

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: P269061

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269061
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-02-LED-E1-RW-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10815.9 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

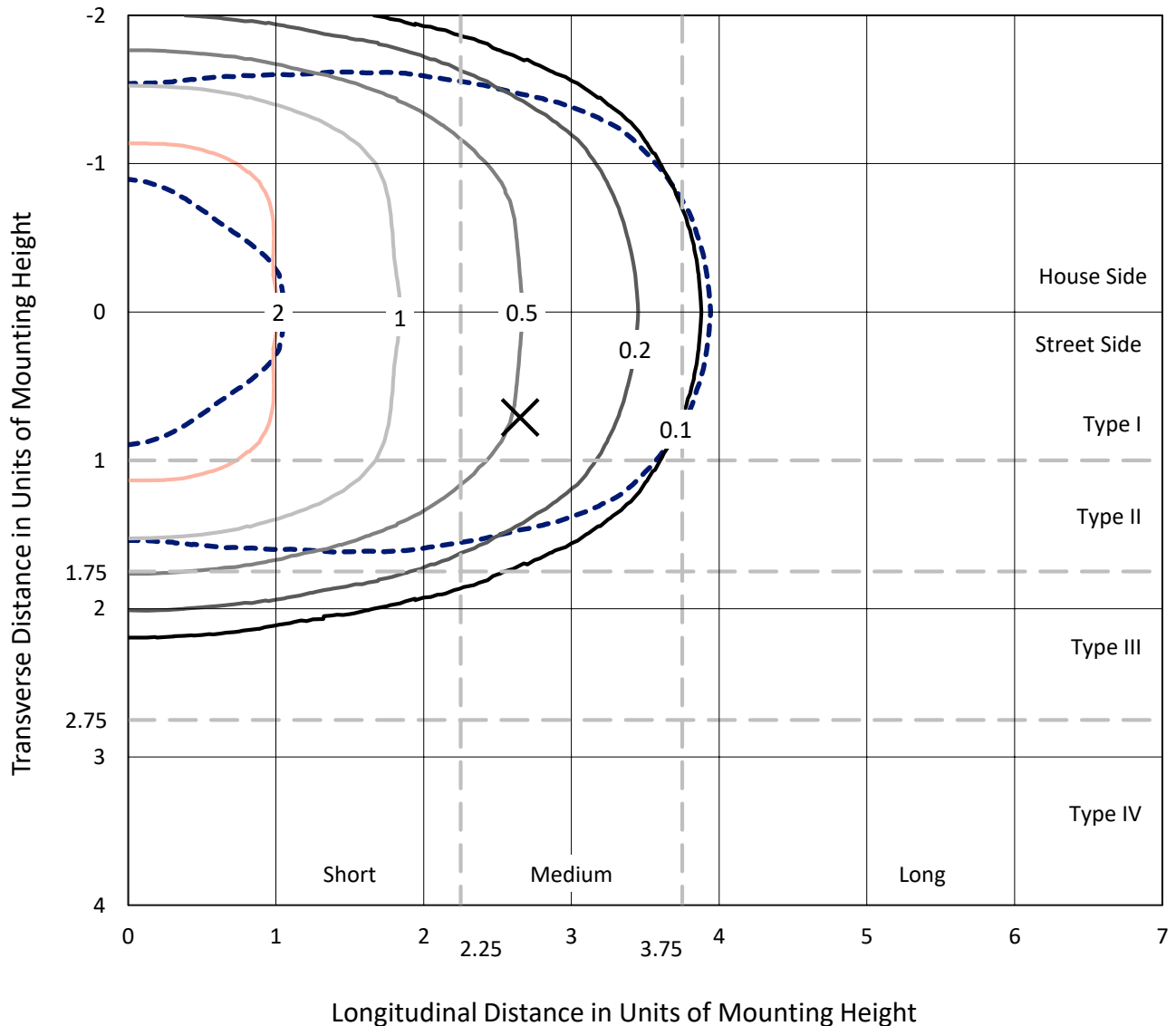
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

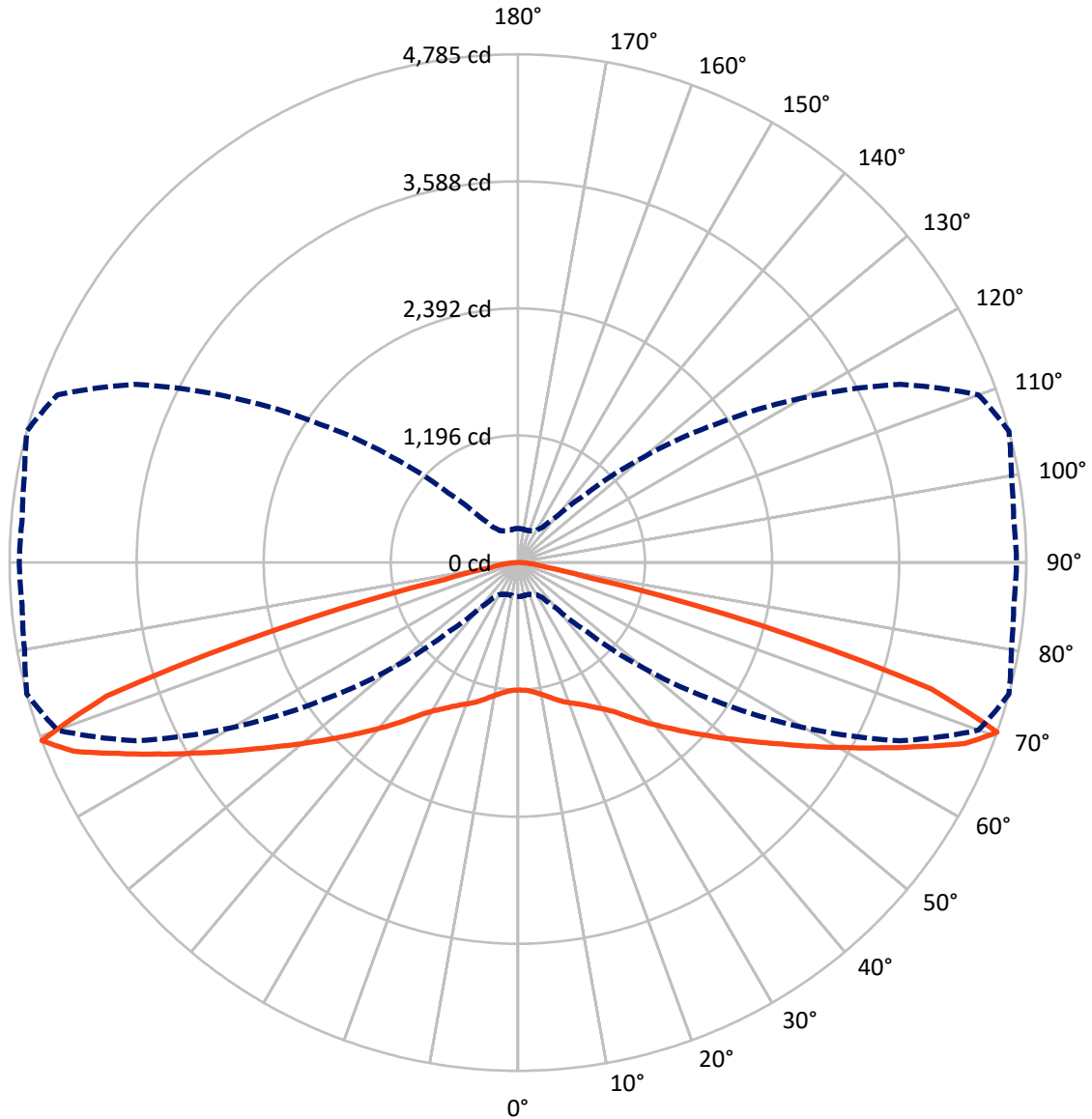
× Max cd
 - - - 1/2 Max cd



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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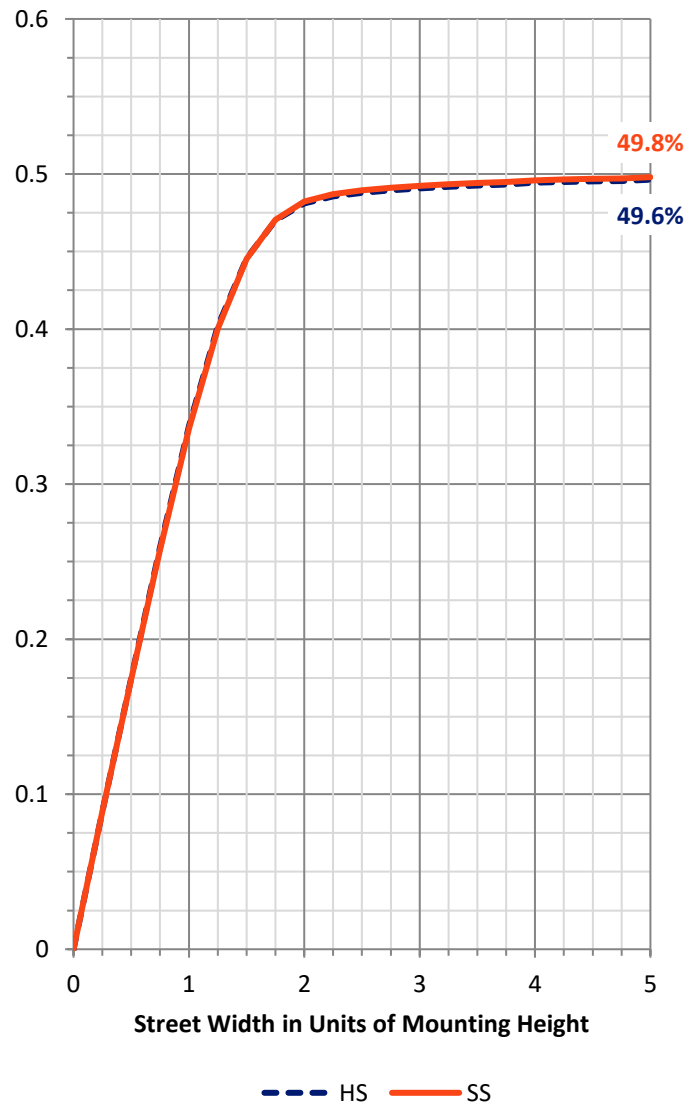
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5408.0	0.0	5408.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5408.0	0.0	5408.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10815.9	0.0	10815.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	1.1
10°-20°	357.5	3.3
20°-30°	672.9	6.2
30°-40°	1191.6	11.0
40°-50°	1992.7	18.4
50°-60°	2776.9	25.7
60°-70°	2575.1	23.8
70°-80°	1026.3	9.5
80°-90°	107.9	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°	10815.9	100.0
