

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: P317866

Luminaire Tested: **GLEON-SA2A-827-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2A-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7167 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

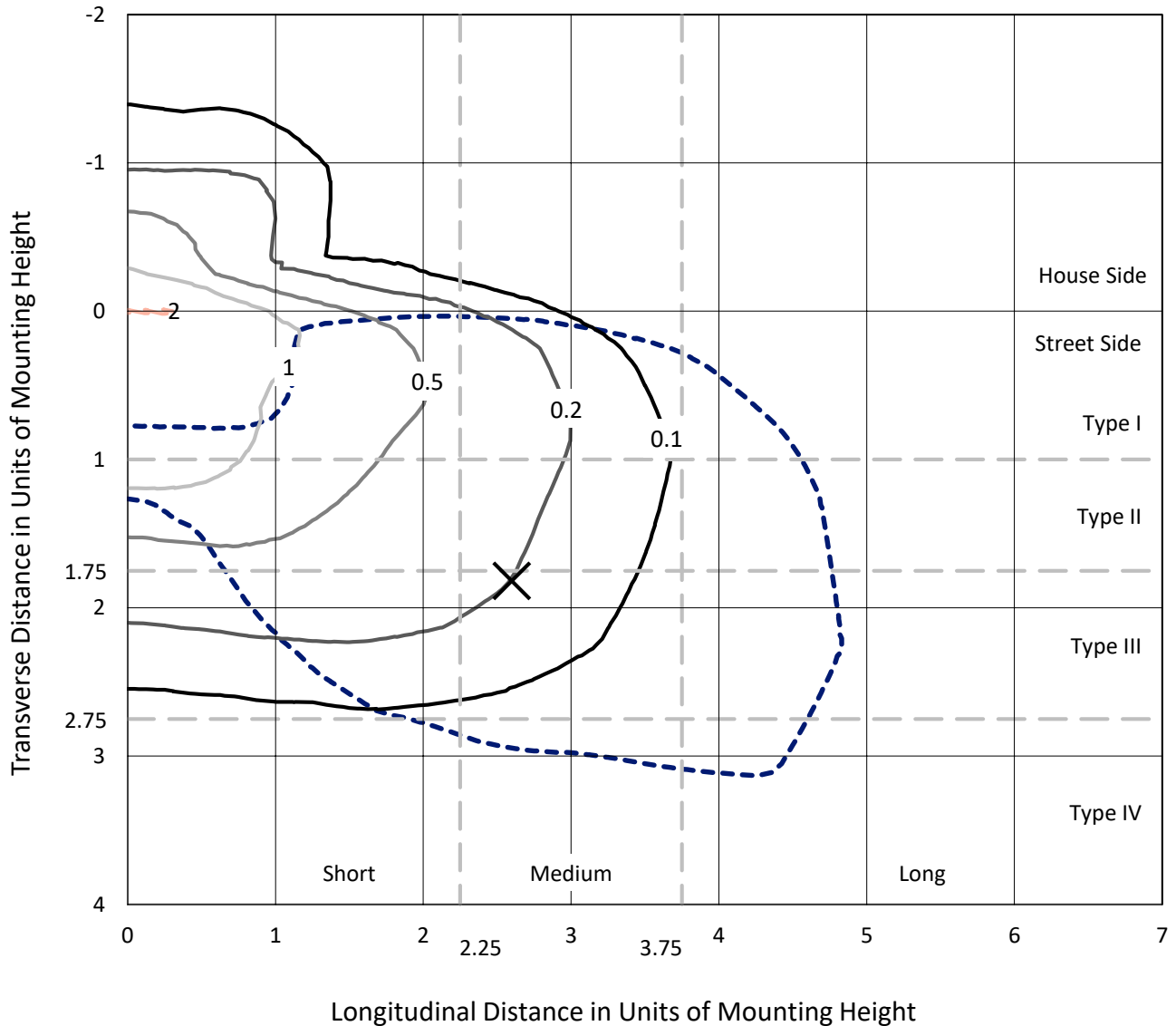
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

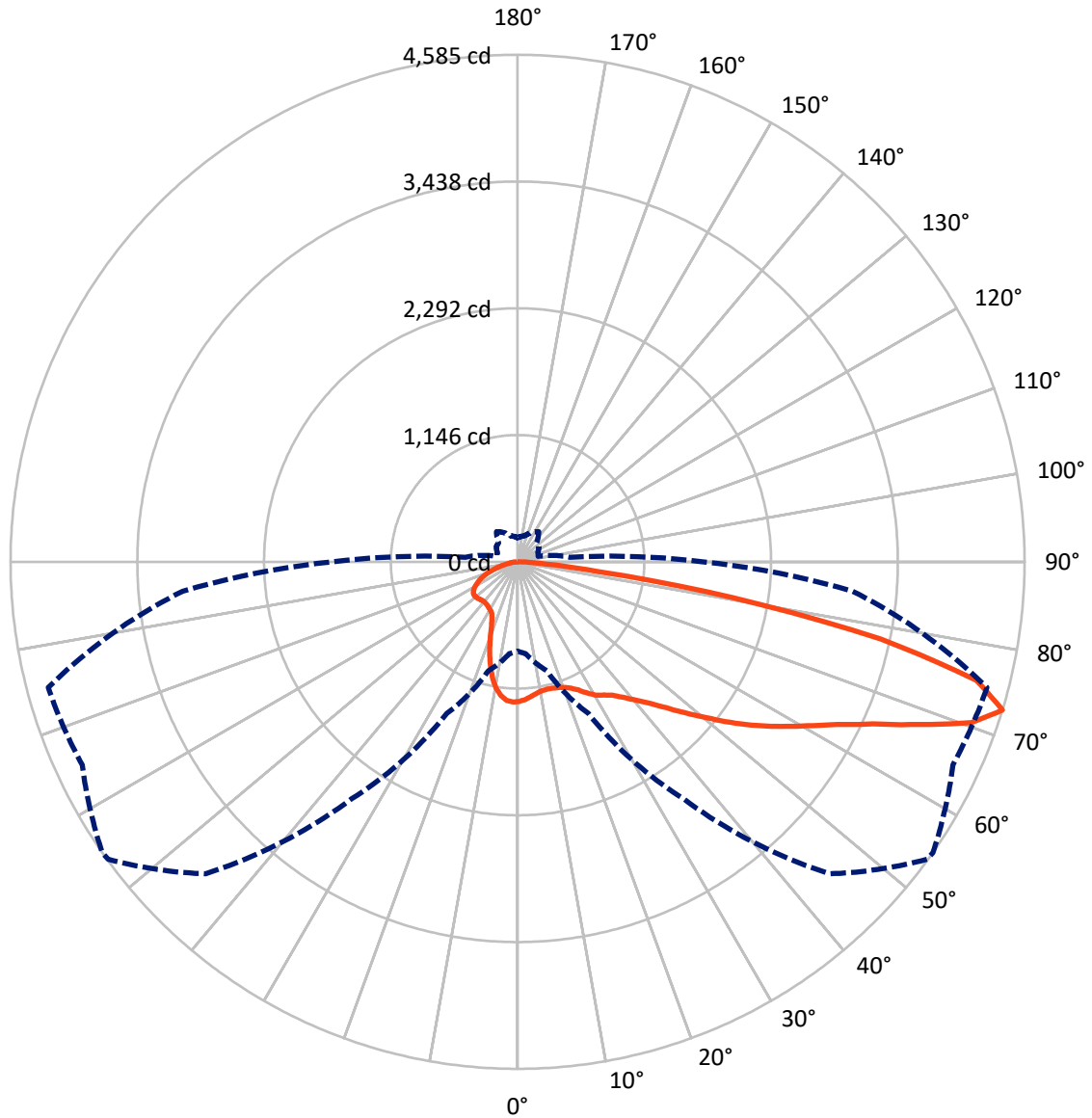
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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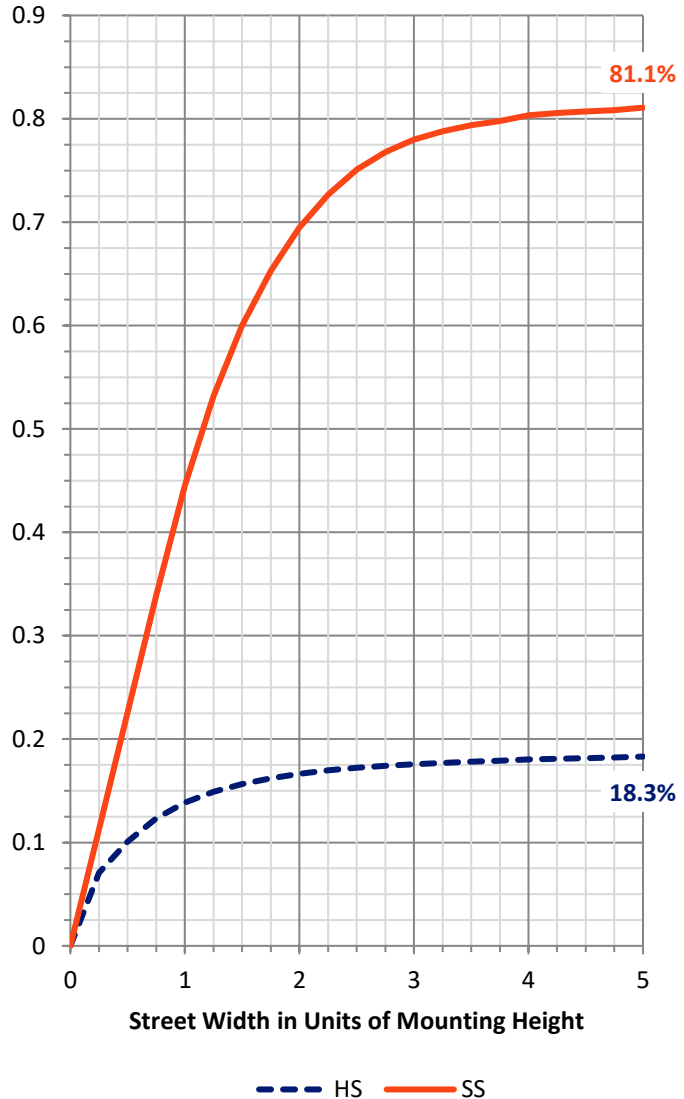
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1332.1	0.0	1332.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	5834.9	0.0	5834.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	7167.0	0.0	7167.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.4	1.6
10°-20°	304.5	4.2
20°-30°	502.1	7.0
30°-40°	742.7	10.4
40°-50°	1036.7	14.5
50°-60°	1349.8	18.8
60°-70°	1658.9	23.1
70°-80°	1300.4	18.1
80°-90°	157.4	2.2
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°	7167.0	100.0
0°-180°	7167.0	100.0

**Coefficient of Utilization**

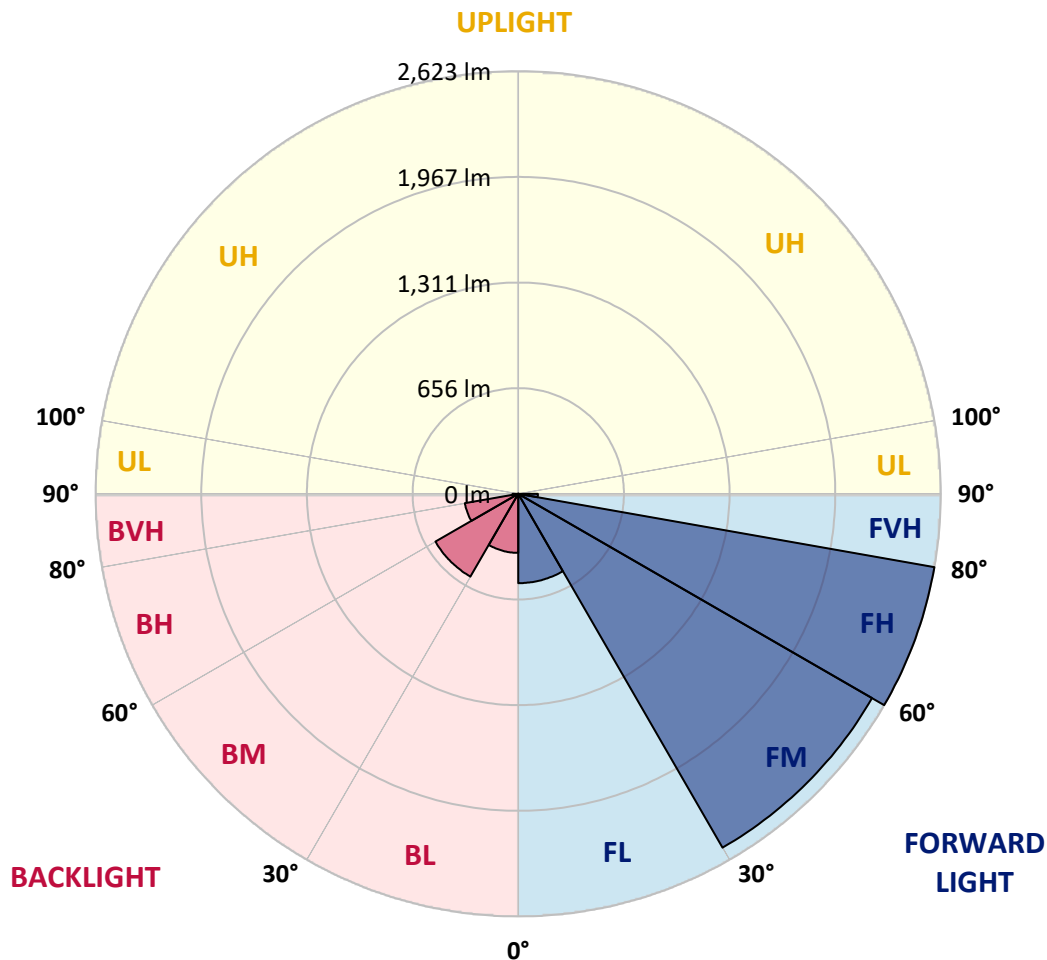


