

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: P319495

Luminaire Tested: **GLEON-SA1D-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319495  
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-SA1D-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA 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: 5850 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

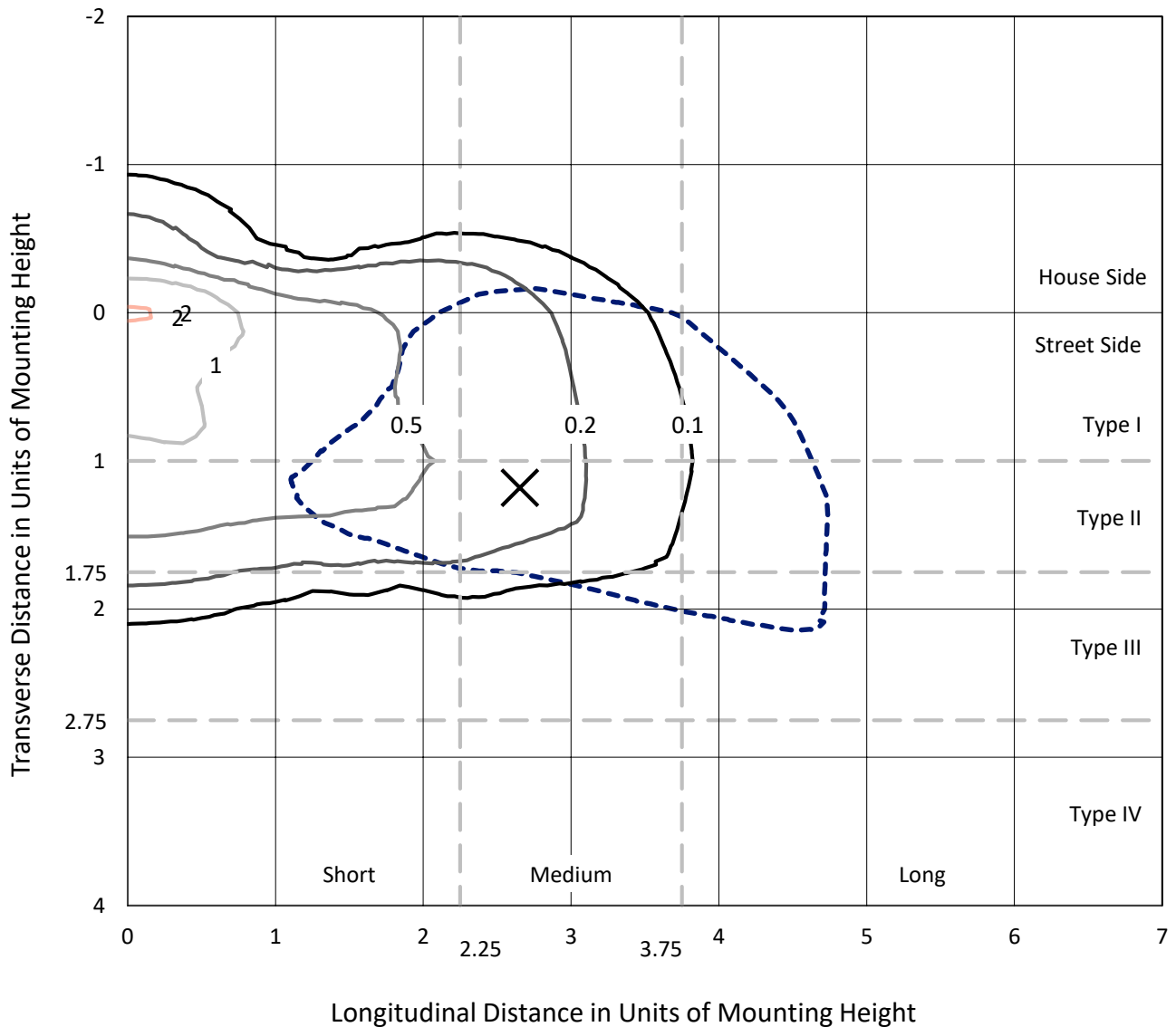
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

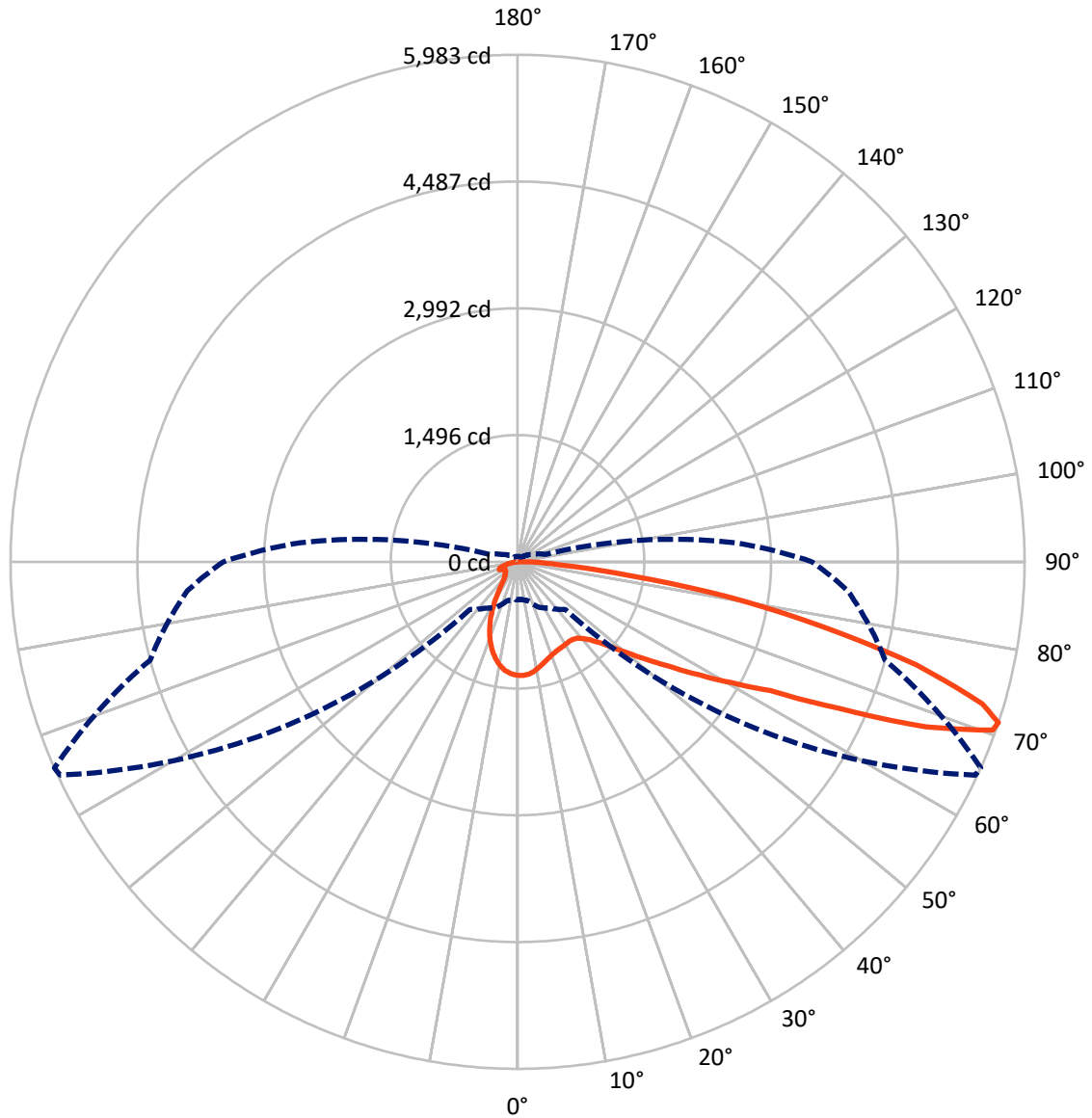
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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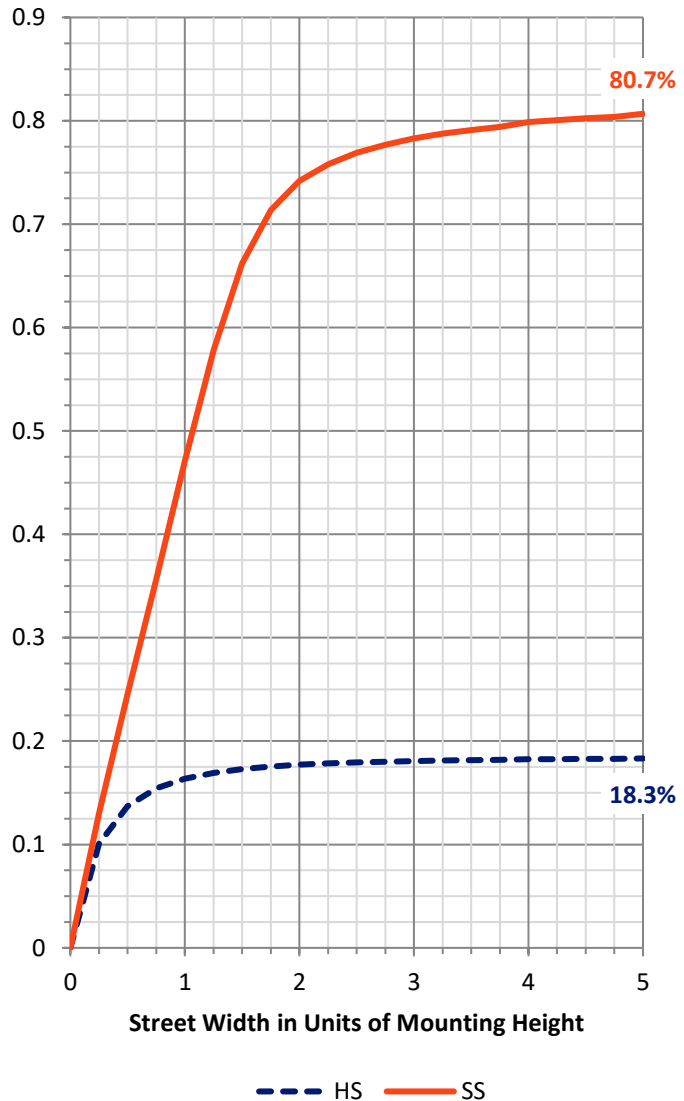
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1084.2	0.0	1084.2
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	4765.8	0.0	4765.8
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	5850.0	0.0	5850.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	2.0
10°-20°	282.9	4.8
20°-30°	380.0	6.5
30°-40°	499.9	8.5
40°-50°	727.3	12.4
50°-60°	1136.1	19.4
60°-70°	1423.1	24.3
70°-80°	1085.5	18.6
80°-90°	197.1	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°	5850.0	100.0
0°-180°	5850.0	100.0

