

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: P268983

Luminaire Tested: **GLEON-AF-01-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268983  
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-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4471.6 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

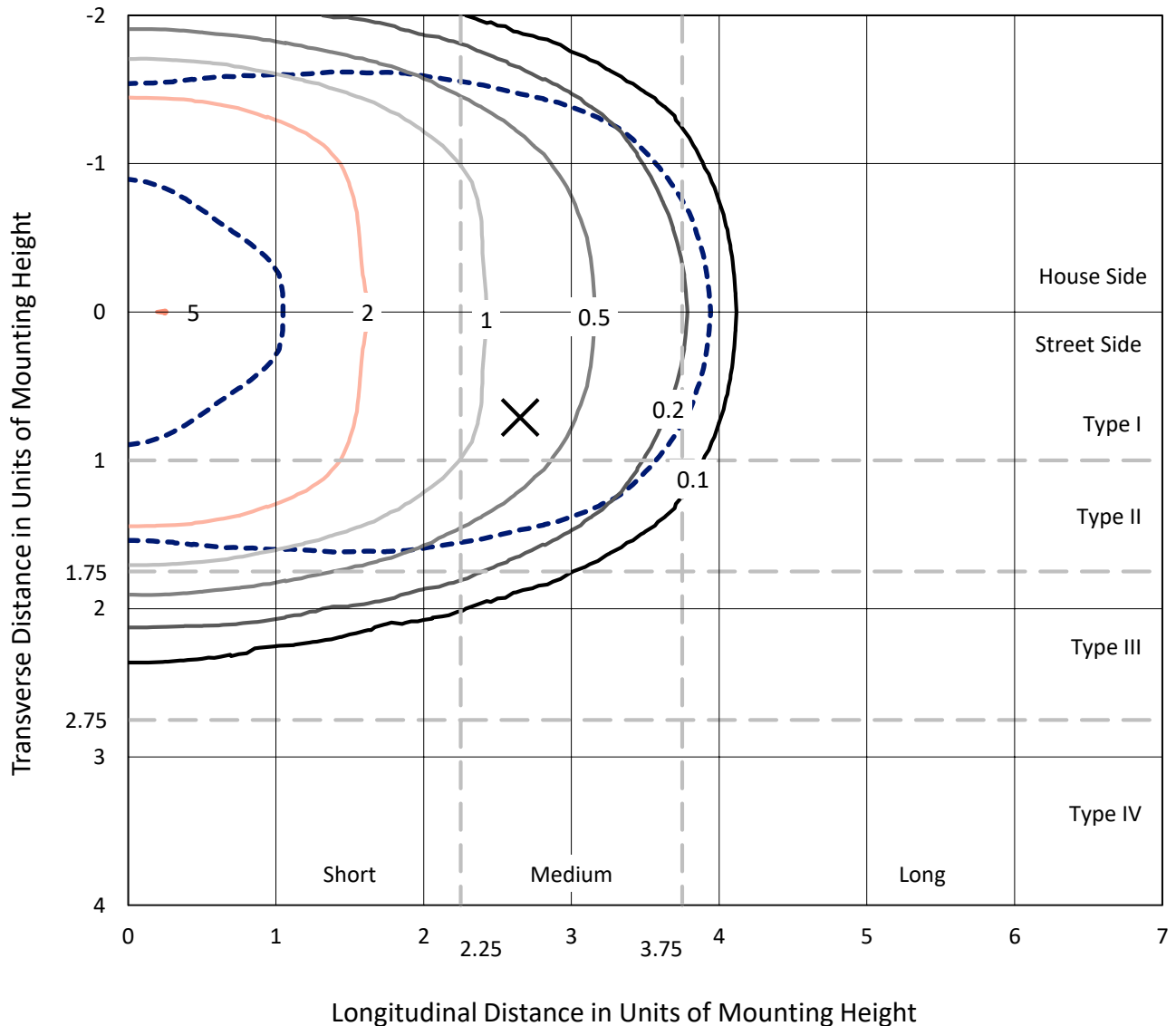
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P268983  
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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

