

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: P451173

Luminaire Tested: **GALN-SA2A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8357 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

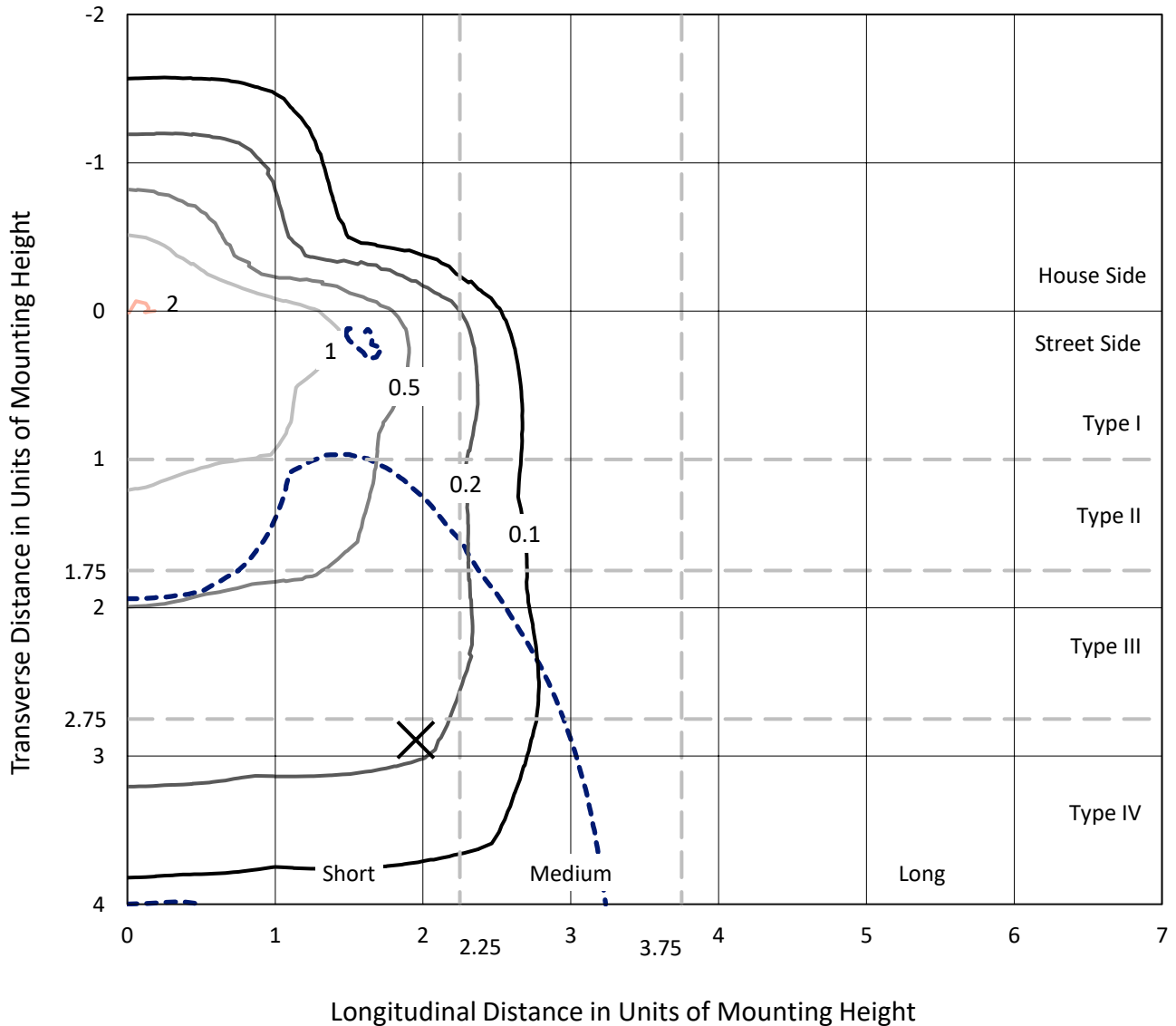
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

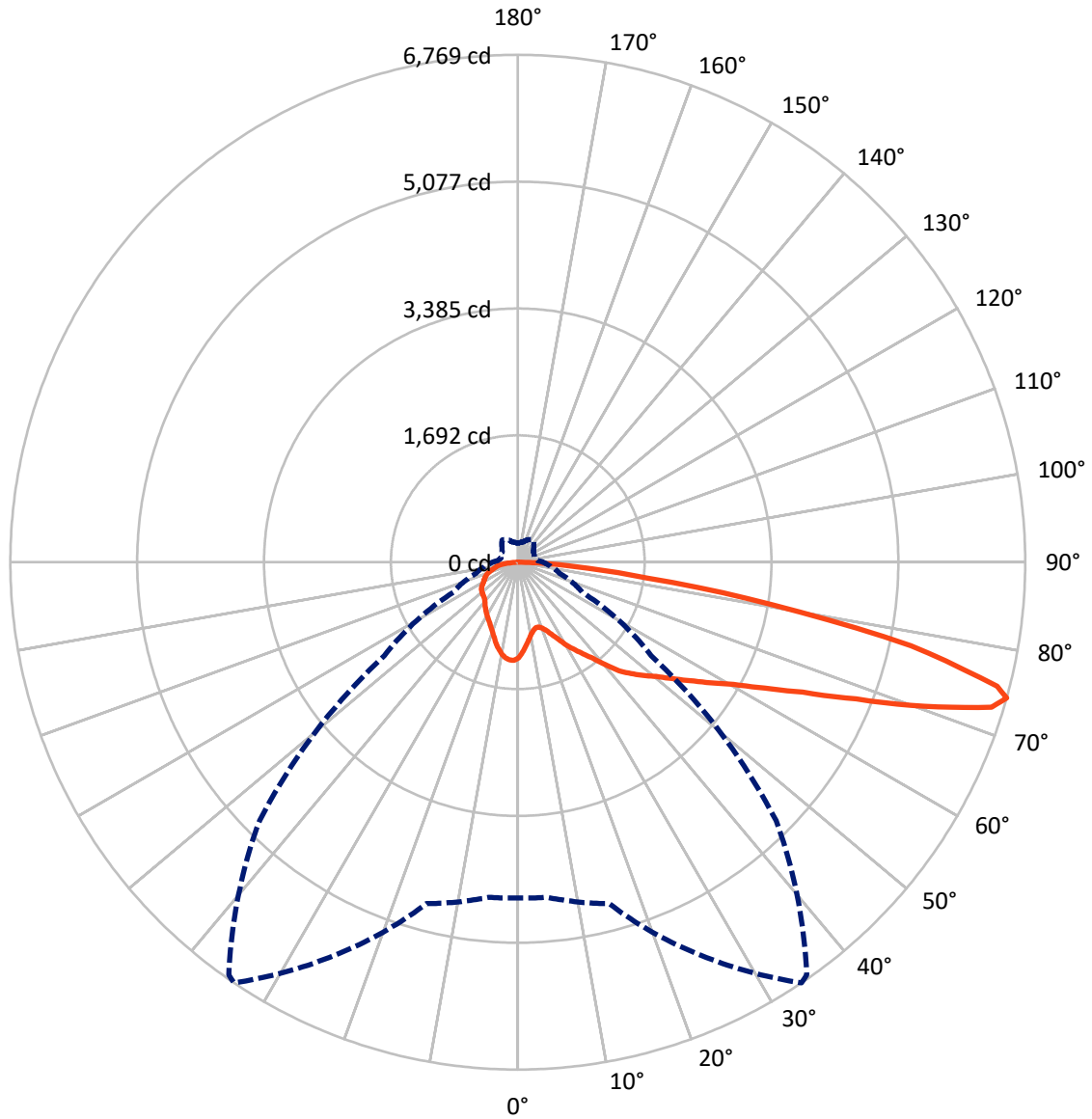
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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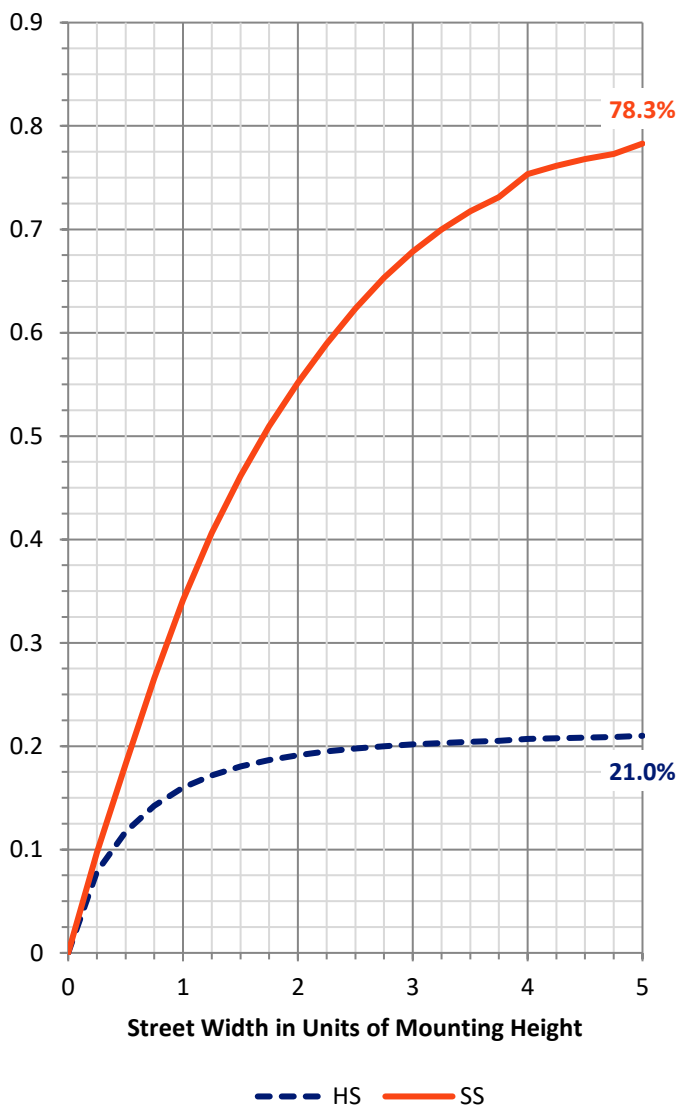
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.4	0.0	1778.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6578.6	0.0	6578.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	8357.0	0.0	8357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.4
10°-20°	317.7	3.8
20°-30°	523.7	6.3
30°-40°	784.5	9.4
40°-50°	1140.5	13.6
50°-60°	1592.9	19.1
60°-70°	1994.3	23.9
70°-80°	1649.1	19.7
80°-90°	238.3	2.9
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°	8357.0	100.0
0°-180°	8357.0	100.0

Coefficient of Utilization



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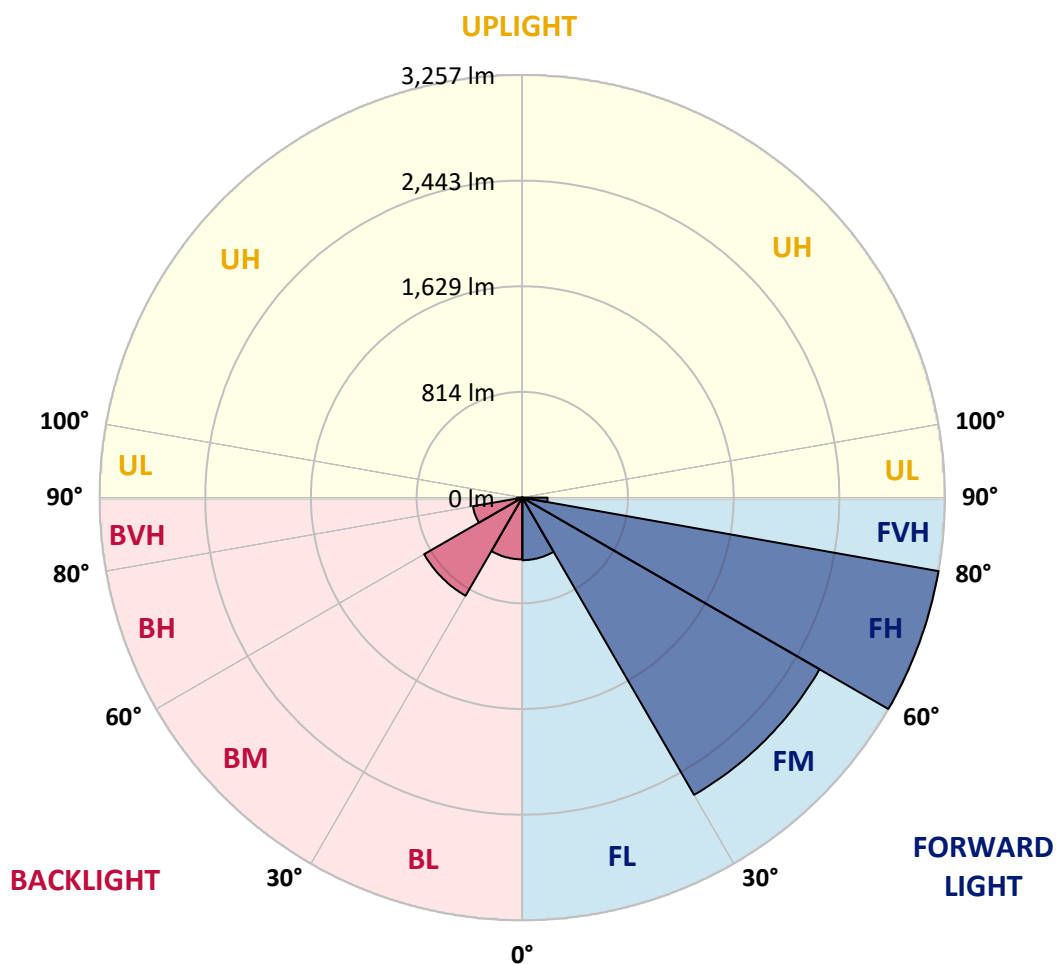
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.7	5.8			