**Coefficient of Utilization**

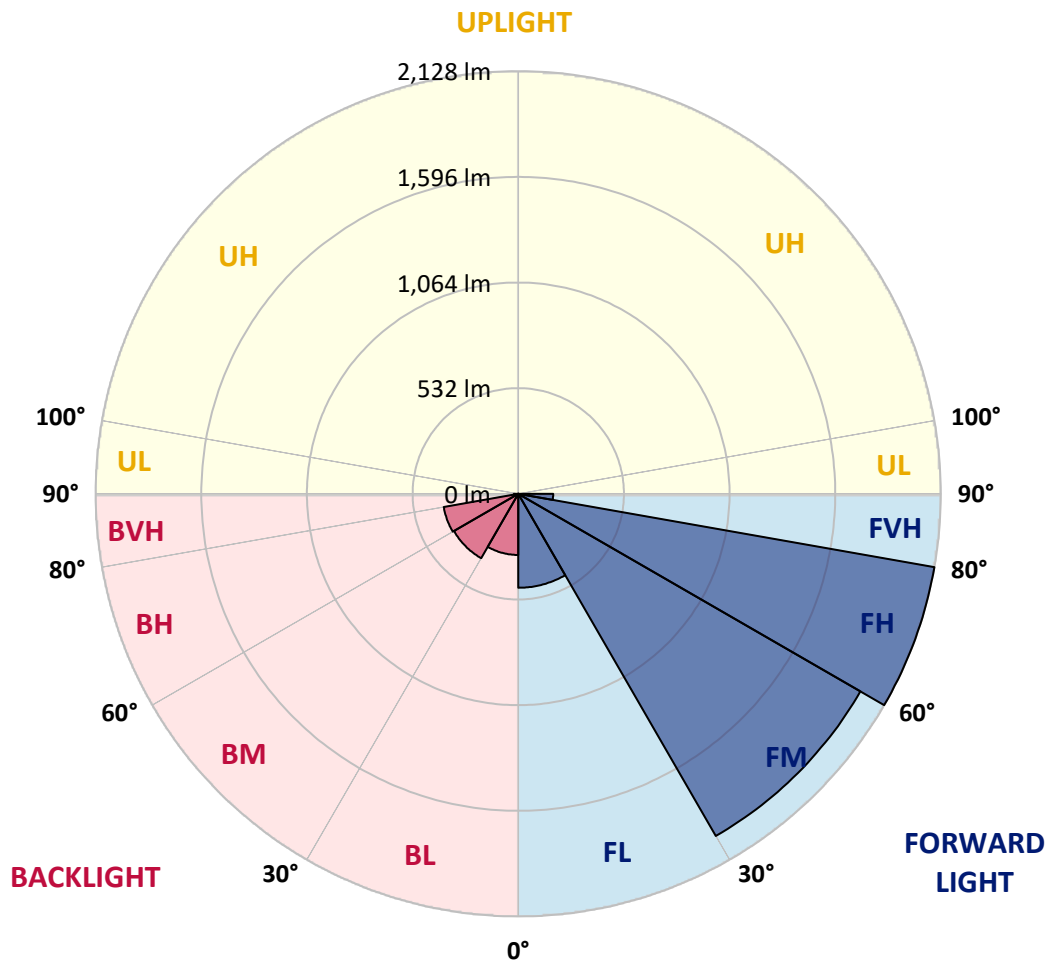


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.1	8.1			
FM (30°-60°)	1989.3	34.0			
FH (60°-80°)	2127.7	36.4			G2/5000
FVH (80°-90°)	175.8	3.0			G2/225
BL (0°-30°)	307.9	5.3	B1/500		
BM (30°-60°)	374.0	6.4	B1/1000		
BH (60°-80°)	381.0	6.5	B1/500		G1/500
BVH (80°-90°)	21.3	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°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1315.3	1313.3	1319.3	1325.6	1328.0	1332.0	1338.1	1341.5	1341.3	1341.9	1339.9
5°	1228.0	1225.4	1237.5	1247.4	1266.4	1287.8	1313.9	1332.4	1332.9	1343.4	1346.2
7.5°	1145.4	1143.6	1157.5	1173.5	1195.5	1228.2	1270.4	1310.4	1312.9	1341.3	1351.2
10°	1079.2	1078.8	1092.3	1109.7	1135.3	1171.9	1220.3	1278.9	1282.6	1331.6	1352.0
12.5°	1027.5	1028.3	1040.0	1059.8	1086.8	1125.0	1177.5	1243.6	1249.4	1316.3	1347.4
15°	989.3	992.5	1002.0	1022.0	1048.7	1087.4	1141.4	1210.9	1219.7	1299.1	1344.8
17.5°	967.5	971.1	977.8	994.3	1019.4	1056.7	1107.8	1184.0	1192.1	1286.0	1345.0
20°	961.0	964.0	967.9	978.0	999.2	1033.1	1081.4	1159.8	1168.4	1275.5	1347.0
22.5°	973.7	976.0	976.4	975.6	988.5	1016.1	1062.2	1142.0	1151.3	1268.6	1348.4
