

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: P318206

Luminaire Tested: **GLEON-SA2C-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10439 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

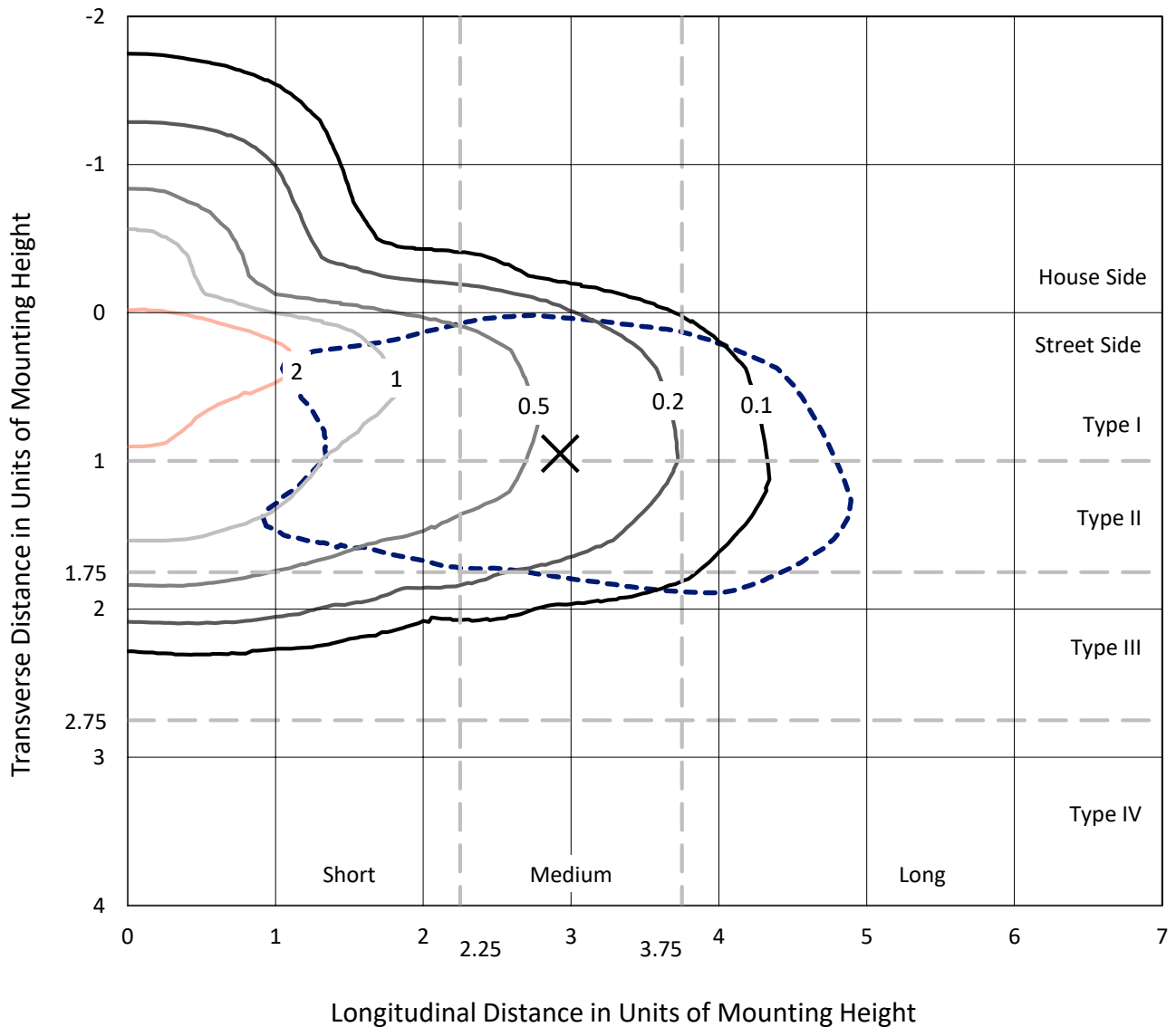
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318206
 CATALOG NUMBER: GLEON-SA2C-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