0°-180°	10815.9	100.0



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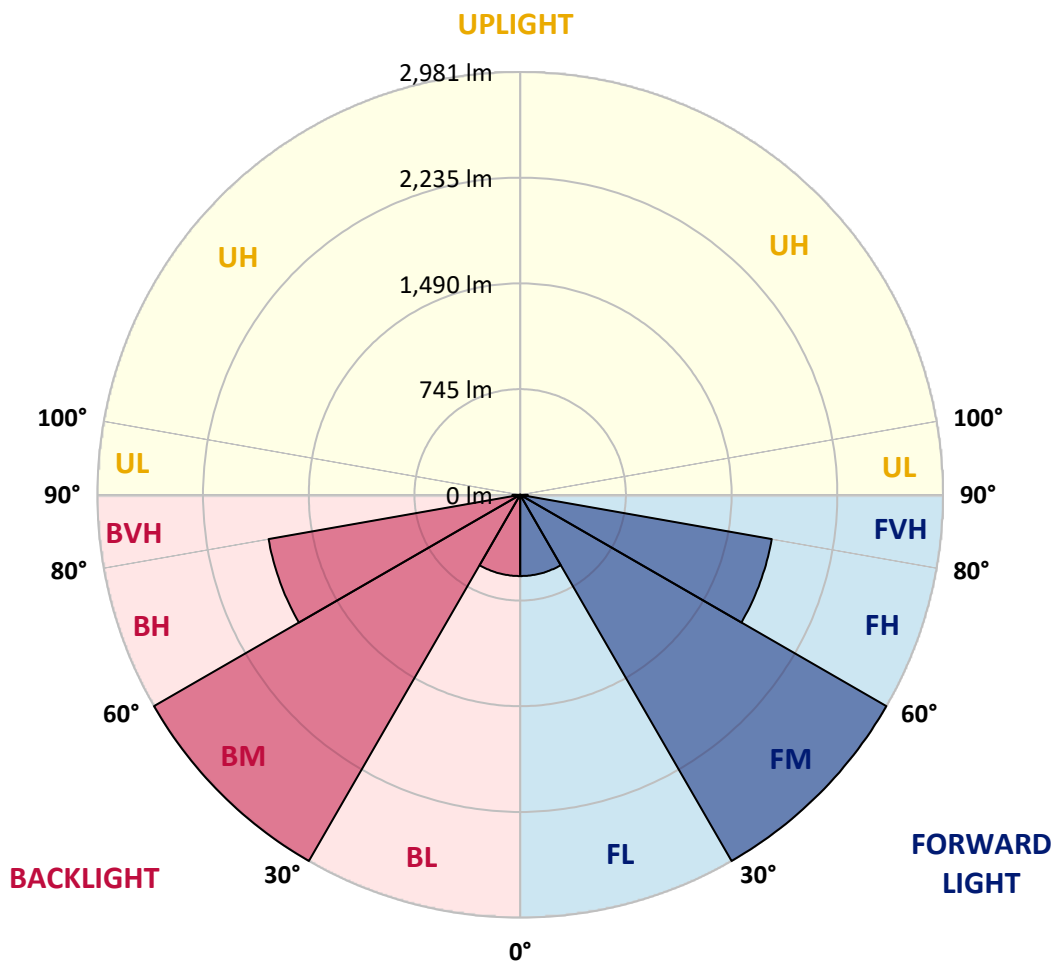
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	572.7	5.3			
FM	(30°-60°)	2980.6	27.6			
FH	(60°-80°)	1800.7	16.6			G2/5000
FVH	(80°-90°)	53.9	0.5			G1/100
BL	(0°-30°)	572.7	5.3	B2/1000		
BM	(30°-60°)	2980.6	27.6	B3/5000		
BH	(60°-80°)	1800.7	16.6	B3/2500		G3/2500
BVH	(80°-90°)	53.9	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°	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7
2.5°	1197.7	1196.6	1197.7	1197.3	1198.2	1198.2	1199.2	1201.3	1201.3	1202.8	1202.3
5°	1185.9	1185.5	1187.0	1188.5	1190.1	1193.0	1196.2	1200.8	1204.4	1207.0	1209.5
7.5°	1162.9	1162.9	1165.0	1168.5	1172.2	1178.8	1185.9	1195.1	1204.4	1212.1	1218.6
10°	1144.0	1145.0	1147.7	1153.8	1159.9	1170.1	1179.8	1193.0	1205.9	1218.6	1228.9
12.5°	1132.8	1134.3	1139.0	1148.2	1158.4	1172.2	1187.0	1203.8	1218.1	1233.5	1243.8
15°	1136.4	1137.3	1144.0	1155.3	1168.5	1185.9	1205.9	1225.7	1242.6	1259.1	1272.9
17.5°	1156.3	1157.8	1165.6	1178.2	1192.1	1212.5	1234.0	1256.5	1277.4	1295.8	1312.8
