

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: P269142

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-RW-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10633.3 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 96
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: 25 FT

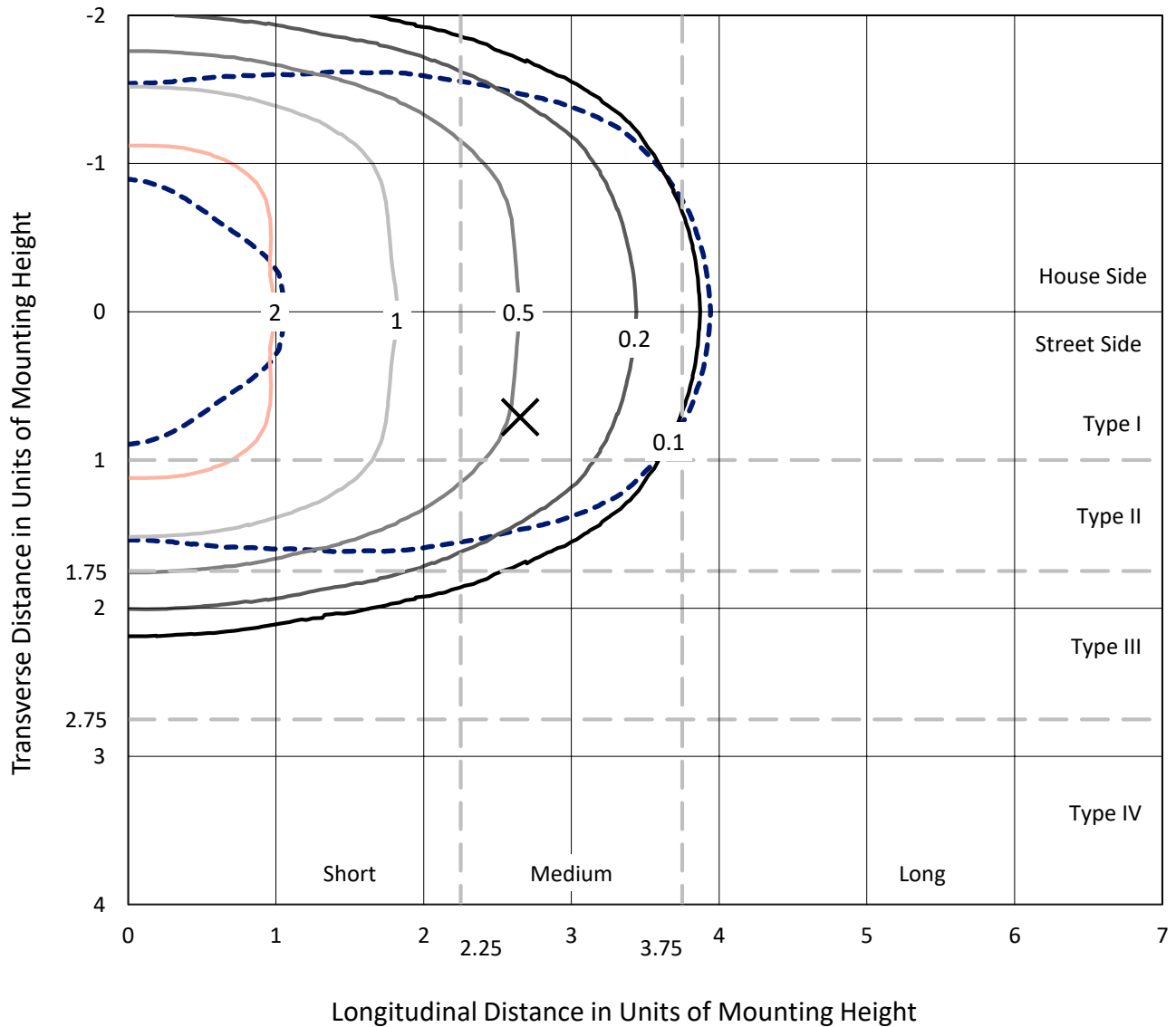


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

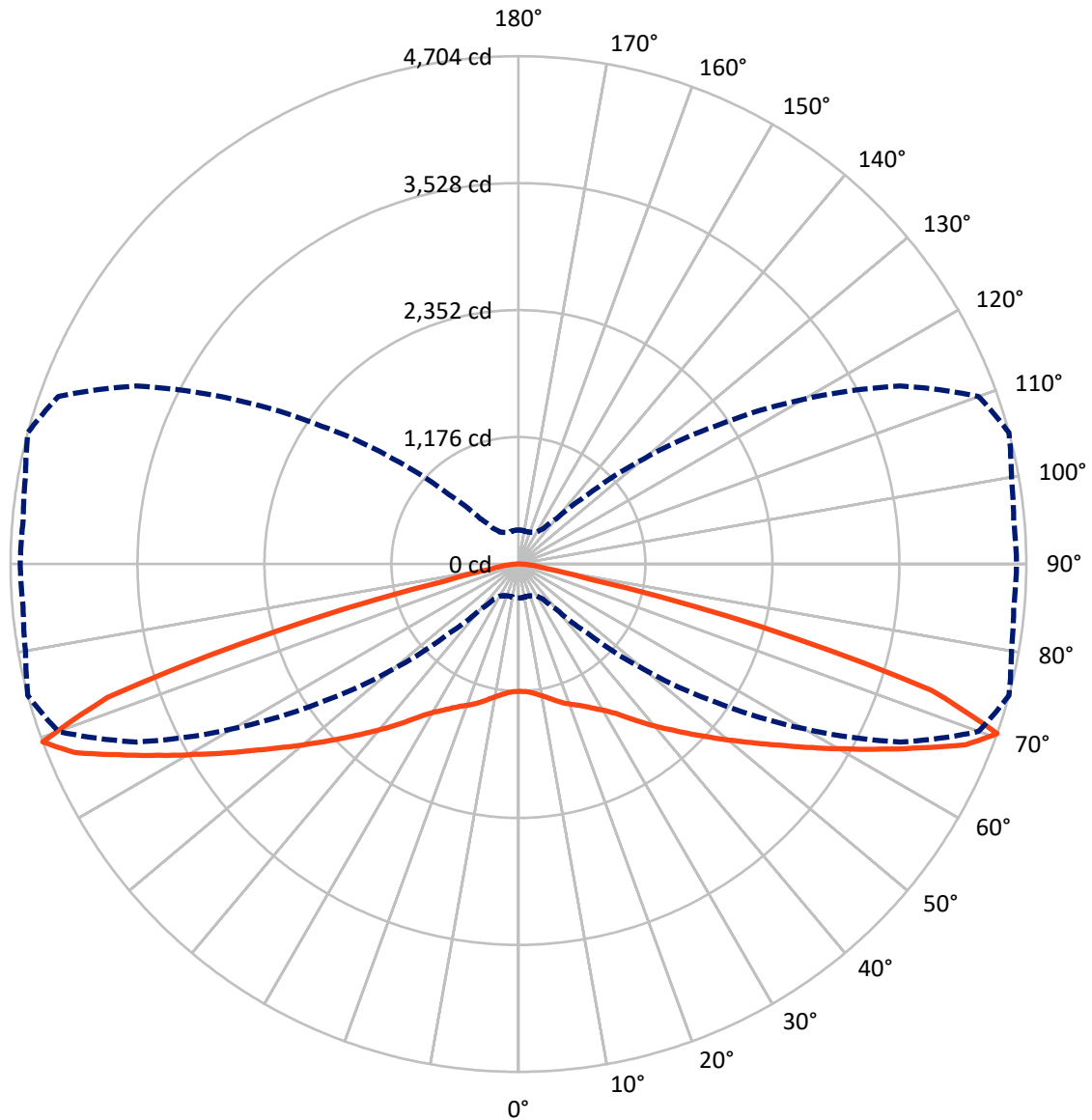


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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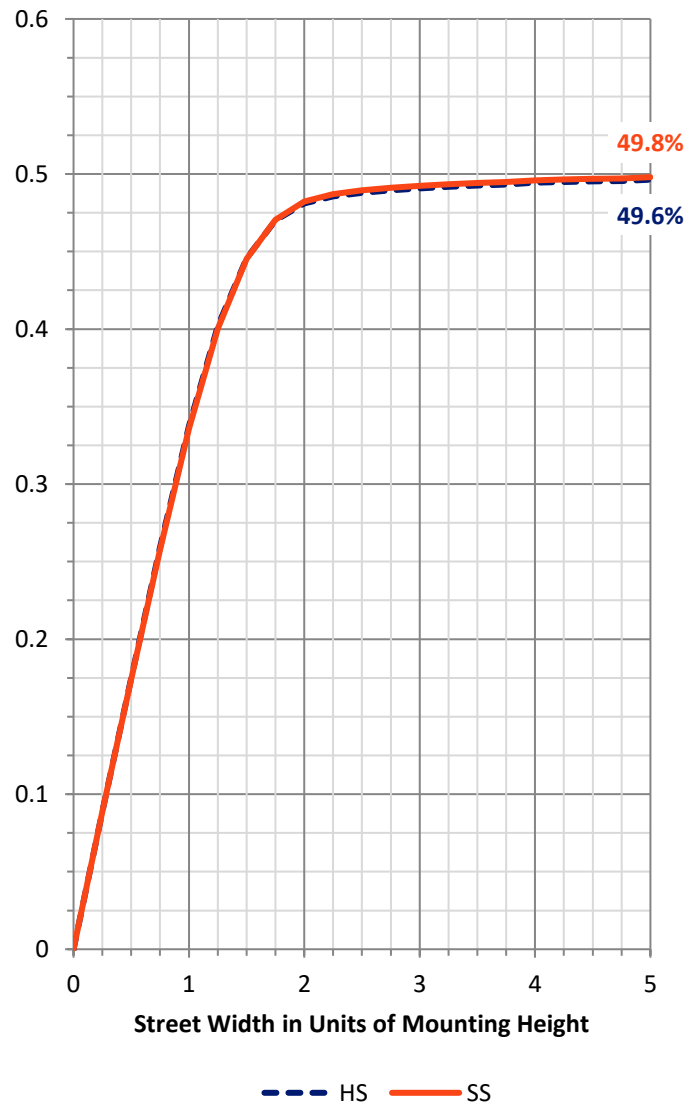
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5316.7	0.0	5316.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5316.7	0.0	5316.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10633.3	0.0	10633.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	1.1
10°-20°	351.5	3.3
20°-30°	661.6	6.2
30°-40°	1171.5	11.0
40°-50°	1959.1	18.4
50°-60°	2730.0	25.7
60°-70°	2531.6	23.8
70°-80°	1008.9	9.5
80°-90°	106.0	1.0
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°	10633.3	100.0