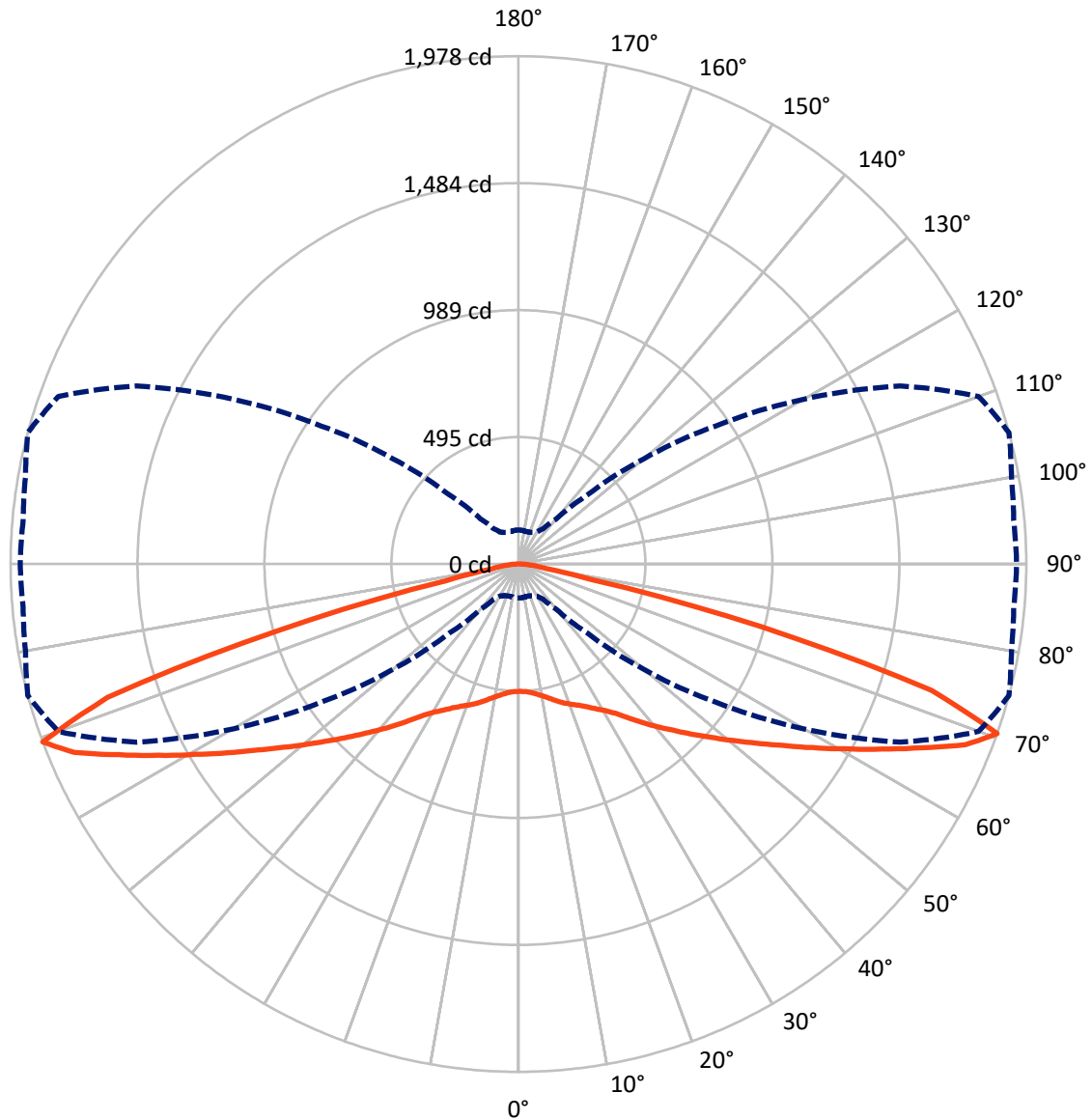


Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P268983

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-7027-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P268983