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.5	7.7			
FM (30°-60°)	2535.8	35.4			
FH (60°-80°)	2622.9	36.6			G2/5000
FVH (80°-90°)	121.7	1.7			G2/225
BL (0°-30°)	366.5	5.1	B1/500		
BM (30°-60°)	593.5	8.3	B1/1000		
BH (60°-80°)	336.4	4.7	B1/500		G1/500
BVH (80°-90°)	35.7	0.5			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1223.0	1220.0	1223.7	1228.8	1234.3	1241.8	1246.2	1248.1	1255.6	1258.5	1264.8
5°	1166.3	1164.9	1170.9	1179.6	1192.0	1209.4	1223.4	1226.1	1245.9	1260.0	1272.8
7.5°	1125.2	1125.2	1132.2	1142.6	1156.4	1179.9	1199.7	1203.3	1237.0	1267.3	1291.0
10°	1092.5	1093.7	1101.9	1114.3	1130.5	1155.4	1181.8	1185.9	1234.6	1284.2	1322.0
12.5°	1070.7	1073.6	1081.1	1092.2	1112.3	1142.6	1176.0	1181.6	1239.7	1308.4	1359.2
15°	1084.5	1089.3	1090.1	1094.7	1105.8	1138.7	1179.4	1185.2	1250.5	1333.1	1401.6
17.5°	1145.0	1146.7	1139.2	1129.5	1124.2	1145.2	1189.5	1195.6	1263.6	1357.5	1442.3
20°	1237.0	1236.0	1219.8	1193.7	1166.5	1169.9	1206.2	1212.5	1281.3	1379.1	1482.9
22.5°	1353.2	1349.8	1324.9	1276.7	1230.5	1211.1	1235.5	1240.9	1307.9	1409.8	1526.5
25°	1494.1	1486.6	1453.6	1389.0	1321.0	1271.1	1279.6	1284.7	1346.7	1444.2	1566.5
