

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: P453021

Luminaire Tested: **GALN-SA4A-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453021
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-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16570 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

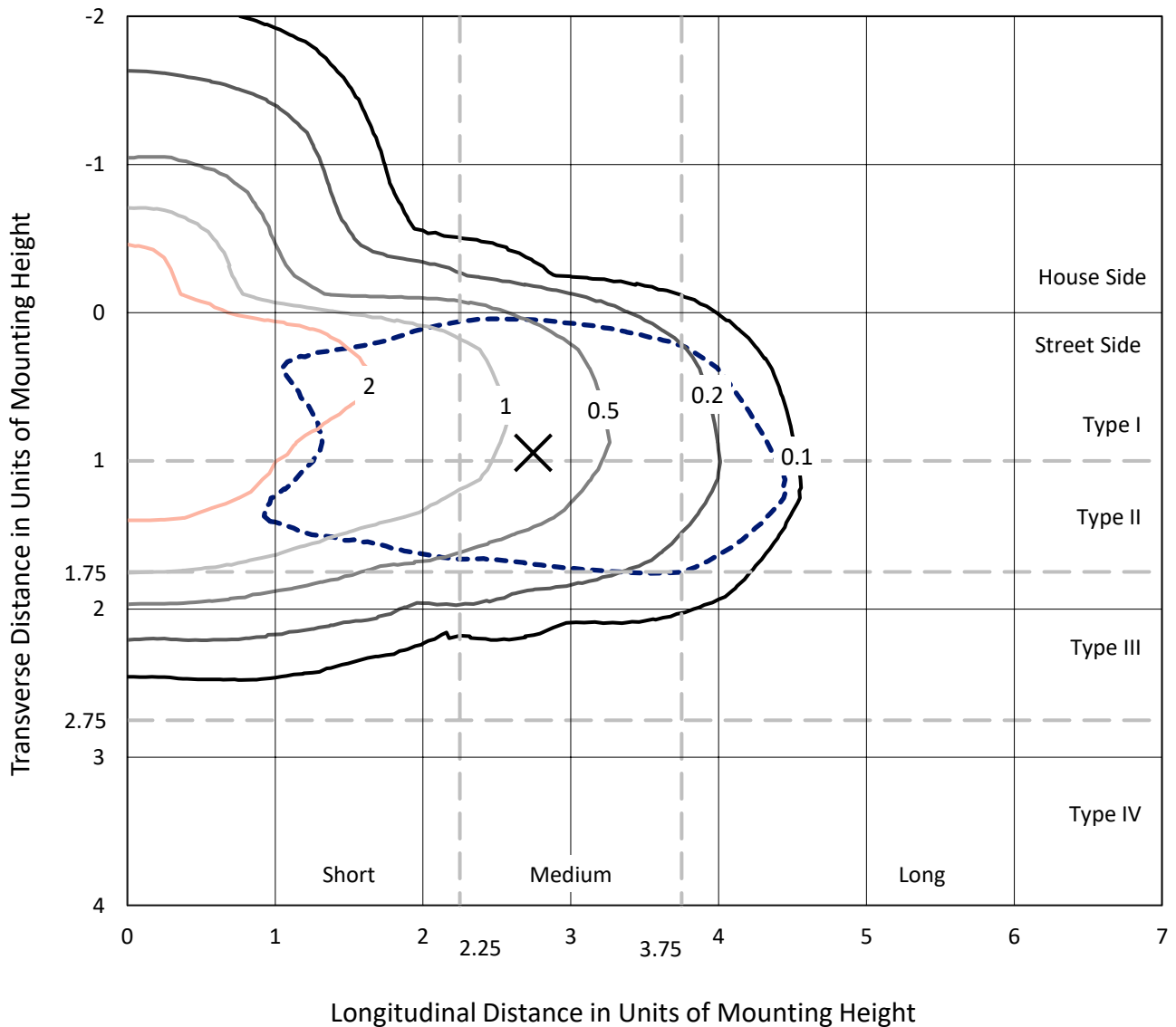
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

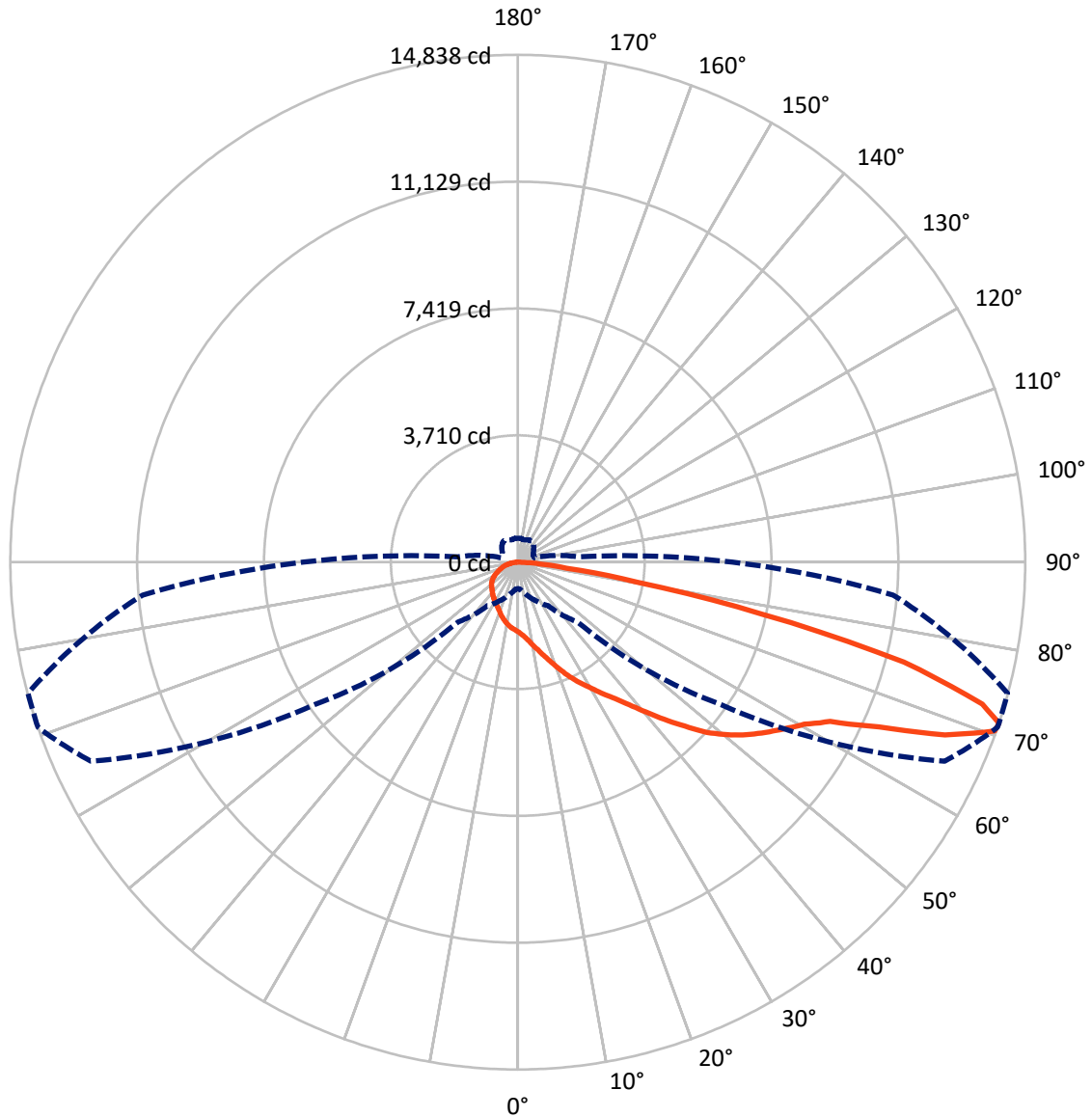
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2980.1	0.0	2980.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	13589.9	0.0	13589.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	16570.0	0.0	16570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	1.2
10°-20°	663.4	4.0
20°-30°	1159.3	7.0
30°-40°	1724.4	10.4
40°-50°	2540.7	15.3
50°-60°	3557.0	21.5
60°-70°	3978.3	24.0
70°-80°	2430.1	14.7
80°-90°	312.6	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°	16570.0	100.0
0°-180°	16570.0	100.0

Coefficient of Utilization



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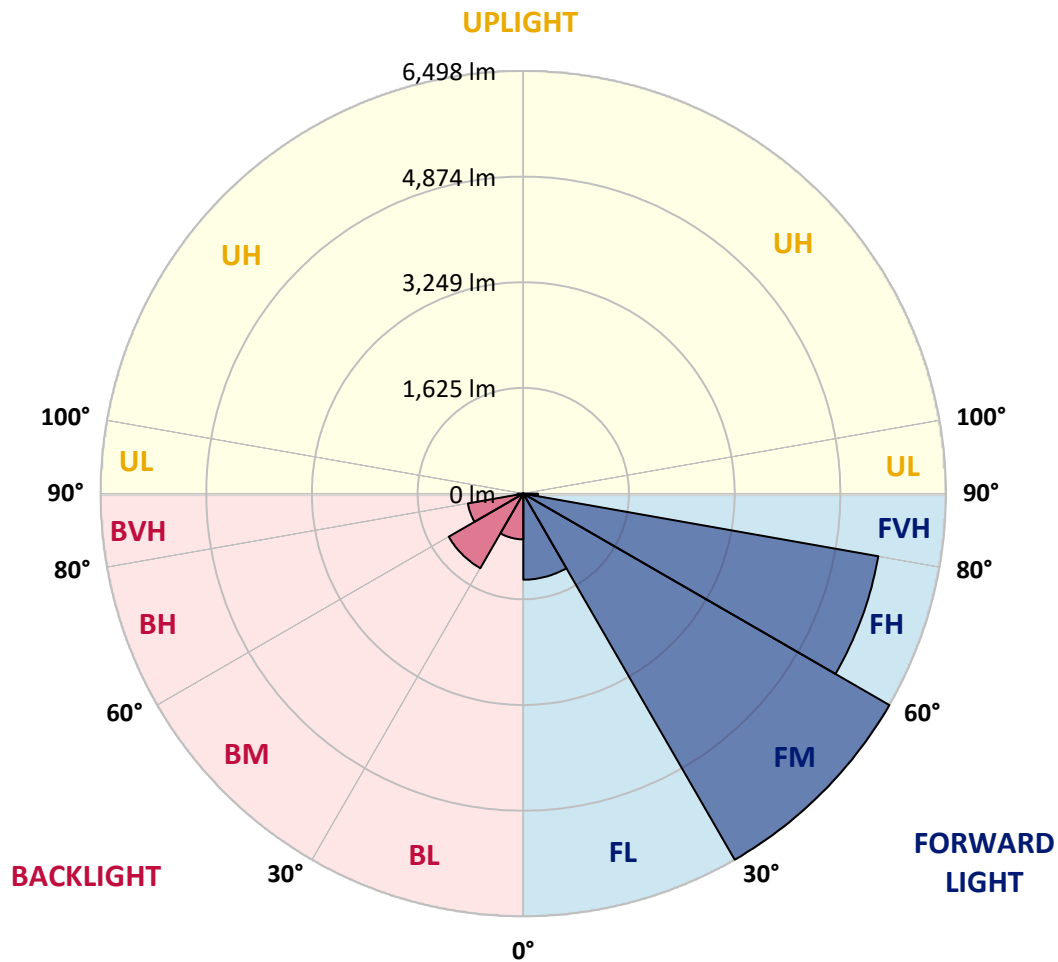
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.0	8.0			
FM (30°-60°)	6498.4	39.2			
FH (60°-80°)	5542.6	33.4			G3/7500
FVH (80°-90°)	224.9	1.4			G2/225
BL (0°-30°)	703.0	4.2	B2/1000		
BM (30°-60°)	1323.6	8.0	B2/2500		
BH (60°-80°)	865.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	87.7	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°	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6