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-7027-800

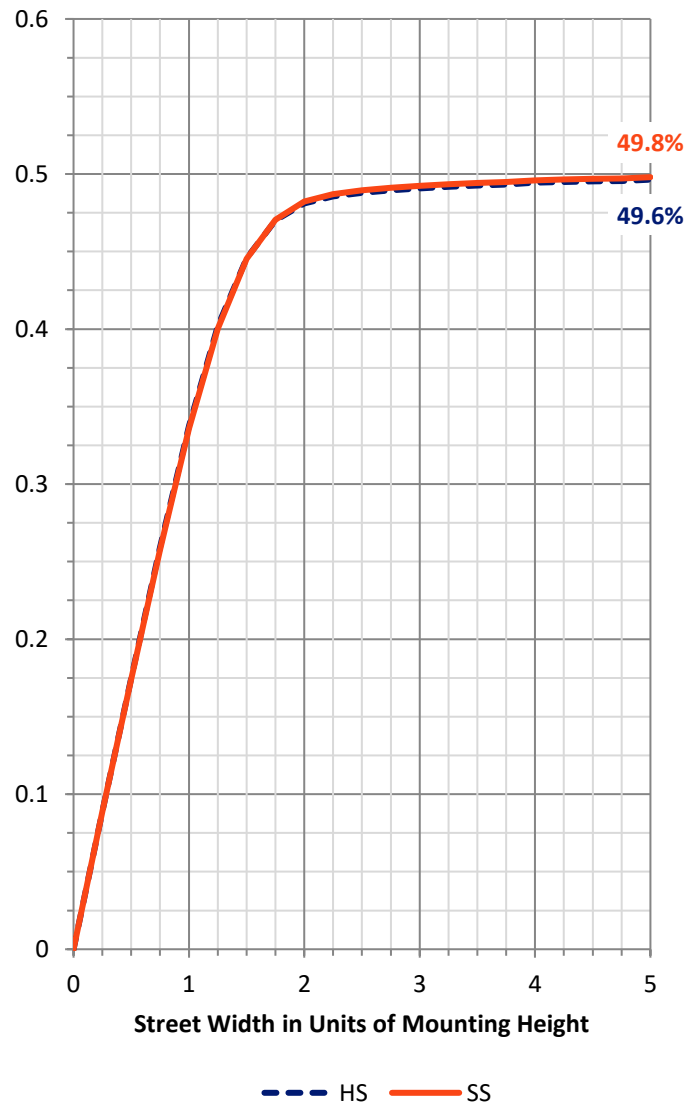
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2235.8	0.0	2235.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2235.8	0.0	2235.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4471.6	0.0	4471.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.6	1.1
10°-20°	147.8	3.3
20°-30°	278.2	6.2
30°-40°	492.6	11.0
40°-50°	823.8	18.4
50°-60°	1148.0	25.7
60°-70°	1064.6	23.8
70°-80°	424.3	9.5
80°-90°	44.6	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°	4471.6	100.0
0°-180°	4471.6	100.0



REPORT NUMBER: P268983

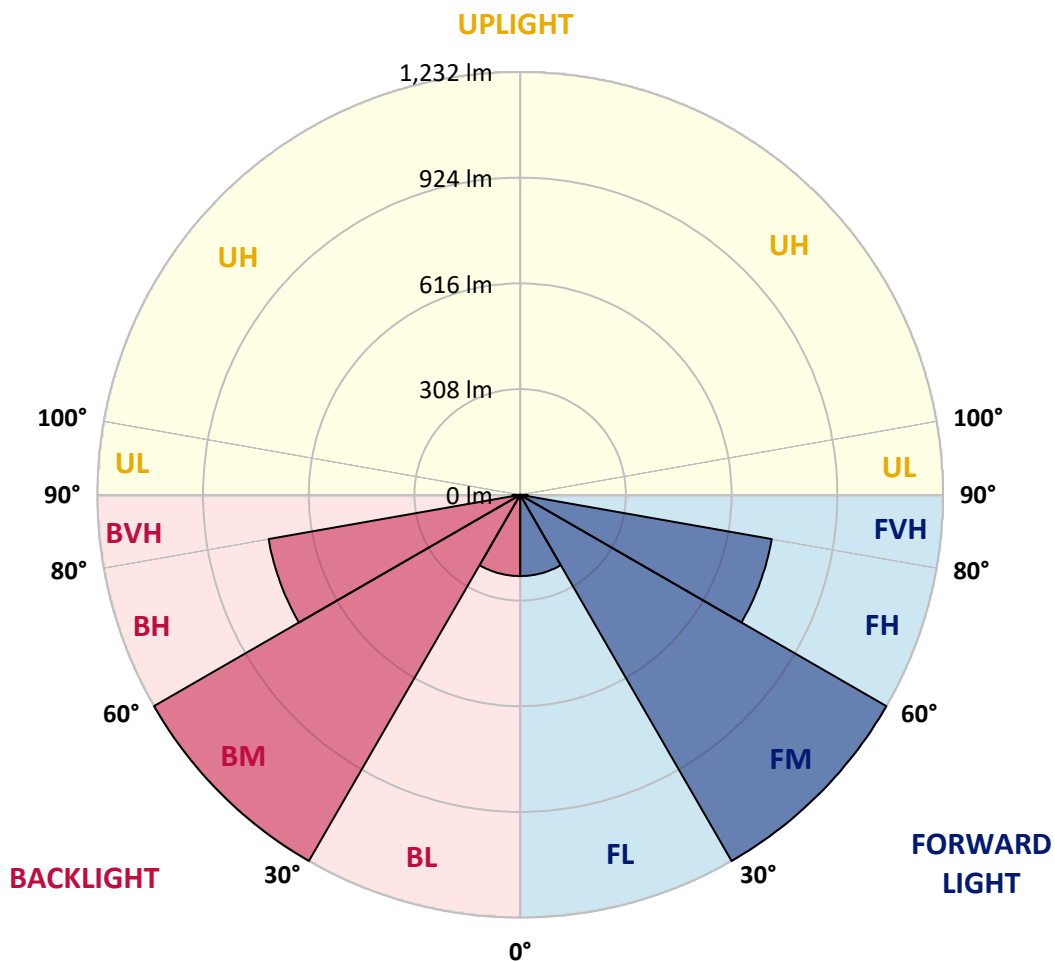
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	236.8	5.3			
FM	(30°-60°)	1232.3	27.6			
FH	(60°-80°)	744.5	16.6			G1/1800
FVH	(80°-90°)	22.3	0.5			G1/100
BL	(0°-30°)	236.8	5.3	B1/500		
BM	(30°-60°)	1232.3	27.6	B2/2500		
BH	(60°-80°)	744.5	16.6	B2/1000		G2/1000
BVH	(80°-90°)	22.3	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: P268983