20°	1192.1	1193.6	1203.3	1217.2	1233.5	1254.5	1276.0	1299.4	1322.9	1342.3	1361.3
22.5°	1242.6	1245.2	1254.5	1268.2	1286.6	1309.1	1334.7	1359.8	1382.2	1400.1	1416.9
25°	1309.1	1314.8	1323.5	1338.7	1358.1	1378.7	1406.2	1431.8	1453.3	1470.2	1482.5
27.5°	1403.2	1410.9	1417.4	1432.3	1451.2	1470.6	1498.3	1520.8	1541.2	1557.7	1566.7
30°	1527.8	1535.7	1542.2	1556.6	1573.9	1592.3	1618.3	1638.2	1651.2	1663.9	1663.4
32.5°	1679.2	1687.3	1689.9	1705.3	1723.2	1743.2	1766.6	1777.8	1788.0	1789.7	1780.4
35°	1848.4	1852.6	1862.7	1883.1	1903.6	1919.9	1942.4	1948.2	1948.2	1940.3	1919.9
37.5°	2034.0	2036.5	2050.8	2073.8	2094.8	2111.6	2127.0	2138.2	2132.7	2116.2	2082.0
40°	2237.4	2242.0	2262.6	2283.0	2306.5	2322.3	2338.6	2340.8	2335.1	2311.0	2264.5
42.5°	2431.7	2435.8	2456.2	2488.5	2519.0	2541.0	2556.3	2559.5	2541.6	2519.6	2461.8
45°	2598.8	2609.5	2636.2	2674.0	2718.5	2749.6	2770.6	2779.3	2763.5	2734.8	2667.8
47.5°	2731.2	2741.9	2779.7	2824.8	2880.0	2930.6	2965.3	2983.8	2979.7	2958.2	2885.0
50°	2828.4	2838.6	2879.4	2934.8	2999.1	3062.0	3121.3	3165.2	3180.5	3170.8	3103.9