27.5°	1642.7	1635.2	1593.3	1515.1	1424.6	1346.9	1340.4	1344.7	1390.7	1469.6	1596.0
30°	1798.1	1790.1	1751.9	1664.3	1534.5	1425.3	1397.0	1398.7	1421.7	1483.4	1620.2
32.5°	1954.3	1946.8	1903.9	1802.2	1653.8	1509.6	1437.9	1435.7	1440.3	1497.7	1647.5
35°	2112.6	2115.5	2065.4	1952.8	1786.0	1603.2	1486.3	1481.7	1471.6	1527.0	1686.3
37.5°	2282.0	2280.1	2215.2	2097.6	1924.2	1704.9	1555.8	1555.1	1520.0	1582.4	1747.0
40°	2395.3	2396.5	2357.1	2245.7	2063.9	1817.5	1644.9	1643.2	1597.2	1665.5	1826.7
42.5°	2439.6	2447.6	2457.8	2387.1	2210.1	1948.0	1751.2	1748.7	1704.9	1784.6	1920.4
45°	2442.8	2458.7	2521.7	2512.7	2358.3	2097.3	1887.0	1880.2	1848.7	1942.9	2032.2
47.5°	2415.6	2432.1	2536.7	2587.5	2490.7	2254.9	2045.8	2040.4	2013.3	2140.9	2153.2
50°	2356.3	2372.1	2505.7	2624.1	2599.6	2406.4	2228.8	2214.7	2200.2	2369.7	2291.7
52.5°	2245.2	2275.5	2464.3	2632.8	2664.7	2541.0	2421.2	2412.0	2420.0	2611.0	2430.4
55°	1982.1	2016.0	2357.5	2625.5	2712.9	2654.1	2613.7	2613.2	2654.6	2864.2	2579.3
57.5°	1834.7	1858.6	2140.2	2613.2	2770.0	2766.4	2804.2	2808.8	2889.4	3139.9	2735.2
60°	1751.4	1776.6	2030.0	2567.4	2858.6	2911.7	2998.6	3007.8	3128.1	3445.2	2922.8
62.5°	1675.6	1703.2	1961.8	2474.2	2963.0	3119.4	3231.4	3239.7	3380.8	3758.9	3104.1
