

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: P190999

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190999
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-01-LED-E1-RW-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5265.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 44
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

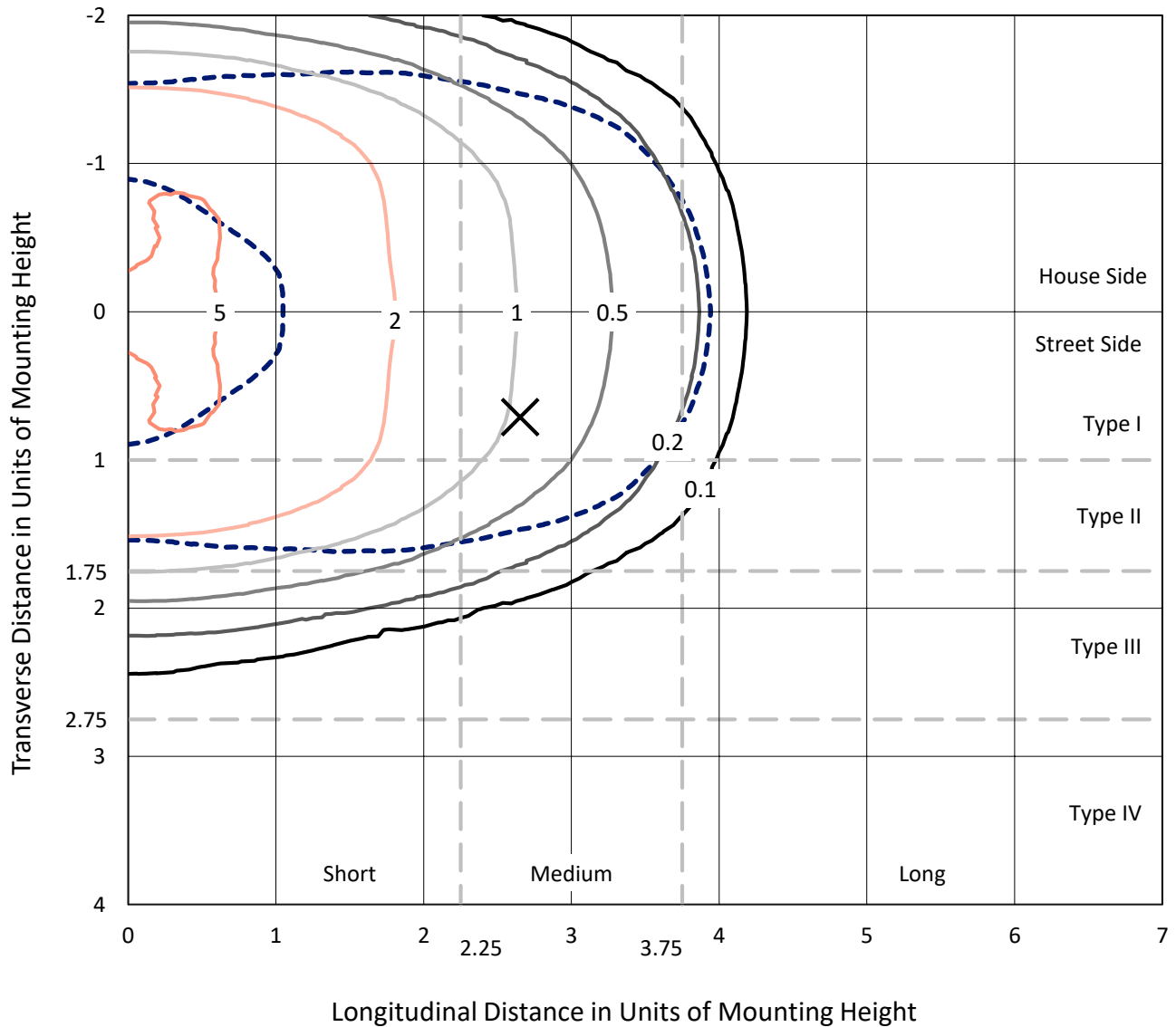


REPORT NUMBER: P190999

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-800

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

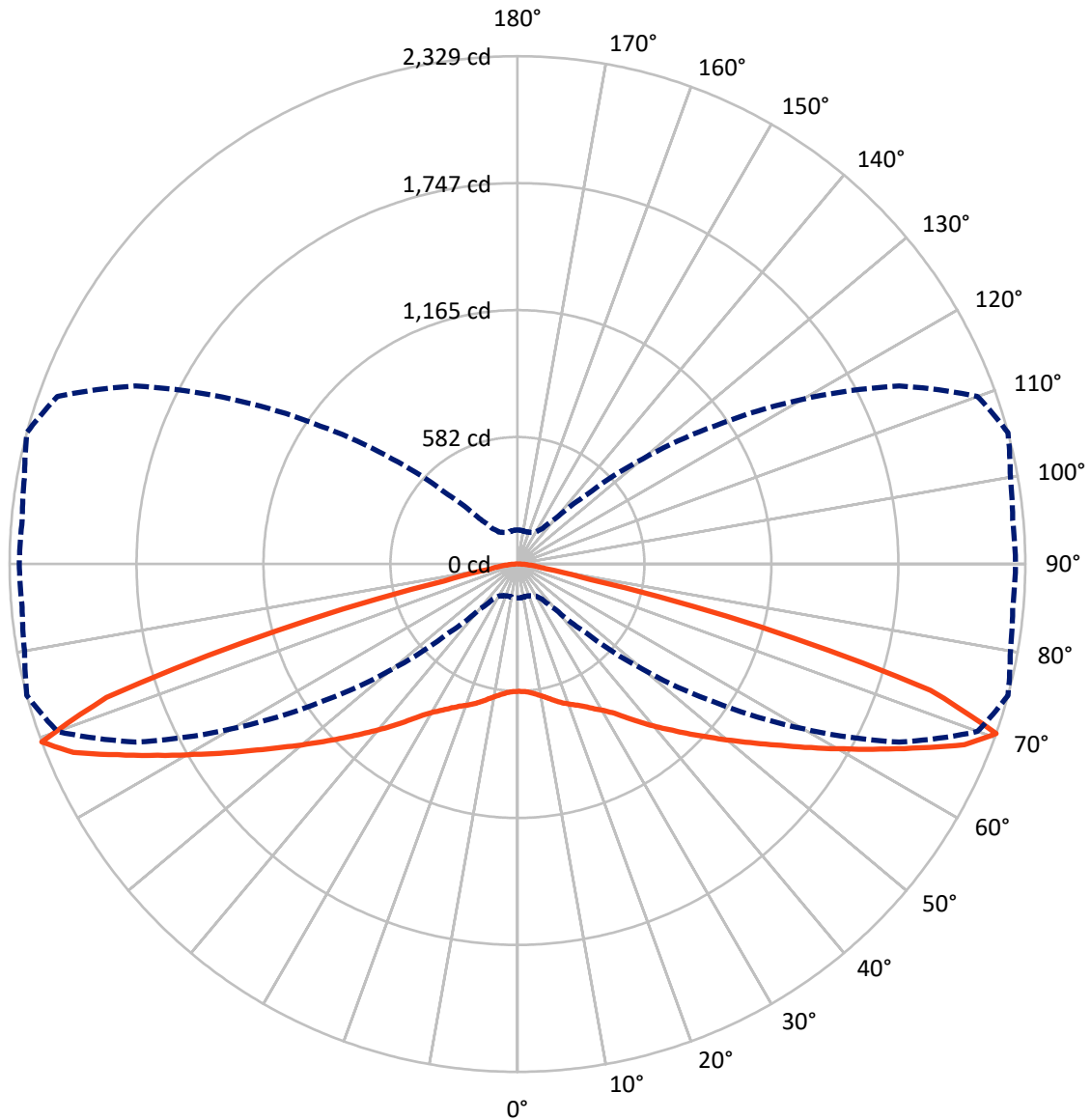