2.5°	2257.7	2246.7	2247.7	2232.2	2212.1	2190.3	2159.3	2132.0	2110.1	2097.4	2060.1
5°	2501.8	2490.8	2477.2	2443.5	2428.9	2375.2	2306.9	2244.9	2197.6	2171.2	2096.5
7.5°	2699.4	2696.6	2693.0	2673.9	2636.5	2561.9	2503.6	2396.1	2326.0	2275.9	2148.4
10°	2821.4	2826.0	2828.7	2832.3	2816.9	2777.7	2697.6	2561.9	2472.6	2408.9	2215.8
12.5°	2883.3	2887.9	2903.4	2937.1	2958.0	2953.5	2887.9	2754.9	2632.0	2548.2	2287.7
15°	2921.6	2928.9	2956.2	3000.8	3071.0	3115.6	3083.7	2960.8	2826.0	2726.7	2373.3
17.5°	2963.5	2971.7	3001.7	3065.5	3157.5	3254.0	3288.6	3183.0	3036.3	2918.0	2469.0
20°	2987.2	2998.1	3040.9	3124.7	3232.1	3372.4	3487.2	3431.6	3271.3	3140.2	2579.2
22.5°	3025.4	3034.5	3071.0	3160.2	3288.6	3464.4	3685.7	3673.8	3532.7	3363.3	2700.3
25°	3129.2	3143.8	3162.0	3215.8	3339.6	3558.2	3850.5	3932.5	3785.9	3596.4	2811.4
27.5°	3325.0	3336.9	3336.0	3343.3	3413.4	3639.2	3993.5	4188.4	4037.2	3832.3	2918.9
30°	3548.2	3552.7	3556.4	3540.0	3555.5	3722.1	4124.7	4441.6	4290.4	4074.6	3012.7
32.5°	3819.6	3828.7	3797.7	3755.8	3743.1	3845.1	4233.0	4694.8	4590.0	4320.5	3105.6
35°	4140.1	4163.8	4101.0	4027.2	3975.3	4021.7	4378.7	4953.4	4896.9	4634.7	3228.5
37.5°	4506.2	4535.4	4477.1	4332.3	4258.5	4271.3	4569.1	5273.1	5284.9	4992.6	3411.6
40°	4805.9	4844.1	4845.9	4641.0	4529.0	4543.6	4810.4	5617.3	5753.0	5435.2	3627.4
42.5°	5003.5	5040.8	5080.0	4959.8	4842.3	4925.2	5091.8	5990.7	6279.4	5972.5	3928.9
45°	5220.3	5254.0	5275.8	5221.2	5155.6	5370.5	5431.5	6387.8	6840.4	6572.7	4258.5