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	496.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0
2.5°	495.1	494.7	495.1	495.0	495.3	495.3	495.9	496.7	496.7	497.3	497.0
5°	490.4	490.0	490.7	491.4	492.0	493.3	494.5	496.5	497.9	499.0	500.0
7.5°	480.9	480.9	481.6	483.1	484.5	487.3	490.4	494.1	497.9	501.1	503.8
10°	473.0	473.3	474.5	477.0	479.5	483.7	487.8	493.3	498.6	503.8	508.0
12.5°	468.3	468.9	470.8	474.7	478.8	484.5	490.7	497.8	503.6	510.0	514.2
15°	469.9	470.3	473.0	477.5	483.1	490.4	498.6	506.7	513.8	520.5	526.2
17.5°	478.1	478.6	481.9	487.2	492.8	501.3	510.1	519.5	528.2	535.7	542.8
20°	492.8	493.4	497.5	503.2	510.0	518.6	527.5	537.2	547.0	555.0	562.8
22.5°	513.8	514.8	518.6	524.3	531.9	541.1	551.7	562.2	571.4	578.9	585.9
25°	541.1	543.6	547.2	553.4	561.5	570.0	581.5	592.0	600.8	607.9	612.9
27.5°	580.1	583.3	586.1	592.2	600.0	608.1	619.4	628.8	637.2	643.9	647.8
30°	631.7	634.8	637.5	643.5	650.7	658.3	669.1	677.3	682.6	687.9	687.7
32.5°	694.2	697.7	698.7	705.0	712.4	720.7	730.4	735.1	739.2	739.9	736.2
35°	764.2	765.9	770.0	778.7	787.0	793.8	803.1	805.4	805.4	802.2	793.8
37.5°	841.0	842.0	847.9	857.4	866.1	873.1	879.4	884.0	881.6	874.9	860.8
40°	925.1	927.0	935.3	943.8	953.6	960.1	966.8	967.7	965.4	955.4	936.3
42.5°	1005.4	1007.0	1015.4	1028.7	1041.5	1050.6	1056.9	1058.2	1050.7	1041.7	1017.8
45°	1074.5	1078.9	1089.9	1105.5	1123.9	1136.7	1145.5	1149.0	1142.5	1130.6	1102.9
47.5°	1129.2	1133.7	1149.2	1167.8	1190.7	1211.6	1225.9	1233.6	1231.8	1223.0	1192.8
50°	1169.4	1173.5	1190.4	1213.3	1239.9	1265.9	1290.4	1308.7	1314.8	1310.9	1283.3
52.5°	1173.9	1180.9	1200.9	1231.4	1266.2	1301.6	1336.5	1367.3	1388.3	1391.5	1371.0
55°	1109.0	1116.1	1143.5	1188.9	1240.6	1298.5	1354.3	1406.2	1447.4	1468.5	1457.8
57.5°	956.1	968.6	997.5	1050.7	1126.7	1213.3	1302.3	1394.6	1478.5	1534.6	1545.4
60°	732.7	747.5	776.7	833.3	917.9	1021.2	1139.9	1276.5	1424.6	1550.6	1625.8
62.5°	470.1	483.9	514.5	563.9	632.8	744.8	872.2	1034.3	1233.4	1432.3	1611.4
65°	241.6	249.2	265.2	295.1	348.7	432.4	546.7	708.5	936.0	1181.5	1440.5
67.5°	153.0	154.5	158.1	162.4	176.1	205.1	258.3	359.1	546.3	802.2	1105.5
70°	132.3	132.3	130.7	130.0	131.6	135.6	143.9	167.4	230.5	380.8	637.5
72.5°	121.1	119.8	116.9	114.5	114.2	114.2	115.8	119.5	129.5	155.0	249.5
75°	111.6	107.9	103.9	101.1	100.3	99.2	99.0	99.5	101.7	105.7	119.1
77.5°	99.9	95.3	90.6	87.9	86.6	85.2	83.9	82.5	81.3	82.6	88.6
80°	86.0	80.8	77.2	75.5	74.2	72.0	69.3	66.7	64.5	64.0	67.6
82.5°	69.3	63.2	63.4	64.0	61.8	58.7	55.8	53.0	49.0	46.9	49.0
85°	56.1	52.8	51.4	55.3	52.0	47.5	42.8	38.1	31.7	26.6	28.9
87.5°	21.7	21.7	32.6	50.0	45.0	36.8	31.5	26.8	16.7	12.8	13.1
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: P268983