0°-180°	10633.3	100.0



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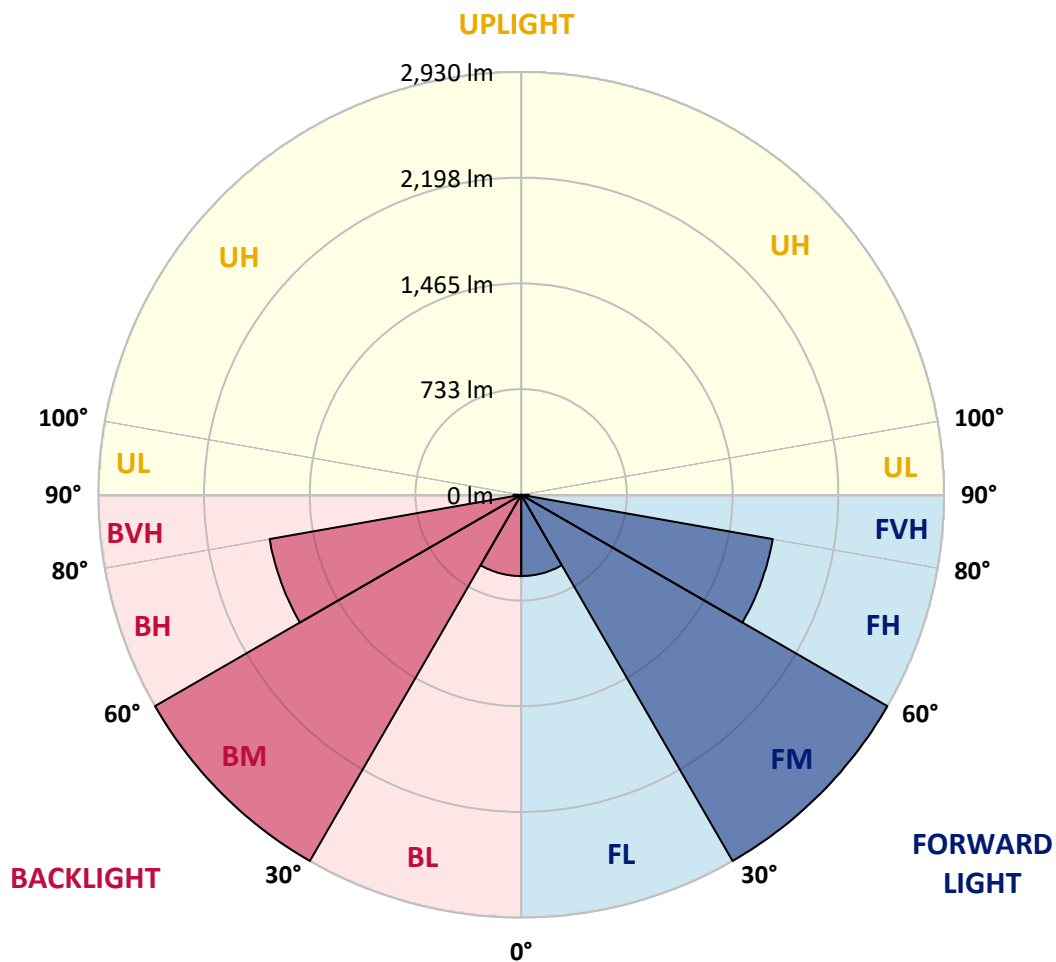
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.1	5.3			
FM	(30°-60°)	2930.3	27.6			
FH	(60°-80°)	1770.3	16.6			G1/1800
FVH	(80°-90°)	53.0	0.5			G1/100
BL	(0°-30°)	563.1	5.3	B2/1000		
BM	(30°-60°)	2930.3	27.6	B3/5000		
BH	(60°-80°)	1770.3	16.6	B3/2500		G3/2500
BVH	(80°-90°)	53.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1177.5	1176.5	1177.5	1177.0	1177.9	1177.9	1178.9	1181.0	1181.0	1182.4	1182.0
5°	1165.9	1165.5	1166.9	1168.4	1170.0	1172.9	1176.1	1180.6	1184.1	1186.5	1189.0
7.5°	1143.4	1143.4	1145.2	1148.8	1152.3	1158.9	1165.9	1175.0	1184.1	1191.5	1198.1
10°	1124.7	1125.8	1128.2	1134.3	1140.3	1150.3	1159.9	1172.9	1185.6	1198.1	1208.1
12.5°	1113.7	1115.2	1119.6	1128.7	1138.8	1152.3	1166.9	1183.4	1197.6	1212.6	1222.8
15°	1117.2	1118.2	1124.7	1135.7	1148.8	1165.9	1185.6	1205.2	1221.8	1237.8	1251.3
17.5°	1136.7	1138.3	1145.8	1158.4	1172.0	1192.1	1213.2	1235.3	1255.9	1273.9	1290.5
20°	1172.0	1173.5	1183.0	1196.6	1212.6	1233.3	1254.4	1277.5	1300.6	1319.7	1338.3