25°	1001.0	1004.0	1001.8	994.3	990.1	1007.1	1052.3	1130.3	1139.6	1263.6	1345.6
27.5°	1042.0	1042.4	1040.6	1030.9	1010.9	1008.1	1049.3	1123.4	1132.3	1257.7	1339.7
30°	1097.7	1100.4	1097.1	1084.0	1051.3	1024.2	1052.9	1116.7	1124.8	1250.2	1330.2
32.5°	1163.0	1169.5	1169.2	1155.5	1108.7	1060.4	1067.9	1112.7	1119.0	1242.4	1318.7
35°	1230.6	1239.5	1256.1	1250.2	1192.3	1117.5	1096.5	1119.2	1123.4	1241.4	1310.6
37.5°	1300.9	1309.8	1344.0	1359.7	1291.8	1199.3	1141.8	1142.0	1144.0	1253.7	1310.0
40°	1374.5	1384.0	1435.3	1476.3	1420.9	1303.0	1214.7	1189.6	1187.4	1284.0	1321.9
42.5°	1477.5	1485.9	1547.6	1599.9	1564.1	1435.7	1315.5	1263.2	1258.5	1343.4	1360.1
45°	1607.7	1615.0	1680.5	1736.4	1718.0	1587.1	1442.1	1364.4	1363.6	1442.3	1437.5
47.5°	1762.7	1768.3	1827.1	1881.2	1887.9	1761.4	1601.3	1520.5	1507.4	1578.1	1557.2
50°	1924.0	1930.3	1970.3	2028.5	2077.9	1994.7	1806.1	1711.8	1694.2	1757.2	1726.9
52.5°	2030.9	2039.2	2073.9	2147.6	2291.6	2250.4	2048.3	1943.6	1917.0	1974.3	1951.1
55°	1983.2	2001.8	2054.9	2173.1	2462.5	2641.1	2347.0	2214.1	2184.0	2231.7	2217.9
57.5°	1766.5	1791.9	1864.5	2046.8	2486.5	2985.2	2798.6	2532.6	2511.4	2497.7	2503.9
60°	1370.4	1394.9	1484.7	1722.5	2319.1	3236.5	3478.3	2925.2	2894.5	2764.7	2770.3