FM (30°-60°)	2644.5	31.6			
FH (60°-80°)	3257.1	39.0			G2/5000
FVH (80°-90°)	195.2	2.3			G2/225
BL (0°-30°)	475.7	5.7	B1/500		
BM (30°-60°)	873.4	10.5	B1/1000		
BH (60°-80°)	386.3	4.6	B1/500		G1/500
BVH (80°-90°)	43.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1179.2	1185.2	1188.4	1200.0	1202.8	1206.5	1216.2	1229.2	1245.9	1260.7	1273.6
5°	1081.0	1090.3	1095.9	1106.0	1125.9	1127.8	1153.7	1183.4	1217.2	1248.6	1274.6
7.5°	988.0	998.2	1002.8	1021.3	1047.7	1051.9	1089.8	1136.6	1193.1	1240.8	1280.6
10°	918.1	923.2	933.3	947.2	978.7	981.5	1031.0	1093.5	1166.7	1237.1	1290.8
12.5°	880.1	882.9	885.2	900.0	931.0	935.2	987.1	1057.9	1145.9	1239.8	1307.4
15°	885.7	886.6	876.4	879.2	904.2	910.2	961.6	1034.3	1132.9	1246.8	1332.4
17.5°	932.4	929.2	904.2	891.2	908.8	911.6	956.5	1025.0	1126.9	1259.7	1358.4
20°	1006.0	1001.4	958.4	929.6	939.8	942.1	973.2	1032.0	1132.9	1281.0	1398.6
22.5°	1097.7	1095.9	1030.6	995.9	995.4	995.4	1011.6	1057.0	1150.9	1310.2	1440.8
25°	1225.9	1216.2	1131.0	1086.1	1073.6	1072.7	1070.9	1098.2	1174.1	1341.2	1490.8
27.5°	1357.4	1340.8	1264.8	1195.9	1169.0	1165.8	1153.7	1156.5	1203.7	1376.4	1547.7
30°	1475.5	1464.8	1393.5	1317.2	1285.2	1277.8	1244.5	1229.2	1253.3	1439.8	1638.5
