.1	204.9	179.8	471.7	581.2	572.9	271.8
87.5°	46.0	48.5	78.6	88.6	99.5	89.5	66.1	138.8	169.8	184.0	67.7
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°	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5	1867.5
2.5°	1878.3	1869.1	1836.5	1809.8	1784.7	1757.1	1733.7	1727.0	1721.1	1718.6	1717.8
5°	1895.9	1868.3	1803.9	1751.2	1709.4	1670.9	1646.7	1635.8	1624.9	1624.9	1628.3
7.5°	1921.0	1870.8	1771.3	1692.7	1640.0	1604.0	1586.5	1584.8	1587.3	1589.8	1590.6
10°	1948.6	1869.1	1723.6	1625.8	1578.9	1562.2	1563.0	1577.3	1590.6	1600.7	1602.4
12.5°	1975.3	1859.1	1667.6	1563.0	1532.9	1536.3	1559.7	1591.5	1617.4	1631.6	1632.5
15°	2005.5	1843.2	1599.8	1503.7	1493.6	1519.6	1563.0	1611.6	1650.9	1674.3	1676.8
17.5°	2030.5	1816.4	1528.8	1446.0	1458.5	1506.2	1566.4	1629.1	1676.8	1706.1	1711.1
20°	2059.0	1782.2	1455.2	1390.8	1426.7	1491.1	1559.7	1627.4	1676.8	1705.2	1711.9
22.5°	2081.6	1733.7	1384.9	1345.6	1398.3	1472.7	1537.1	1591.5	1631.6	1646.7	1656.7
25°	2090.8	1672.6	1318.8	1308.8	1375.7	1442.6	1486.1	1517.1	1529.6	1527.9	1532.1
27.5°	2085.7	1602.4	1262.0	1279.5	1347.3	1395.8	1417.5	1415.0	1392.4	1371.5	1381.6
30°	2064.8	1518.7	1214.3	1249.4	1310.5	1337.2	1333.9	1301.3	1258.6	1219.3	1221.8
32.5°	2027.2	1428.4	1170.0	1215.1	1258.6	1270.3	1247.8	1205.1	1144.1	1093.0	1085.5
35°	1995.4	1342.3	1130.7	1175.8	1206.8	1200.9	1179.2	1124.0	1068.8	1023.6	1016.1
37.5°	1990.4	1268.7	1093.0	1131.5	1149.1	1140.7	1114.0	1067.1	1047.1	1012.8	1008.6
40°	2017.2	1216.8	1054.6	1084.7	1093.0	1086.4	1057.1	1030.3	1048.7	1040.4	1040.4
42.5°	2089.9	1189.2	1020.3	1037.9	1044.5	1049.6	1028.7	1006.1	1028.7	990.2	977.6
45°	2205.3	1190.1	989.3	991.9	1011.9	1029.5	1015.3	981.8	970.1	893.2	878.1
47.5°	2375.1	1218.5	964.3	948.4	984.3	1013.6	993.5	945.0	893.2	842.2	833.0
50°	2573.3	1269.5	941.7	903.2	947.5	993.5	978.5	921.6	868.1	837.1	831.3
52.5°	2793.3	1333.9	914.1	853.0	902.4	984.3	981.8	918.3	844.7	823.8	818.7
55°	3065.0	1397.5	879.8	794.5	862.2	976.8	972.6	890.7	839.6	824.6	822.9
57.5°	3381.2	1489.5	830.4	735.1	816.2	945.9	936.7	873.9	822.9	812.0	811.2
60°	3890.5	1632.5	760.2	680.8	769.4	891.5	903.2	845.5	796.2	793.7	792.8
62.5°	4560.4	1833.2	687.4	624.7	715.0	821.2	854.7	807.0	767.7	780.3	781.9
65°	5485.3	2002.1	612.2	577.0	654.8	753.5	808.7	771.1	735.9	760.2	760.2
67.5°	6088.3	2005.5	543.6	527.7	593.8	696.6	760.2	728.4	695.0	735.9	737.6
70°	5962.8	1757.1	486.7	475.9	534.4	635.6	706.7	681.6	643.1	679.9	666.5
71°	5760.5	1619.1	464.1	455.8	511.0	606.3	681.6	660.7	622.2	646.5	638.9
72.5°	5437.6	1405.8	427.4	429.0	475.9	569.5	646.5	624.7	586.2	599.6	597.1
75°	4596.3	1227.7	365.5	373.0	409.0	506.8	576.2	559.5	520.2	520.2	517.7
77.5°	2873.5	858.0	303.6	307.8	347.1	434.0	495.1	480.9	443.2	430.7	427.4
80°	1072.1	443.2	237.5	242.5	266.8	342.0	409.8	396.4	357.9	343.7	330.3
82.5°	405.6	222.5	174.8	170.6	196.5	260.9	321.1	305.3	275.1	240.9	230.8
85°	153.0	110.4	107.0	103.7	115.4	154.7	199.0	195.7	163.9	139.7	137.2
87.5°	40.1	36.0	41.8	30.9	32.6	29.3	30.1	12.5	5.9	2.5	1.7
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)