62.5°	969.9	957.6	1019.2	1193.1	1884.5	3266.0	4251.6	3450.4	3349.4	3046.6	3021.8
65°	739.6	736.8	764.5	819.8	1141.4	2913.1	4712.3	4333.0	4175.3	3378.3	3319.7
67.5°	607.8	602.7	630.0	710.6	735.0	1879.4	4722.4	5357.1	5202.1	3791.1	3664.3
70°	499.7	494.0	519.5	623.5	679.3	953.1	3974.5	5956.7	5948.4	4313.8	3924.4
71°	448.0	443.9	474.4	590.0	667.3	794.4	3431.6	5958.3	5983.2	4490.8	3909.1
72.5°	364.8	366.2	398.5	525.1	658.4	701.5	2522.1	5680.6	5733.1	4659.4	3769.5
75°	242.4	243.6	286.0	404.0	638.5	686.3	1386.2	4766.7	4863.2	4558.4	3439.7
77.5°	162.8	162.4	191.3	277.1	556.2	686.3	812.8	3565.1	3671.1	3627.1	2651.8
80°	112.1	111.3	131.7	191.3	421.1	694.6	628.4	2498.5	2530.6	1958.8	1077.8
82.5°	68.7	69.3	86.0	135.1	286.6	625.1	593.2	1362.3	1327.4	549.4	269.2
85°	39.4	39.2	54.9	91.5	184.0	527.6	578.5	586.3	537.9	165.4	97.4
87.5°	14.1	15.1	29.5	50.7	105.4	367.4	490.8	305.0	274.9	74.7	44.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1338.5	1339.7	1338.3	1330.2	1323.4	1312.2	1306.0	1297.3	1294.7	1293.5	1296.7
5°	1343.6	1344.0	1332.0	1310.8	1287.0	1258.9	1238.7	1213.9	1202.2	1197.1	1200.4
7.5°	1348.2	1346.4	1320.3	1279.7	1235.7	1186.8	1143.4	1103.6	1080.4	1070.9	1071.7
