

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: P319485

Luminaire Tested: **GLEON-SA1C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5333 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

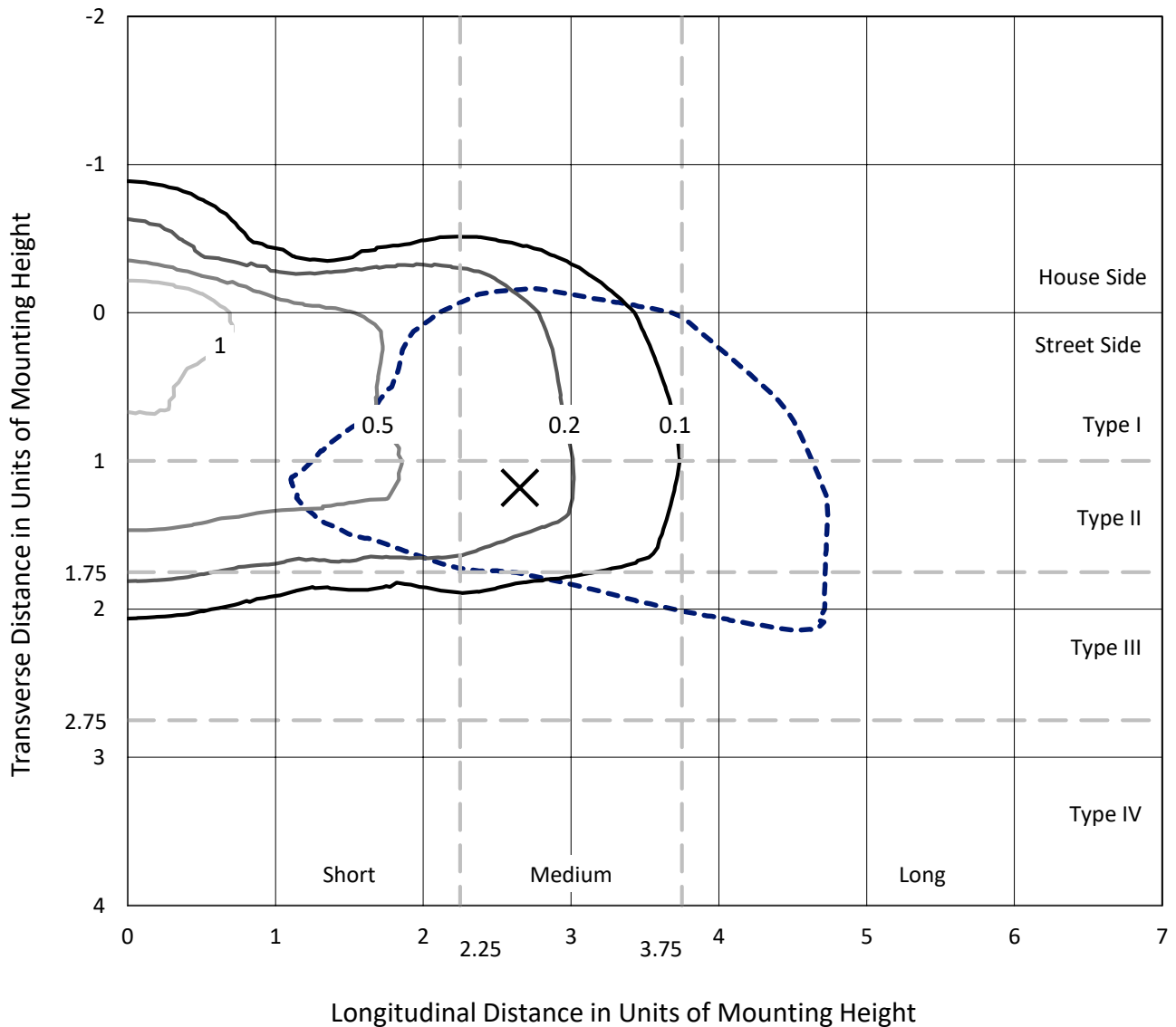
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319485
 CATALOG NUMBER: GLEON-SA1C-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

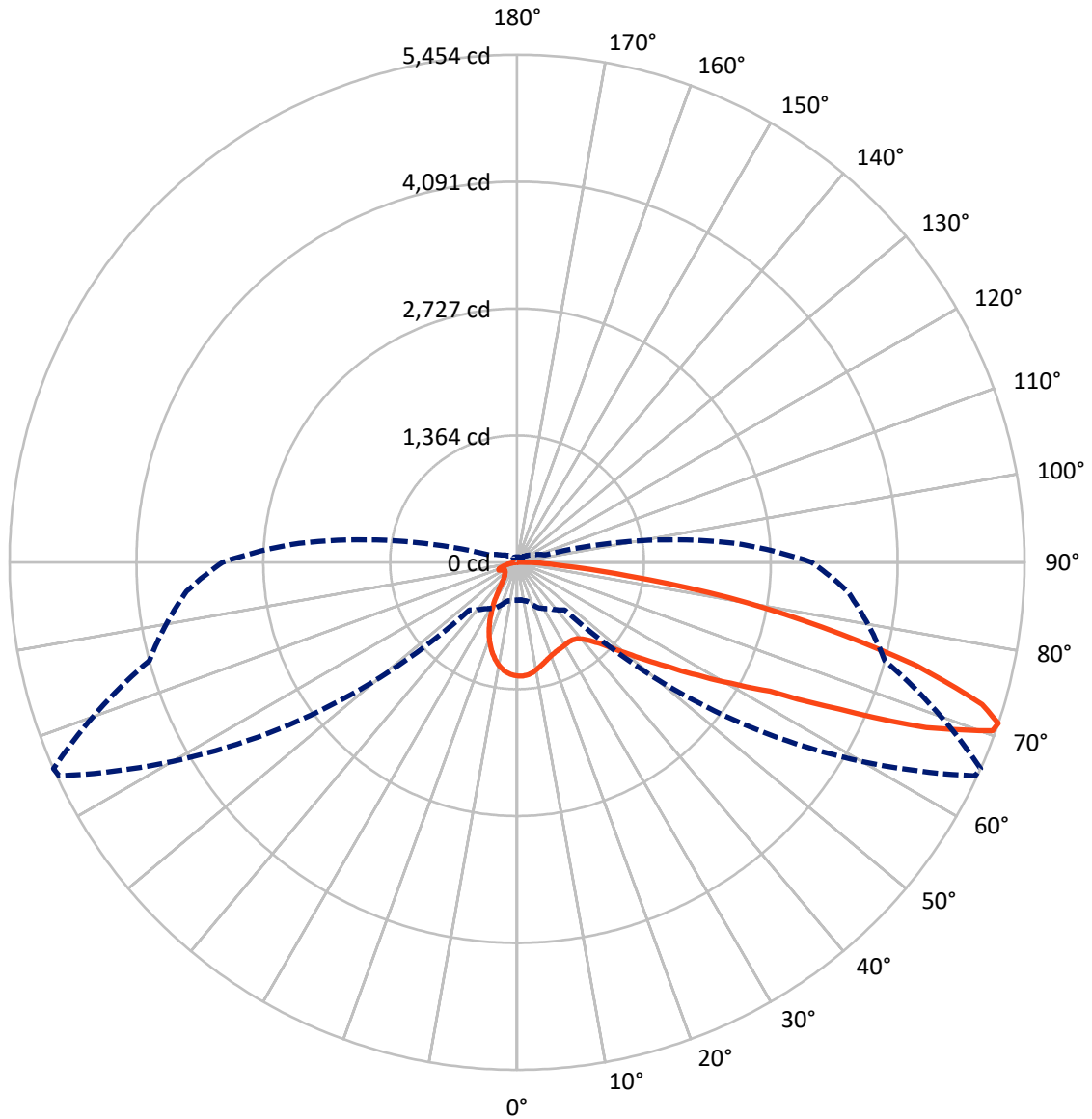
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GLEON-SA1C-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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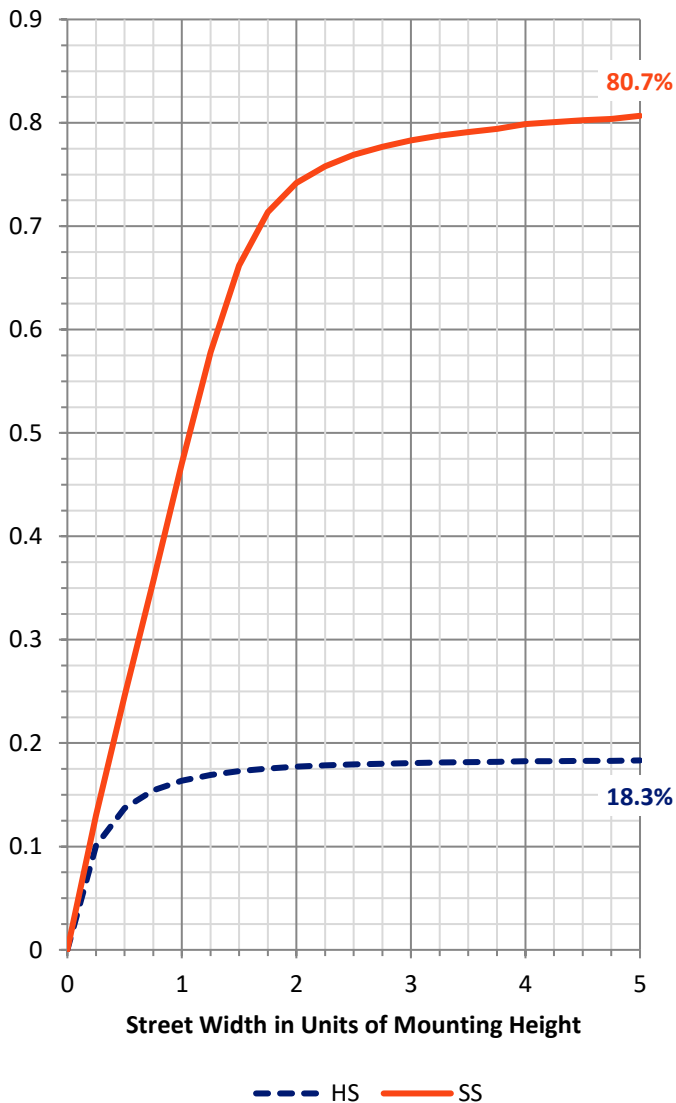
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	988.4	0.0	988.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	4344.6	0.0	4344.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	5333.0	0.0	5333.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	2.0
10°-20°	257.9	4.8
20°-30°	346.5	6.5
30°-40°	455.8	8.5
40°-50°	663.0	12.4
50°-60°	1035.7	19.4
60°-70°	1297.4	24.3
70°-80°	989.6	18.6
80°-90°	179.7	3.4
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°	5333.0	100.0
0°-180°	5333.0	100.0

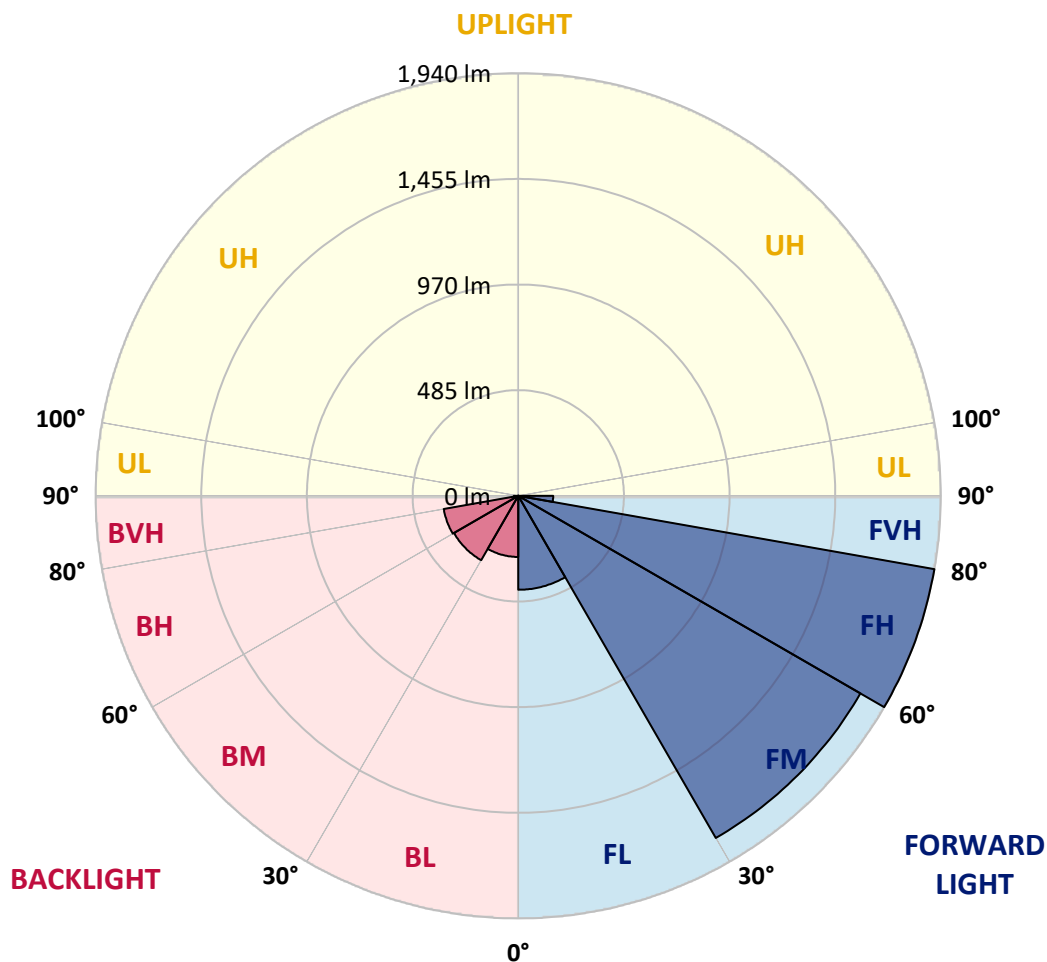