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P190999

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P190999

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-800

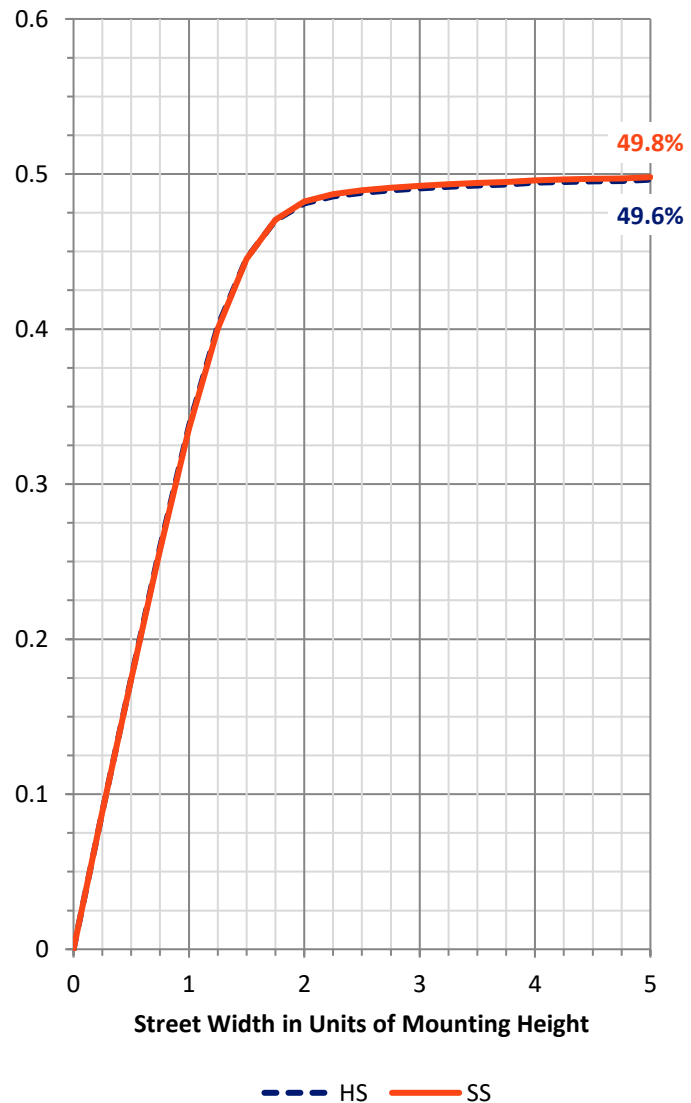
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.6	0.0	2632.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2632.6	0.0	2632.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	5265.1	0.0	5265.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	1.1
10°-20°	174.0	3.3
20°-30°	327.6	6.2
30°-40°	580.1	11.0
40°-50°	970.0	18.4