47.5°	5471.6	5509.0	5529.9	5478.0	5453.4	5761.2	5797.7	6758.5	7439.7	7155.5	4622.8
50°	5806.8	5835.0	5824.1	5791.3	5785.8	6060.9	6149.2	7105.4	7934.2	7783.0	5000.8
52.5°	6223.9	6257.6	6269.4	6223.0	6202.0	6274.9	6432.4	7421.5	8384.1	8322.2	5404.2
55°	6476.1	6529.9	6710.2	6783.1	6833.1	6551.7	6737.5	7770.3	8787.5	8890.5	5837.7
57.5°	6152.8	6222.0	6625.5	6989.8	7460.6	7243.9	7170.1	8134.6	9191.0	9441.4	6356.8
60°	5364.1	5379.6	5899.7	6570.9	7518.0	8133.7	8072.6	8713.8	9628.1	9997.0	7040.8
62.5°	3721.2	3754.0	4368.7	5439.7	6809.5	8454.2	9608.1	9713.8	10254.7	10828.5	8043.5
65°	1918.9	1876.1	2436.2	3418.8	5133.7	7692.9	10852.2	11552.5	11613.5	12129.0	9455.1
67.5°	1181.2	1200.3	1462.6	1996.3	3035.4	5590.9	10721.9	13799.2	13477.8	13725.5	10765.6
70°	887.0	910.7	1091.0	1366.1	1850.6	3196.6	8622.7	14343.9	14792.8	14729.1	11164.5
71°	771.4	796.0	983.6	1243.1	1554.6	2467.1	7264.8	13773.7	14838.4	14827.5	11014.3
72.5°	657.5	673.0	819.6	1052.8	1310.5	1729.5	5458.0	12353.0	14205.4	14568.8	10477.8
75°	516.4	528.2	593.8	803.3	1031.8	1061.9	2928.9	9261.1	11667.3	12359.4	8722.9
77.5°	420.8	428.9	462.6	596.5	796.0	752.3	1536.4	6028.1	7309.4	8006.2	5138.3
80°	334.2	343.3	363.4	404.4	596.5	536.4	733.1	3054.6	3530.9	3523.6	2050.9
82.5°	259.6	262.3	286.0	296.9	408.0	380.7	397.1	1293.2	1432.6	1479.9	740.4
85°	163.9	172.1	253.2	227.7	244.1	223.1	195.8	513.6	633.0	623.8	296.0
87.5°	50.1	52.8	85.6	96.5	108.4	97.4	71.9	151.2	184.9	200.4	73.8