22.5°	1221.8	1224.2	1233.3	1246.8	1265.0	1287.0	1312.2	1336.8	1358.9	1376.6	1393.1
25°	1287.0	1292.7	1301.1	1316.1	1335.3	1355.5	1382.5	1407.6	1428.8	1445.4	1457.4
27.5°	1379.4	1387.1	1393.6	1408.2	1426.8	1445.8	1473.0	1495.0	1515.3	1531.3	1540.4
30°	1502.1	1509.6	1516.2	1530.3	1547.4	1565.4	1591.1	1610.8	1623.2	1635.9	1635.4
32.5°	1650.8	1658.9	1661.4	1676.4	1694.2	1713.6	1736.9	1747.9	1758.0	1759.4	1750.3
35°	1817.2	1821.3	1831.4	1851.3	1871.4	1887.6	1909.6	1915.2	1915.2	1907.7	1887.6
37.5°	1999.6	2002.1	2016.2	2038.9	2059.5	2076.1	2091.2	2102.2	2096.6	2080.6	2046.9
40°	2199.7	2204.3	2224.4	2244.3	2267.5	2283.1	2299.2	2301.2	2295.7	2272.1	2226.3
42.5°	2390.6	2394.6	2414.7	2446.4	2476.5	2498.1	2513.3	2516.3	2498.6	2477.0	2420.4
45°	2555.0	2565.5	2591.7	2628.8	2672.5	2703.2	2723.8	2732.4	2716.8	2688.6	2622.8
47.5°	2685.2	2695.6	2732.9	2777.1	2831.4	2881.1	2915.3	2933.3	2929.4	2908.3	2836.4
50°	2780.7	2790.7	2830.9	2885.1	2948.4	3010.3	3068.6	3111.8	3126.9	3117.3	3051.5
52.5°	2791.7	2808.2	2855.5	2928.4	3010.8	3095.2	3178.2	3251.5	3301.2	3308.7	3260.0