65°	1546.1	1577.3	1861.8	2413.0	3057.9	3390.2	3527.5	3533.1	3671.0	4087.6	3242.8
67.5°	1363.1	1391.7	1673.2	2277.7	3128.1	3719.2	3921.1	3924.2	3958.9	4319.8	3313.7
70°	1149.4	1160.3	1404.5	1998.3	3045.0	4026.9	4352.5	4353.2	4221.3	4468.4	3302.1
72.5°	807.6	833.2	1019.6	1512.7	2616.8	3989.4	4576.4	4584.6	4343.3	4393.4	3038.3
75°	495.3	522.4	639.6	916.7	1660.1	3137.5	4228.3	4285.4	4114.5	3917.2	2482.0
77.5°	331.2	341.3	417.3	534.5	752.1	1805.1	3250.8	3358.3	3418.1	2856.7	1587.3
80°	184.7	204.1	276.7	332.1	334.5	717.3	1949.2	1974.3	1901.7	1137.5	489.7
82.5°	97.8	108.4	184.7	195.1	182.5	240.1	726.5	727.2	607.6	305.0	145.5
85°	75.8	84.7	126.6	119.1	93.2	106.5	239.7	252.7	206.7	124.9	47.4
87.5°	37.8	47.0	85.9	75.5	36.6	30.5	85.7	91.5	81.6	48.9	17.2
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°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1267.3	1269.4	1272.1	1269.2	1268.2	1264.3	1257.8	1256.4	1253.0	1253.2	1255.1
5°	1278.4	1282.0	1280.6	1269.4	1256.1	1237.5	1218.1	1201.6	1190.8	1190.0	1189.3
7.5°	1299.7	1302.1	1290.7	1259.0	1221.7	1178.7	1138.0	1102.4	1080.9	1075.5	1074.3