52.5°	2839.6	2856.5	2904.5	2978.6	3062.5	3148.4	3232.7	3307.3	3358.0	3365.6	3316.1
55°	2682.7	2699.5	2766.1	2876.0	3000.6	3140.7	3275.6	3401.4	3501.1	3552.2	3526.0
57.5°	2312.5	2342.7	2412.8	2541.6	2725.1	2934.8	3149.8	3373.2	3576.2	3711.6	3737.8
60°	1772.3	1808.1	1878.5	2015.5	2220.0	2470.0	2757.3	3087.6	3445.9	3750.6	3932.5
62.5°	1136.8	1170.6	1244.7	1363.8	1530.4	1801.5	2109.6	2501.7	2983.2	3464.3	3897.7
65°	584.3	602.8	641.5	713.7	843.5	1045.8	1322.5	1713.4	2264.0	2857.5	3484.2
67.5°	370.1	373.6	382.4	392.6	425.7	495.9	624.6	868.5	1321.3	1940.3	2674.0
70°	319.9	319.9	315.9	314.3	318.4	328.2	348.2	404.9	557.7	921.1	1542.2
72.5°	292.8	289.9	282.6	277.0	276.0	276.0	280.1	288.9	313.4	375.2	603.8
75°	269.9	261.1	251.4	244.9	242.4	239.8	239.2	240.7	245.9	255.6	288.3
77.5°	241.7	230.5	219.2	212.7	209.6	206.0	202.9	199.3	196.8	199.9	214.2
80°	208.0	195.3	186.6	182.4	179.4	174.4	167.7	161.5	155.9	154.9	163.6
82.5°	167.7	152.8	153.3	154.9	149.3	142.1	134.9	128.3	118.5	113.5	118.5
85°	135.5	127.7	124.2	133.9	125.8	115.1	103.8	91.9	76.6	64.4	70.1