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.2	8.1			
FM (30°-60°)	1813.5	34.0			
FH (60°-80°)	1939.7	36.4			G2/5000
FVH (80°-90°)	160.2	3.0			G2/225
BL (0°-30°)	280.7	5.3	B1/500		
BM (30°-60°)	341.0	6.4	B1/1000		
BH (60°-80°)	347.3	6.5	B1/500		G1/500
BVH (80°-90°)	19.5	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7
2.5°	1199.0	1197.2	1202.7	1208.4	1210.6	1214.3	1219.8	1223.0	1222.8	1223.3	1221.5
5°	1119.5	1117.1	1128.2	1137.2	1154.5	1174.0	1197.8	1214.7	1215.1	1224.6	1227.2
7.5°	1044.2	1042.5	1055.2	1069.8	1089.9	1119.7	1158.2	1194.6	1196.8	1222.8	1231.8
10°	983.8	983.4	995.8	1011.6	1035.0	1068.3	1112.5	1165.9	1169.2	1214.0	1232.6
12.5°	936.7	937.4	948.1	966.1	990.8	1025.6	1073.5	1133.7	1139.0	1200.0	1228.3
15°	901.9	904.8	913.5	931.7	956.0	991.3	1040.5	1103.8	1111.9	1184.3	1225.9
17.5°	882.0	885.3	891.4	906.5	929.3	963.4	1009.9	1079.4	1086.7	1172.3	1226.1
20°	876.1	878.8	882.3	891.5	910.9	941.8	985.8	1057.3	1065.2	1162.8	1227.9
22.5°	887.7	889.7	890.1	889.3	901.1	926.3	968.3	1041.1	1049.5	1156.5	1229.2
25°	912.5	915.3	913.3	906.5	902.6	918.1	959.3	1030.4	1038.8	1151.9	1226.7
27.5°	949.9	950.3	948.6	939.8	921.6	919.0	956.5	1024.1	1032.2	1146.6	1221.3