10°	1348.8	1341.1	1299.3	1236.5	1168.2	1096.5	1029.9	968.5	929.7	904.5	912.1
12.5°	1342.5	1329.6	1268.4	1180.6	1085.8	988.1	898.0	805.9	750.5	724.9	725.7
15°	1337.7	1314.3	1230.4	1114.7	987.5	858.0	735.0	626.7	567.8	541.5	529.2
17.5°	1333.7	1297.7	1186.4	1040.6	871.3	707.1	559.3	462.7	430.4	422.7	419.5
20°	1328.0	1280.1	1137.3	954.7	739.0	538.3	408.4	360.7	360.9	369.8	371.0
22.5°	1320.1	1260.1	1085.0	858.4	597.0	392.0	320.1	306.4	320.3	337.3	340.3
25°	1308.4	1236.5	1026.9	752.0	455.3	301.4	273.5	272.9	289.8	307.6	310.2
27.5°	1291.8	1205.6	962.2	637.6	335.5	256.1	245.0	249.2	261.8	274.7	275.7
30°	1269.6	1169.7	890.9	517.1	263.0	228.0	226.8	230.7	238.3	247.4	248.2
32.5°	1245.2	1133.1	814.8	400.3	225.2	212.9	214.1	215.9	219.5	223.2	224.0
35°	1223.0	1095.7	736.8	304.2	207.2	203.0	202.2	201.8	202.2	201.0	201.2
37.5°	1208.6	1064.8	655.6	242.2	196.9	194.3	191.9	188.8	185.4	183.4	183.8
40°	1203.4	1041.8	573.4	209.2	188.4	186.6	182.0	175.5	171.5	170.3	170.3
42.5°	1217.5	1029.9	494.0	192.7	181.4	178.3	170.7	163.2	160.2	160.0	159.8
45°	1260.7	1034.7	418.5	183.6	174.9	169.1	159.0	152.7	150.7	151.1	150.9
47.5°	1338.3	1065.2	353.9	177.5	168.4	160.8	149.5	144.4	142.0	142.0	142.2