CATALOG NUMBER: GLEON-AF-01-LED-E1-RW-7027-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	496.0	496.0	496.0	496.0	496.0	496.0	496.0	496.0
2.5°	496.9	497.3	497.0	496.9	496.9	496.7	496.9	496.9
5°	500.6	501.8	501.8	502.2	502.2	502.3	502.5	502.3
7.5°	506.4	508.4	509.5	511.0	511.2	511.5	511.9	511.5
10°	512.0	515.8	518.6	521.3	522.6	523.1	523.5	523.5
12.5°	519.3	524.5	529.5	534.2	536.6	537.8	537.8	538.8
15°	531.1	536.4	542.0	548.7	552.6	554.8	555.4	555.4
17.5°	547.7	552.5	557.3	563.6	568.6	571.4	572.1	572.0
20°	567.2	571.7	574.5	578.4	582.9	586.1	587.0	587.0
22.5°	589.4	592.0	592.4	593.6	597.3	601.4	603.4	603.8
25°	613.9	614.6	612.9	612.9	615.2	619.2	621.1	621.4
27.5°	645.6	642.5	638.2	636.8	638.2	642.8	645.3	646.1
30°	685.1	677.5	667.8	662.5	661.7	667.8	672.0	672.7
32.5°	730.4	719.5	706.4	695.6	693.0	696.7	701.8	701.7
35°	784.1	770.9	755.4	741.6	735.3	739.0	746.2	747.1
37.5°	845.9	828.9	810.9	793.6	783.6	784.7	792.3	794.8
40°	915.2	892.8	870.3	847.0	832.9	830.2	839.5	841.0
42.5°	989.0	960.5	932.0	903.2	885.1	880.9	891.7	890.9
45°	1067.8	1031.6	998.1	966.4	944.8	938.5	947.4	947.4
47.5°	1152.6	1107.8	1068.1	1032.2	1008.6	999.6	1008.1	1008.6
50°	1242.4	1194.8	1148.3	1108.2	1080.1	1068.5	1079.6	1081.2
52.5°	1331.8	1285.6	1238.5	1192.8	1158.8	1144.6	1157.2	1162.8
55°	1422.5	1377.1	1332.0	1287.5	1247.0	1230.4	1244.0	1250.9
57.5°	1518.2	1476.2	1433.2	1388.3	1349.3	1323.5	1337.8	1347.1
60°	1630.5	1594.5	1549.9	1500.3	1461.0	1434.6	1442.8	1451.0
62.5°	1719.3	1733.2	1695.3	1637.9	1587.3	1553.6	1561.6	1570.2
65°	1676.3	1819.3	1853.1	1795.0	1724.9	1672.4	1669.0	1673.4
67.5°	1401.1	1679.1	1881.7	1937.1	1878.5	1805.5	1791.8	1798.4
70°	937.3	1283.5	1641.1	1907.3	1978.1	1949.9	1936.4	1940.5
72.5°	450.1	747.5	1113.3	1467.3	1682.9	1781.8	1813.5	1828.9
75°	164.6	296.7	536.6	808.6	976.2	1130.0	1230.4	1271.5
77.5°	99.4	119.8	171.3	258.1	292.3	327.2	313.6	320.3
80°	73.5	83.1	94.1	105.7	109.5	109.5	105.2	101.9
82.5°	51.6	57.8	63.1	69.3	71.0	67.8	55.8	44.3
85°	33.1	35.9	38.3	42.3	41.2	39.3	26.4	23.4
87.5°	15.2	17.3	18.1	20.1	19.3	18.3	13.1	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)