30°	1000.7	1003.1	1000.2	988.2	958.4	933.7	959.9	1018.0	1025.4	1139.8	1212.7
32.5°	1060.2	1066.1	1065.9	1053.4	1010.7	966.7	973.5	1014.4	1020.1	1132.6	1202.2
35°	1121.9	1130.0	1145.1	1139.8	1086.9	1018.8	999.6	1020.3	1024.1	1131.6	1194.8
37.5°	1186.0	1194.1	1225.2	1239.5	1177.7	1093.4	1040.9	1041.1	1042.9	1142.9	1194.3
40°	1253.0	1261.6	1308.4	1345.8	1295.3	1187.8	1107.3	1084.5	1082.5	1170.5	1205.1
42.5°	1346.9	1354.6	1410.8	1458.5	1425.9	1308.8	1199.2	1151.5	1147.3	1224.6	1239.9
45°	1465.7	1472.3	1531.9	1582.9	1566.2	1446.9	1314.7	1243.8	1243.0	1314.9	1310.4
47.5°	1606.9	1612.0	1665.6	1715.0	1721.0	1605.8	1459.8	1386.1	1374.1	1438.6	1419.6
50°	1754.0	1759.7	1796.2	1849.2	1894.3	1818.4	1646.5	1560.5	1544.5	1601.9	1574.3
52.5°	1851.4	1859.0	1890.6	1957.8	2089.1	2051.6	1867.2	1771.9	1747.6	1799.8	1778.7
55°	1807.9	1824.9	1873.3	1981.0	2244.9	2407.7	2139.6	2018.4	1991.0	2034.4	2021.9
57.5°	1610.4	1633.6	1699.7	1865.9	2266.8	2721.4	2551.3	2308.8	2289.4	2276.9	2282.6
60°	1249.3	1271.6	1353.5	1570.2	2114.2	2950.5	3170.9	2666.7	2638.7	2520.3	2525.5
62.5°	884.2	872.9	929.1	1087.6	1717.9	2977.3	3875.9	3145.5	3053.4	2777.4	2754.7