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°	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6	2033.6
2.5°	2045.5	2035.5	1999.9	1970.8	1943.5	1913.4	1887.9	1880.6	1874.3	1871.5	1870.6
5°	2064.6	2034.6	1964.4	1907.1	1861.5	1819.6	1793.2	1781.4	1769.5	1769.5	1773.2
7.5°	2091.9	2037.3	1928.9	1843.3	1785.9	1746.8	1727.6	1725.8	1728.5	1731.3	1732.2
10°	2122.0	2035.5	1877.0	1770.4	1719.4	1701.2	1702.1	1717.6	1732.2	1743.1	1744.9
12.5°	2151.1	2024.5	1816.0	1702.1	1669.4	1673.0	1698.5	1733.1	1761.3	1776.8	1777.7
15°	2183.9	2007.2	1742.2	1637.5	1626.5	1654.8	1702.1	1755.0	1797.8	1823.3	1826.0
17.5°	2211.2	1978.1	1664.8	1574.6	1588.3	1640.2	1705.8	1774.1	1826.0	1857.9	1863.3
20°	2242.2	1940.7	1584.7	1514.5	1553.7	1623.8	1698.5	1772.3	1826.0	1857.0	1864.2
22.5°	2266.8	1887.9	1508.2	1465.4	1522.7	1603.8	1673.9	1733.1	1776.8	1793.2	1804.1
25°	2276.8	1821.4	1436.2	1425.3	1498.1	1571.0	1618.4	1652.0	1665.7	1663.9	1668.4
27.5°	2271.3	1744.9	1374.3	1393.4	1467.2	1520.0	1543.7	1540.9	1516.4	1493.6	1504.5
30°	2248.6	1653.9	1322.4	1360.6	1427.1	1456.2	1452.6	1417.1	1370.6	1327.8	1330.6
32.5°	2207.6	1555.5	1274.1	1323.3	1370.6	1383.4	1358.8	1312.3	1245.9	1190.3	1182.1
35°	2173.0	1461.7	1231.3	1280.5	1314.2	1307.8	1284.1	1224.0	1163.9	1114.7	1106.5
37.5°	2167.5	1381.6	1190.3	1232.2	1251.3	1242.2	1213.1	1162.1	1140.2	1102.9	1098.3
40°	2196.7	1325.1	1148.4	1181.2	1190.3	1183.0	1151.2	1122.0	1142.0	1132.9	1132.9
42.5°	2275.9	1295.0	1111.1	1130.2	1137.5	1143.0	1120.2	1095.6	1120.2	1078.3	1064.6