87.5°	52.6	52.6	78.7	121.1	108.9	88.9	76.1	64.9	40.3	31.3	31.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7	1199.7
2.5°	1201.8	1202.8	1202.3	1201.8	1201.8	1201.3	1201.8	1201.8
5°	1210.9	1213.5	1213.5	1214.6	1214.6	1215.0	1215.5	1215.0
7.5°	1224.7	1229.4	1232.5	1236.1	1236.5	1237.1	1238.0	1237.1
10°	1238.7	1247.7	1254.5	1261.1	1264.2	1265.2	1266.3	1266.3
12.5°	1256.0	1268.8	1280.5	1292.2	1298.0	1300.9	1300.9	1303.0
15°	1284.5	1297.4	1311.2	1327.1	1336.8	1341.9	1343.3	1343.3
17.5°	1325.0	1336.1	1347.9	1363.3	1375.6	1382.2	1383.7	1383.3
20°	1372.0	1382.8	1389.4	1399.1	1409.8	1417.4	1419.5	1419.5
22.5°	1425.7	1431.8	1432.8	1435.9	1444.6	1454.8	1459.4	1460.5
25°	1485.0	1486.5	1482.5	1482.5	1488.0	1497.7	1502.3	1502.9
27.5°	1561.7	1554.0	1543.7	1540.1	1543.7	1555.0	1560.6	1562.7
30°	1657.3	1638.9	1615.3	1602.5	1600.5	1615.3	1625.6	1627.1
32.5°	1766.6	1740.0	1708.8	1682.9	1676.1	1685.4	1697.6	1697.1
35°	1896.5	1864.8	1827.0	1793.7	1778.4	1787.5	1805.0	1807.0
37.5°	2046.2	2004.8	1961.4	1919.5	1895.5	1897.9	1916.4	1922.6
40°	2213.5	2159.7	2105.1	2048.9	2014.5	2007.9	2030.3	2034.0
42.5°	2392.4	2323.2	2254.2	2184.8	2140.8	2130.6	2156.7	2155.2