65°	674.3	671.7	696.9	747.4	1040.5	2655.7	4295.9	3950.1	3806.3	3079.7	3026.3
67.5°	554.0	549.4	574.3	647.8	670.0	1713.3	4305.1	4883.6	4742.4	3456.1	3340.4
70°	455.5	450.4	473.6	568.4	619.2	868.9	3623.3	5430.3	5422.7	3932.6	3577.6
71°	408.4	404.7	432.5	537.8	608.4	724.2	3128.3	5431.8	5454.4	4093.9	3563.6
72.5°	332.5	333.8	363.3	478.7	600.3	639.5	2299.2	5178.6	5226.5	4247.6	3436.4
75°	221.0	222.1	260.7	368.3	582.0	625.7	1263.7	4345.4	4433.4	4155.6	3135.7
77.5°	148.4	148.0	174.4	252.6	507.1	625.7	740.9	3250.0	3346.7	3306.6	2417.4
80°	102.2	101.5	120.1	174.4	383.9	633.2	572.8	2277.7	2306.9	1785.7	982.5
82.5°	62.6	63.2	78.4	123.2	261.3	569.9	540.8	1241.9	1210.1	500.8	245.4
85°	35.9	35.7	50.1	83.4	167.7	480.9	527.3	534.5	490.3	150.8	88.7
87.5°	12.9	13.8	26.9	46.2	96.1	334.9	447.4	278.0	250.6	68.1	40.1
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: P319485
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7	1221.7
2.5°	1220.2	1221.3	1220.0	1212.7	1206.4	1196.3	1190.6	1182.7	1180.3	1179.2	1182.1
5°	1224.8	1225.2	1214.3	1195.0	1173.3	1147.7	1129.3	1106.6	1095.9	1091.3	1094.3
7.5°	1229.1	1227.4	1203.6	1166.6	1126.5	1081.9	1042.3	1006.1	984.9	976.2	977.0