50°-60°	1351.8	25.7
60°-70°	1253.5	23.8
70°-80°	499.6	9.5
80°-90°	52.5	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°	5265.1	100.0
0°-180°	5265.1	100.0



REPORT NUMBER: P190999

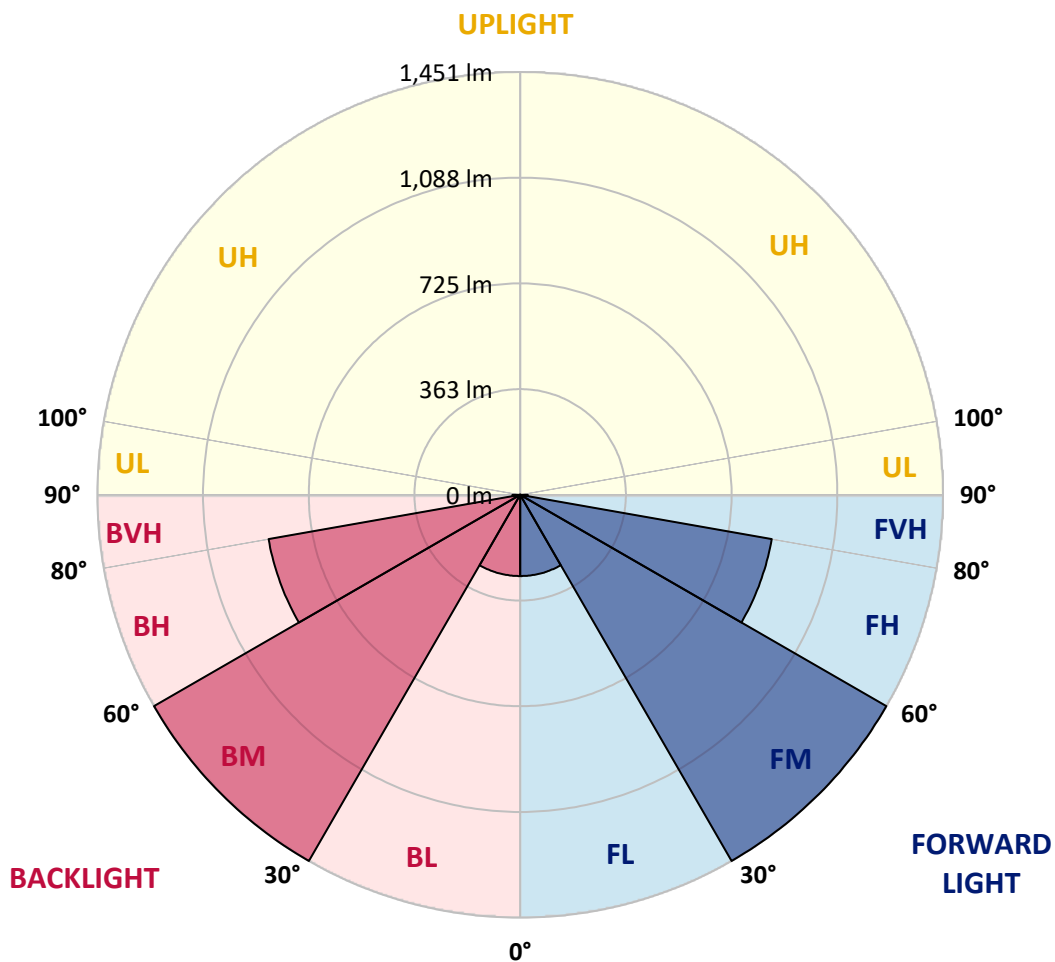
CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.8	5.3			
FM	(30°-60°)	1450.9	27.6			
FH	(60°-80°)	876.6	16.6			G1/1800
FVH	(80°-90°)	26.3	0.5			G1/100
BL	(0°-30°)	278.8	5.3	B1/500		
BM	(30°-60°)	1450.9	27.6	B2/2500		
BH	(60°-80°)	876.6	16.6	B2/1000		G2/1000
BVH	(80°-90°)	26.3	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-G2