10°	1333.1	1332.6	1301.4	1237.5	1163.2	1086.2	1020.8	971.4	942.6	934.2	932.0
12.5°	1370.4	1364.8	1305.0	1198.3	1080.4	973.6	890.8	835.9	805.9	796.2	793.8
15°	1408.9	1395.1	1296.1	1139.7	978.7	852.3	765.4	714.6	698.4	693.1	692.1
17.5°	1444.7	1418.1	1270.4	1060.3	862.7	731.5	663.8	643.4	647.3	654.3	654.6
20°	1479.8	1433.6	1229.2	960.1	740.5	632.1	609.1	624.1	642.5	656.7	658.7
22.5°	1514.4	1444.4	1176.2	844.4	631.1	576.1	592.4	619.7	640.8	656.3	658.9
25°	1543.5	1447.1	1103.1	720.9	555.1	555.1	584.4	610.3	631.1	646.3	649.0
27.5°	1554.1	1429.2	1000.0	606.6	516.8	545.4	573.2	594.8	612.4	628.7	631.6
30°	1558.2	1396.0	880.9	514.9	501.1	535.0	558.2	576.6	593.3	608.6	611.2
32.5°	1558.9	1356.1	754.5	462.8	490.2	524.1	539.6	555.8	573.7	579.8	580.7
35°	1563.5	1308.9	621.4	436.2	480.0	513.9	526.3	537.9	508.8	511.0	513.0
37.5°	1576.9	1262.2	510.0	421.2	473.5	508.6	523.4	481.2	458.5	453.2	452.4
40°	1601.8	1212.3	427.5	409.1	471.1	511.3	504.7	449.3	410.1	380.8	376.4
42.5°	1636.4	1158.6	374.7	401.1	472.8	524.1	478.8	418.5	353.4	334.5	332.1
45°	1675.4	1102.2	346.2	395.5	478.6	534.0	473.5	377.6	327.0	312.8	311.5
47.5°	1713.1	1033.2	331.4	393.1	486.6	526.0	451.0	365.0	314.5	306.9	307.7