10°	1229.6	1222.6	1184.5	1127.2	1065.0	999.6	938.9	882.9	847.5	824.5	831.5
12.5°	1223.9	1212.1	1156.3	1076.2	989.9	900.8	818.6	734.7	684.2	660.8	661.6
15°	1219.5	1198.1	1121.7	1016.2	900.2	782.2	670.0	571.3	517.6	493.6	482.4
17.5°	1215.8	1183.0	1081.6	948.6	794.3	644.6	509.8	421.8	392.4	385.4	382.4
20°	1210.6	1167.0	1036.8	870.4	673.7	490.7	372.3	328.9	329.0	337.1	338.2
22.5°	1203.5	1148.8	989.1	782.5	544.3	357.4	291.8	279.3	292.0	307.5	310.3
25°	1192.8	1127.2	936.1	685.5	415.0	274.7	249.3	248.8	264.2	280.4	282.8
27.5°	1177.7	1099.1	877.2	581.3	305.8	233.5	223.3	227.2	238.6	250.4	251.3
30°	1157.4	1066.3	812.2	471.4	239.7	207.9	206.8	210.3	217.3	225.6	226.3
32.5°	1135.1	1033.0	742.8	364.9	205.3	194.1	195.2	196.8	200.1	203.5	204.2
35°	1114.9	998.9	671.7	277.3	188.9	185.0	184.3	183.9	184.3	183.2	183.4
37.5°	1101.8	970.7	597.7	220.8	179.5	177.1	174.9	172.2	169.0	167.2	167.6
40°	1097.0	949.7	522.7	190.8	171.8	170.1	165.9	160.0	156.3	155.2	155.2
42.5°	1109.9	938.9	450.4	175.7	165.3	162.6	155.6	148.8	146.0	145.8	145.6
45°	1149.3	943.3	381.5	167.4	159.5	154.1	144.9	139.2	137.4	137.7	137.5
47.5°	1220.0	971.1	322.6	161.8	153.6	146.6	136.3	131.7	129.4	129.4	129.6