Type II Medium





REPORT NUMBER: P190999

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
2.5°	583.0	582.6	583.0	582.8	583.3	583.3	583.8	584.8	584.8	585.5	585.2
5°	577.4	577.0	577.8	578.6	579.3	580.8	582.3	584.5	586.3	587.5	588.7
7.5°	566.1	566.1	567.1	568.9	570.6	573.8	577.4	581.8	586.3	590.0	593.2
10°	556.9	557.4	558.6	561.6	564.6	569.6	574.3	580.8	587.0	593.2	598.2
12.5°	551.5	552.2	554.4	558.9	563.9	570.6	577.8	586.0	593.0	600.5	605.4
15°	553.2	553.6	556.9	562.4	568.9	577.4	587.0	596.7	605.0	612.8	619.6
17.5°	562.8	563.6	567.3	573.6	580.3	590.2	600.7	611.6	621.9	630.9	639.0
20°	580.3	581.0	585.7	592.5	600.5	610.7	621.1	632.6	643.9	653.5	662.7
22.5°	605.0	606.2	610.7	617.4	626.4	637.3	649.7	662.0	672.9	681.6	689.8
25°	637.3	640.1	644.3	651.7	661.1	671.2	684.6	697.0	707.5	715.7	721.6
27.5°	683.0	686.8	690.0	697.2	706.4	715.9	729.4	740.3	750.2	758.2	762.7
30°	743.8	747.5	750.7	757.7	766.2	775.1	787.8	797.5	803.7	810.0	809.8
32.5°	817.4	821.4	822.7	830.1	838.8	848.5	860.0	865.4	870.4	871.1	866.7
35°	899.8	901.8	906.7	916.8	926.7	934.7	945.6	948.3	948.3	944.6	934.7
37.5°	990.1	991.3	998.3	1009.6	1019.8	1028.0	1035.4	1040.9	1038.2	1030.2	1013.5
40°	1089.1	1091.4	1101.4	1111.3	1122.8	1130.5	1138.4	1139.5	1136.7	1125.0	1102.3
42.5°	1183.8	1185.7	1195.6	1211.4	1226.3	1237.0	1244.4	1246.0	1237.3	1226.5	1198.4
45°	1265.1	1270.3	1283.3	1301.7	1323.3	1338.5	1348.7	1353.0	1345.2	1331.3	1298.7
47.5°	1329.5	1334.7	1353.2	1375.1	1402.0	1426.6	1443.5	1452.5	1450.4	1440.0	1404.4
50°	1376.8	1381.8	1401.7	1428.6	1460.0	1490.5	1519.4	1540.8	1548.2	1543.5	1511.0
52.5°	1382.3	1390.5	1413.9	1450.0	1490.7	1532.6	1573.7	1610.0	1634.6	1638.4	1614.2
55°	1305.9	1314.1	1346.5	1400.0	1460.7	1528.9	1594.6	1655.7	1704.3	1729.2	1716.5
57.5°	1125.8	1140.4	1174.6	1237.3	1326.6	1428.6	1533.3	1642.0	1740.9	1806.8	1819.5
60°	862.8	880.1	914.5	981.2	1080.7	1202.4	1342.2	1503.0	1677.4	1825.8	1914.4
62.5°	553.4	569.9	605.9	663.9	745.0	876.9	1026.9	1217.8	1452.2	1686.3	1897.4
65°	284.4	293.4	312.3	347.4	410.6	509.1	643.7	834.1	1102.1	1391.0	1696.1
67.5°	180.1	181.9	186.2	191.1	207.2	241.4	304.1	422.8	643.2	944.6	1301.7
70°	155.8	155.8	153.7	153.0	155.0	159.8	169.5	197.1	271.5	448.4	750.7
72.5°	142.6	141.1	137.6	134.8	134.4	134.4	136.4	140.6	152.5	182.7	293.9
75°	131.3	127.2	122.4	119.2	117.9	116.7	116.4	117.2	119.7	124.4	140.3
77.5°	117.7	112.2	106.8	103.5	102.0	100.2	98.8	97.1	95.9	97.3	104.2
80°	101.3	95.0	90.8	88.8	87.4	84.9	81.6	78.7	75.9	75.4	79.6
82.5°	81.6	74.4	74.7	75.4	72.6	69.2	65.7	62.5	57.7	55.2	57.7
85°	66.0	62.2	60.5	65.2	61.2	56.0	50.5	44.8	37.3	31.4	34.1
87.5°	25.7	25.7	38.4	59.0	53.0	43.3	37.0	31.6	19.6	15.1	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190999