45°	2401.6	1296.0	1077.4	1080.1	1102.0	1121.1	1105.6	1069.2	1056.4	972.7	956.3
47.5°	2586.4	1326.9	1050.1	1032.8	1071.9	1103.8	1081.9	1029.1	972.7	917.1	907.1
50°	2802.3	1382.5	1025.5	983.6	1031.8	1081.9	1065.5	1003.6	945.3	911.6	905.3
52.5°	3041.8	1452.6	995.4	928.9	982.7	1071.9	1069.2	1000.0	919.8	897.1	891.6
55°	3337.8	1521.8	958.1	865.2	939.0	1063.7	1059.2	969.9	914.4	898.0	896.1
57.5°	3682.0	1622.0	904.3	800.5	888.9	1030.0	1020.0	951.7	896.1	884.3	883.4
60°	4236.7	1777.7	827.8	741.3	837.9	970.8	983.6	920.7	867.0	864.3	863.4
62.5°	4966.2	1996.3	748.6	680.3	778.7	894.3	930.8	878.8	836.0	849.7	851.5
65°	5973.4	2180.3	666.6	628.4	713.1	820.6	880.7	839.7	801.4	827.8	827.8
67.5°	6630.1	2183.9	592.0	574.7	646.6	758.6	827.8	793.2	756.8	801.4	803.3
70°	6493.4	1913.4	530.0	518.2	582.0	692.1	769.6	742.2	700.3	740.4	725.8
71°	6273.0	1763.2	505.5	496.3	556.5	660.3	742.2	719.5	677.6	704.0	695.8
72.5°	5921.5	1530.9	465.4	467.2	518.2	620.2	704.0	680.3	638.4	653.0	650.3
75°	5005.3	1336.9	398.0	406.2	445.3	551.9	627.5	609.3	566.5	566.5	563.7
77.5°	3129.2	934.4	330.6	335.1	377.9	472.7	539.1	523.7	482.7	469.0	465.4
80°	1167.5	482.7	258.6	264.1	290.5	372.5	446.3	431.7	389.8	374.3	359.7
82.5°	441.7	242.3	190.3	185.8	214.0	284.1	349.7	332.4	299.6	262.3	251.4
85°	166.7	120.2	116.6	112.9	125.7	168.5	216.8	213.1	178.5	152.1	149.4
87.5°	43.7	39.2	45.5	33.7	35.5	31.9	32.8	13.7	6.4	2.7	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)