32.5°	1565.8	1559.3	1503.7	1434.3	1387.1	1385.7	1337.1	1324.6	1330.6	1516.7	1742.2
35°	1638.9	1641.2	1613.0	1552.8	1498.6	1490.8	1458.4	1442.6	1425.0	1627.8	1872.7
37.5°	1738.9	1744.0	1742.2	1690.3	1624.1	1626.0	1618.5	1592.6	1545.9	1751.9	2017.6
40°	1849.1	1852.8	1852.3	1832.4	1797.7	1799.6	1796.8	1767.2	1697.3	1909.8	2178.7
42.5°	2001.4	1983.8	1938.0	1957.9	1978.3	1987.1	2006.1	1977.8	1882.0	2078.3	2330.1
45°	2171.8	2138.5	2034.8	2044.0	2119.5	2136.1	2240.8	2201.9	2082.4	2271.8	2508.4
47.5°	2279.2	2246.3	2158.8	2157.0	2257.0	2273.2	2458.4	2444.0	2264.9	2480.6	2726.0
50°	2375.0	2370.4	2271.8	2295.4	2393.1	2417.2	2695.4	2682.0	2446.8	2726.9	2963.0
52.5°	2517.2	2479.7	2401.0	2449.6	2578.7	2610.2	2930.6	2891.3	2613.9	2944.5	3193.1
55°	2581.1	2572.3	2567.6	2609.8	2787.1	2809.8	3159.3	3069.0	2756.5	3128.8	3368.1
57.5°	2751.9	2735.7	2781.5	2810.2	3032.5	3067.2	3398.2	3254.7	2881.5	3275.1	3453.3
60°	2973.2	2964.4	3006.5	3058.4	3306.5	3359.3	3670.4	3413.0	2982.0	3348.7	3406.5
62.5°	3303.8	3302.8	3295.0	3406.1	3695.0	3743.6	3982.9	3567.2	2997.7	3293.6	3164.9
65°	3777.8	3761.2	3692.7	3814.0	4178.3	4235.3	4308.4	3653.3	2902.8	3010.7	2664.9