50°	1470.2	1136.5	302.4	172.5	163.0	153.1	142.6	136.3	133.1	132.9	132.9
52.5°	1662.3	1264.2	270.2	168.2	156.9	146.2	135.7	127.9	124.0	123.2	122.8
55°	1903.0	1447.2	261.4	165.4	148.9	138.8	127.4	119.6	115.3	113.5	113.3
57.5°	2172.3	1669.7	278.9	162.0	140.6	129.9	118.4	110.9	106.4	104.2	104.0
60°	2444.7	1912.7	350.6	157.1	133.7	120.2	109.1	102.2	97.8	95.3	94.9
62.5°	2717.6	2168.8	497.1	156.7	128.9	110.9	99.6	93.7	89.5	86.9	86.2
65°	3025.4	2449.2	663.5	167.4	127.2	102.4	89.9	85.2	81.6	79.2	79.0
67.5°	3378.9	2765.7	647.5	189.5	132.7	94.7	80.8	77.2	74.5	72.5	72.3
70°	3544.7	2716.2	402.5	205.0	140.4	87.3	72.1	69.5	67.5	66.0	65.4
71°	3475.2	2579.1	337.5	203.2	139.6	84.0	68.7	66.7	64.6	63.4	62.8
72.5°	3285.8	2352.0	281.6	189.1	130.5	78.2	64.2	62.2	60.4	59.0	58.6
75°	2948.5	2100.6	225.4	151.1	104.0	66.0	56.4	54.1	52.7	51.9	51.1
77.5°	2167.4	1499.1	174.3	119.4	76.5	53.9	48.1	46.5	45.0	43.8	43.2
80°	830.3	580.7	117.3	89.1	56.1	42.6	38.8	38.0	36.6	35.8	35.8
82.5°	223.6	173.5	62.6	53.9	37.6	31.1	29.7	29.3	28.1	26.5	26.7
85°	90.5	76.5	35.1	29.7	23.0	18.4	20.0	20.2	18.8	16.8	17.0
87.5°	39.8	32.5	19.6	13.1	10.1	7.1	9.1	9.1	8.3	6.9	6.3
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)