55°	2637.5	2654.0	2719.3	2827.3	2949.9	3087.7	3220.3	3344.0	3441.9	3492.3	3466.6
57.5°	2273.5	2303.3	2372.1	2498.6	2679.1	2885.1	3096.7	3316.4	3515.8	3649.1	3674.6
60°	1742.4	1777.6	1846.8	1981.5	2182.6	2428.3	2710.7	3035.5	3387.7	3687.3	3866.1
62.5°	1117.8	1150.9	1223.8	1340.8	1504.7	1771.0	2074.0	2459.5	2932.8	3405.8	3832.0
65°	574.5	592.5	630.7	701.5	829.2	1028.2	1300.0	1684.5	2225.8	2809.3	3425.3
67.5°	363.9	367.3	375.9	385.9	418.6	487.5	614.1	853.7	1299.0	1907.7	2628.8
70°	314.5	314.5	310.5	309.0	313.1	322.6	342.3	397.9	548.2	905.6	1516.2
72.5°	287.9	284.9	277.9	272.4	271.4	271.4	275.4	284.0	308.1	368.8	593.5
75°	265.4	256.7	247.3	240.7	238.2	235.6	235.1	236.8	241.7	251.3	283.4
77.5°	237.7	226.6	215.7	209.0	206.0	202.5	199.6	196.0	193.4	196.5	210.6
80°	204.5	192.0	183.4	179.4	176.3	171.3	164.7	158.8	153.3	152.3	160.8
82.5°	164.7	150.2	150.7	152.3	146.8	139.6	132.7	126.1	116.6	111.6	116.6
85°	133.2	125.7	122.1	131.7	123.6	113.0	102.0	90.5	75.4	63.3	68.8
87.5°	51.7	51.7	77.4	119.1	107.1	87.5	74.9	63.8	39.7	30.6	31.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5	1179.5