67.5°	4273.7	4272.8	4217.2	4374.6	4872.3	4931.1	4715.4	3634.3	2639.4	2438.9	1892.6
70°	4684.8	4664.9	4735.7	5155.2	5758.9	5827.0	5071.4	3410.7	2102.4	1610.7	1124.6
72.5°	4783.4	4784.3	4931.6	5757.0	6610.3	6621.0	5199.6	2764.4	1407.0	888.4	562.5
74°	4479.7	4487.6	4715.8	5787.1	6769.1	6721.0	4871.8	2172.7	951.4	580.1	405.6
75°	4089.0	4039.4	4369.5	5586.7	6604.3	6552.4	4488.0	1743.5	725.9	463.4	355.1
77.5°	2186.1	2236.6	2745.9	4169.1	5365.4	5305.6	3043.1	836.1	392.1	322.7	255.6
80°	778.3	858.3	1206.5	2181.5	3439.9	3458.4	1452.3	383.3	275.9	238.0	180.6
82.5°	317.6	326.4	518.1	968.1	1746.8	1763.5	593.1	227.8	197.2	163.9	107.9
85°	124.1	127.8	229.2	435.2	745.4	794.0	205.1	120.4	121.3	94.0	55.1
87.5°	41.7	47.2	94.0	144.9	253.2	248.2	59.7	35.6	43.5	40.7	17.1
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°	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9	1275.9
2.5°	1280.1	1288.9	1294.9	1301.4	1307.4	1309.3	1307.9	1312.1	1312.5	1313.0	1313.4
5°	1287.5	1299.6	1311.1	1317.6	1320.4	1318.1	1310.2	1306.0	1302.3	1299.6	1300.5
7.5°	1297.7	1314.8	1325.5	1328.3	1320.9	1310.2	1290.8	1275.5	1265.8	1259.3	1258.8
10°	1313.4	1330.1	1338.9	1331.0	1310.7	1284.7	1254.2	1225.5	1203.7	1197.2	1196.8