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	584.0	584.0	584.0	584.0	584.0	584.0	584.0	584.0
2.5°	585.0	585.5	585.2	585.0	585.0	584.8	585.0	585.0
5°	589.5	590.8	590.8	591.3	591.3	591.5	591.8	591.5
7.5°	596.2	598.4	600.0	601.7	601.9	602.2	602.7	602.2
10°	602.9	607.4	610.7	613.9	615.4	615.9	616.3	616.3
12.5°	611.4	617.7	623.4	629.1	631.8	633.3	633.3	634.3
15°	625.3	631.6	638.3	646.0	650.7	653.2	654.0	654.0
17.5°	645.0	650.5	656.2	663.7	669.6	672.9	673.6	673.4
20°	667.9	673.1	676.4	681.1	686.3	690.0	691.0	691.0
22.5°	694.0	697.0	697.4	699.0	703.2	708.2	710.4	711.0
25°	722.9	723.6	721.6	721.6	724.4	729.1	731.3	731.6
27.5°	760.2	756.5	751.5	749.7	751.5	757.0	759.7	760.7
30°	806.7	797.8	786.3	780.1	779.1	786.3	791.4	792.1
32.5°	860.0	847.0	831.9	819.2	815.9	820.4	826.4	826.1
35°	923.2	907.8	889.4	873.2	865.7	870.2	878.6	879.6
37.5°	996.1	976.0	954.8	934.4	922.7	923.9	932.9	935.9
40°	1077.5	1051.4	1024.7	997.4	980.7	977.4	988.4	990.1
42.5°	1164.5	1131.0	1097.4	1063.6	1042.2	1037.2	1049.9	1049.1
45°	1257.4	1214.5	1175.3	1137.9	1112.6	1105.1	1115.5	1115.5
47.5°	1357.1	1304.4	1257.6	1215.4	1187.7	1177.0	1186.9	1187.7
50°	1462.9	1407.0	1351.9	1304.9	1271.8	1258.1	1271.1	1273.1
52.5°	1568.2	1513.7	1458.2	1404.4	1364.4	1347.7	1362.7	1369.1
55°	1675.0	1621.5	1568.4	1515.9	1468.4	1448.7	1464.7	1472.8
57.5°	1787.7	1738.1	1687.7	1634.6	1588.8	1558.3	1575.1	1586.1
60°	1919.8	1877.5	1824.9	1766.5	1720.2	1689.1	1698.8	1708.5
62.5°	2024.3	2040.7	1996.2	1928.5	1869.0	1829.2	1838.7	1848.9
65°	1973.8	2142.3	2181.9	2113.4	2031.1	1969.1	1965.1	1970.3
67.5°	1649.8	1977.1	2215.7	2280.9	2211.9	2125.8	2109.9	2117.6
70°	1103.6	1511.2	1932.3	2245.8	2329.2	2295.8	2280.2	2284.9
72.5°	530.0	880.1	1310.9	1727.7	1981.5	2098.0	2135.3	2153.4
75°	193.8	349.3	631.8	952.1	1149.4	1330.6	1448.7	1497.0
77.5°	116.9	141.1	201.8	303.8	344.1	385.2	369.3	377.3
80°	86.6	97.8	110.7	124.4	128.9	128.9	123.9	119.9
82.5°	60.8	67.9	74.2	81.6	83.6	79.9	65.7	52.3
85°	39.1	42.4	45.0	49.8	48.5	46.2	31.1	27.6
87.5°	17.9	20.4	21.4	23.6	22.6	21.7	15.4	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)