2.5°	1181.5	1182.4	1182.0	1181.5	1181.5	1181.0	1181.5	1181.5
5°	1190.6	1193.0	1193.0	1194.0	1194.0	1194.6	1195.0	1194.6
7.5°	1204.1	1208.6	1211.6	1215.1	1215.6	1216.1	1217.2	1216.1
10°	1217.7	1226.7	1233.3	1239.8	1242.8	1243.9	1244.8	1244.8
12.5°	1234.8	1247.3	1258.9	1270.5	1276.0	1278.9	1278.9	1281.1
15°	1262.8	1275.5	1289.1	1304.6	1314.2	1319.3	1320.7	1320.7
17.5°	1302.6	1313.7	1325.2	1340.4	1352.4	1358.9	1360.5	1359.9
20°	1348.8	1359.5	1366.0	1375.5	1386.1	1393.6	1395.5	1395.5
22.5°	1401.6	1407.6	1408.6	1411.6	1420.2	1430.2	1434.9	1435.9
25°	1459.9	1461.5	1457.4	1457.4	1462.9	1472.5	1477.1	1477.5
27.5°	1535.4	1527.7	1517.6	1514.3	1517.6	1528.7	1534.2	1536.3
30°	1629.3	1611.2	1588.1	1575.4	1573.6	1588.1	1598.2	1599.6
32.5°	1736.9	1710.7	1680.0	1654.4	1647.9	1657.0	1669.1	1668.5
35°	1864.4	1833.4	1796.2	1763.5	1748.5	1757.4	1774.5	1776.5
37.5°	2011.8	1971.1	1928.3	1887.1	1863.4	1866.0	1884.0	1890.2
40°	2176.1	2123.2	2069.5	2014.2	1980.6	1974.0	1996.2	1999.6
42.5°	2351.9	2284.1	2216.3	2147.8	2104.6	2094.7	2120.3	2118.7