12.5°	1333.4	1352.3	1351.9	1328.7	1293.1	1246.8	1197.2	1163.9	1134.3	1119.5	1125.5
15°	1359.3	1373.6	1360.2	1318.5	1262.1	1198.6	1137.5	1092.1	1058.8	1043.1	1044.0
17.5°	1389.4	1401.9	1366.2	1300.5	1218.5	1137.1	1066.2	1023.2	996.8	985.2	984.3
20°	1426.9	1430.6	1366.2	1269.0	1162.5	1065.3	997.7	967.6	952.8	946.8	948.6
22.5°	1467.2	1459.7	1358.8	1224.6	1088.9	990.3	944.9	931.5	924.1	923.2	924.1
25°	1512.5	1491.7	1343.5	1164.4	1012.1	925.5	899.1	901.4	902.8	902.8	906.0
27.5°	1568.1	1526.4	1318.1	1088.4	922.2	865.3	857.9	874.1	881.5	882.9	885.2
30°	1641.2	1564.4	1275.9	993.5	845.8	811.1	824.1	845.8	854.2	859.3	858.3
32.5°	1728.3	1606.0	1219.0	898.6	784.3	773.2	788.9	811.1	820.4	823.2	819.5
35°	1830.6	1653.3	1144.0	809.7	730.6	737.1	755.6	762.5	770.8	770.8	772.7
37.5°	1940.8	1691.2	1052.3	728.3	688.9	712.5	725.9	719.5	715.8	711.1	713.4
40°	2052.8	1719.5	933.3	647.7	647.2	687.0	690.8	672.2	657.4	652.8	650.5
42.5°	2150.5	1737.1	825.9	585.2	607.9	662.0	664.8	635.2	611.6	597.7	593.1
45°	2265.8	1757.4	720.8	533.3	571.3	642.1	649.1	609.3	574.5	545.4	538.0
47.5°	2423.7	1803.7	638.0	493.1	544.9	629.6	639.4	588.0	542.1	504.2	498.2
50°	2601.9	1867.2	573.6	465.7	524.5	618.5	630.6	566.2	512.0	469.9	465.3