50°	1756.5	971.0	322.4	390.5	493.6	520.9	425.6	358.5	309.6	318.8	328.5
52.5°	1793.0	906.6	314.5	385.1	496.2	512.0	419.0	359.7	309.6	327.3	336.5
55°	1836.4	857.9	305.3	374.0	491.2	486.6	414.4	367.0	313.2	302.1	303.1
57.5°	1892.3	841.9	295.1	356.6	474.2	449.5	412.3	374.0	311.1	304.0	306.5
60°	1969.7	858.9	291.0	333.8	447.8	420.5	412.5	370.4	295.8	283.7	284.0
62.5°	2043.6	877.8	290.7	319.5	415.4	394.6	406.9	358.5	288.1	281.0	283.7
65°	2067.8	858.6	279.1	303.6	378.8	363.6	396.8	345.9	282.3	271.6	271.1
67.5°	2035.3	799.3	255.6	277.7	337.0	327.5	383.4	330.9	273.1	264.3	262.9
70°	1939.0	666.9	226.6	243.5	289.3	286.9	362.4	313.5	260.7	253.2	246.9
72.5°	1679.7	475.2	191.0	202.6	235.5	243.3	333.3	290.7	243.3	227.1	217.4
75°	1379.6	351.7	156.9	159.3	178.9	200.0	293.4	264.1	222.7	195.1	187.6
77.5°	844.8	215.2	124.9	125.9	128.3	159.5	241.6	234.3	196.6	162.7	157.3
80°	273.5	117.4	90.3	94.9	87.6	116.9	186.9	199.5	168.7	136.0	130.2
82.5°	104.1	68.5	61.0	64.1	60.8	78.4	136.3	159.8	138.2	111.8	91.0
85°	50.4	38.7	36.1	40.4	37.5	40.2	87.1	117.6	104.8	72.9	67.8
87.5°	17.9	17.2	13.8	18.6	16.0	14.3	26.6	59.3	69.2	50.1	44.8
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)