45°	2539.4	2452.9	2373.5	2298.1	2246.9	2231.7	2252.9	2252.9
47.5°	2740.9	2634.4	2539.9	2454.4	2398.7	2377.1	2397.1	2398.7
50°	2954.4	2841.3	2730.4	2635.4	2568.6	2540.9	2567.0	2571.0
52.5°	3167.1	3057.0	2945.0	2836.4	2755.6	2721.9	2752.0	2765.1
55°	3382.7	3274.6	3167.6	3061.6	2965.6	2925.9	2957.9	2974.6
57.5°	3610.4	3510.3	3408.3	3301.2	3208.7	3147.0	3181.2	3203.3
60°	3877.2	3791.7	3685.7	3567.6	3474.1	3411.4	3430.9	3450.5
62.5°	4088.2	4121.5	4031.5	3894.8	3774.7	3694.3	3713.4	3734.0
65°	3986.3	4326.4	4406.4	4268.1	4101.8	3976.6	3968.6	3979.2
67.5°	3332.0	3992.7	4474.6	4606.4	4467.2	4293.3	4261.1	4276.7
70°	2228.9	3052.0	3902.2	4535.5	4703.9	4636.5	4604.9	4614.5
72.5°	1070.4	1777.6	2647.5	3489.1	4001.8	4237.0	4312.5	4349.1
75°	391.5	705.6	1276.0	1922.7	2321.3	2687.1	2925.9	3023.3
77.5°	236.3	284.9	407.7	613.6	695.0	777.9	745.9	761.9
80°	174.9	197.4	223.7	251.3	260.2	260.2	250.3	242.3
82.5°	122.6	137.3	149.7	164.7	168.8	161.3	132.7	105.6
85°	79.0	85.3	91.0	100.5	97.9	93.5	62.8	55.8
87.5°	36.2	41.2	43.2	47.7	45.8	43.7	31.1	26.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)