52.5°	2765.3	1901.4	518.1	441.2	504.6	598.2	619.0	550.5	482.4	435.7	431.5
55°	2854.7	1845.9	463.4	417.1	477.3	571.8	602.8	528.7	453.7	417.6	411.6
57.5°	2866.7	1731.0	413.9	391.2	448.6	539.4	572.7	502.3	435.2	405.1	400.0
60°	2773.7	1559.7	375.5	369.9	419.5	502.8	538.9	479.2	416.2	391.2	386.1
62.5°	2542.2	1373.6	348.6	350.5	389.8	464.4	513.9	457.0	398.2	375.9	371.3
65°	2144.0	1133.8	322.7	330.6	363.4	434.3	491.2	438.4	380.1	364.4	360.2
67.5°	1489.4	818.5	301.4	309.7	338.4	403.7	464.8	418.5	359.7	351.4	344.9
70°	824.6	503.7	276.4	286.1	312.5	369.5	435.2	388.4	330.1	326.4	317.1
72.5°	433.3	320.8	248.2	258.8	277.3	325.5	389.8	355.6	300.9	285.2	273.2
74°	338.4	263.0	229.2	240.3	252.8	299.5	363.0	332.0	280.1	261.6	252.3
75°	294.9	234.3	213.0	227.3	238.4	281.9	342.1	315.3	268.5	250.9	242.6
77.5°	208.3	175.5	174.1	191.2	197.2	247.2	308.3	287.0	239.4	220.8	213.0
80°	146.3	131.5	138.0	148.6	156.9	218.5	286.1	248.2	196.3	174.5	171.8
82.5°	95.4	86.1	98.6	108.3	111.1	161.1	231.0	188.4	143.1	116.2	107.9
85°	44.0	43.1	56.5	55.1	54.6	78.7	137.0	110.2	82.4	61.6	57.9
87.5°	11.1	10.6	13.9	11.6	13.9	12.0	12.5	3.2	0.5	0.0	0.0
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)