45°	2582.9	2495.0	2414.4	2337.6	2285.5	2270.1	2291.7	2291.7
47.5°	2788.0	2679.6	2583.4	2496.6	2439.8	2417.9	2438.3	2439.8
50°	3005.2	2890.1	2777.2	2680.6	2612.6	2584.6	2611.2	2615.1
52.5°	3221.4	3109.6	2995.5	2885.0	2802.8	2768.5	2799.2	2812.6
55°	3440.8	3330.8	3222.0	3114.2	3016.5	2976.1	3008.9	3025.8
57.5°	3672.4	3570.7	3466.7	3358.0	3263.9	3201.0	3235.8	3258.2
60°	3943.7	3856.9	3748.9	3628.9	3533.8	3470.0	3489.8	3509.8
62.5°	4158.4	4192.2	4100.8	3961.6	3839.4	3757.7	3777.2	3798.0
65°	4054.7	4400.7	4482.1	4341.5	4172.3	4045.0	4036.9	4047.6
67.5°	3389.1	4061.2	4551.5	4685.5	4543.8	4367.0	4334.3	4350.1
70°	2267.1	3104.5	3969.3	4613.3	4784.6	4716.1	4683.9	4693.6
72.5°	1088.8	1808.1	2692.8	3549.2	4070.5	4309.8	4386.5	4423.8
75°	398.2	717.7	1298.0	1955.8	2361.1	2733.3	2976.1	3075.3
77.5°	240.2	289.9	414.6	624.1	707.0	791.2	758.6	775.0
80°	177.9	201.0	227.5	255.6	264.8	264.8	254.6	246.3
82.5°	124.8	139.5	152.4	167.7	171.8	164.1	134.9	107.3
85°	80.3	86.9	92.5	102.2	99.7	95.1	63.9	56.8
87.5°	36.8	42.0	43.9	48.6	46.5	44.5	31.7	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)