50°	1340.3	1036.1	275.6	157.2	148.6	139.6	130.0	124.3	121.3	121.2	121.2
52.5°	1515.4	1152.5	246.4	153.4	143.1	133.3	123.7	116.6	113.1	112.3	111.9
55°	1734.9	1319.3	238.3	150.8	135.7	126.5	116.2	109.0	105.1	103.5	103.3
57.5°	1980.3	1522.2	254.3	147.7	128.2	118.4	107.9	101.1	97.0	95.0	94.8
60°	2228.7	1743.7	319.6	143.3	121.9	109.6	99.4	93.2	89.1	86.9	86.5
62.5°	2477.4	1977.2	453.1	142.9	117.5	101.1	90.8	85.4	81.6	79.2	78.6
65°	2758.0	2232.7	604.9	152.6	116.0	93.4	81.9	77.7	74.4	72.2	72.0
67.5°	3080.3	2521.3	590.3	172.7	121.0	86.4	73.7	70.3	67.9	66.1	65.9
70°	3231.4	2476.1	367.0	186.9	128.0	79.5	65.7	63.3	61.5	60.2	59.7
71°	3168.1	2351.1	307.7	185.2	127.2	76.6	62.6	60.8	58.9	57.8	57.3
72.5°	2995.4	2144.2	256.7	172.3	118.9	71.3	58.6	56.7	55.1	53.8	53.4
75°	2687.9	1914.9	205.5	137.7	94.8	60.2	51.4	49.3	48.1	47.3	46.6
77.5°	1975.9	1366.6	158.9	108.8	69.8	49.2	43.8	42.3	41.1	40.0	39.4
80°	756.9	529.4	107.0	81.2	51.2	38.9	35.4	34.6	33.3	32.6	32.6
82.5°	203.8	158.2	57.1	49.2	34.2	28.4	27.1	26.7	25.6	24.1	24.3
85°	82.5	69.8	32.0	27.1	21.0	16.8	18.2	18.4	17.1	15.3	15.5
87.5°	36.3	29.6	17.9	12.0	9.2	6.4	8.3	8.3	7.5	6.3	5.7
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)