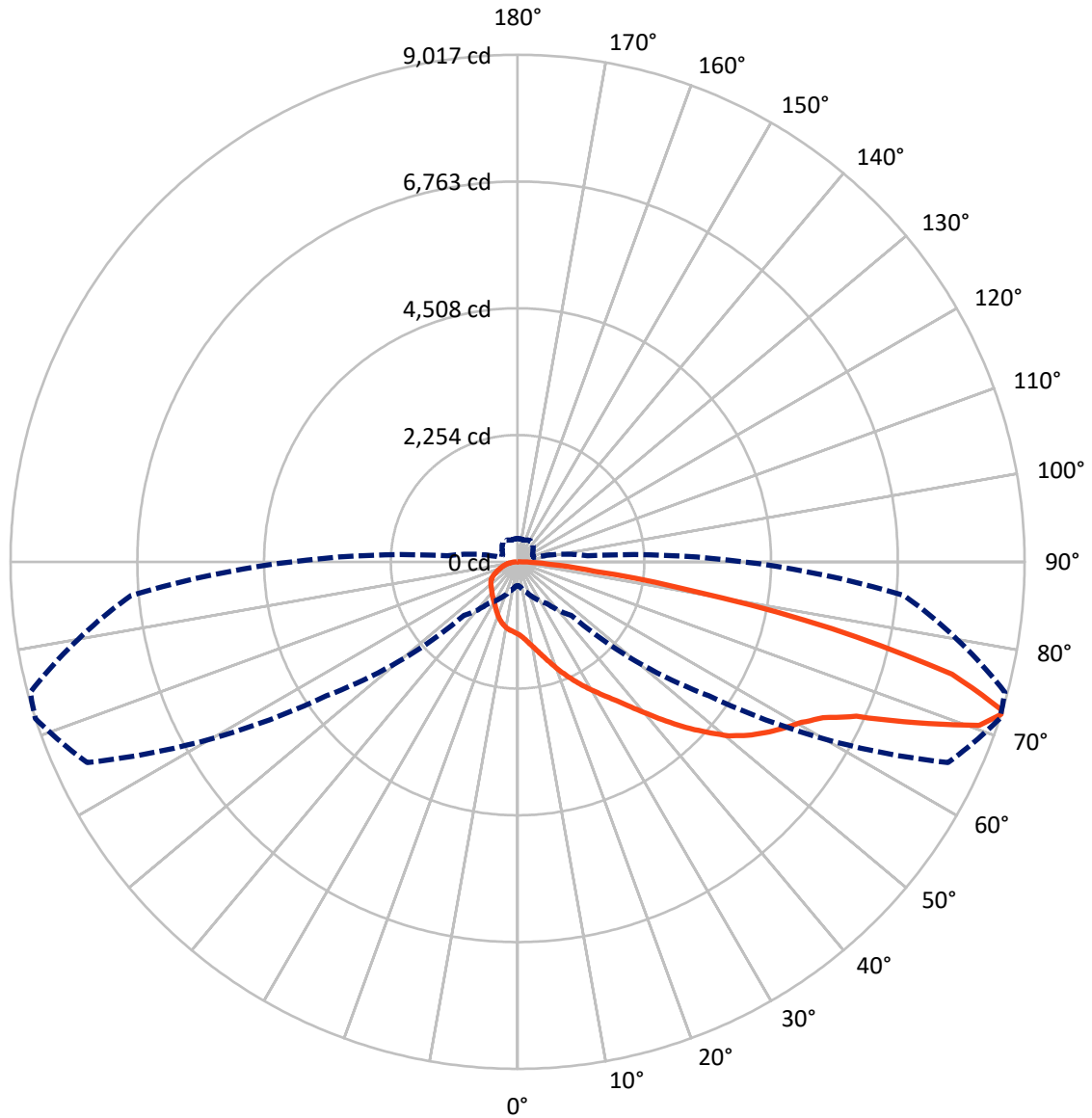
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P318206
CATALOG NUMBER: GLEON-SA2C-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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 CATALOG NUMBER: GLEON-SA2C-827-U-T2

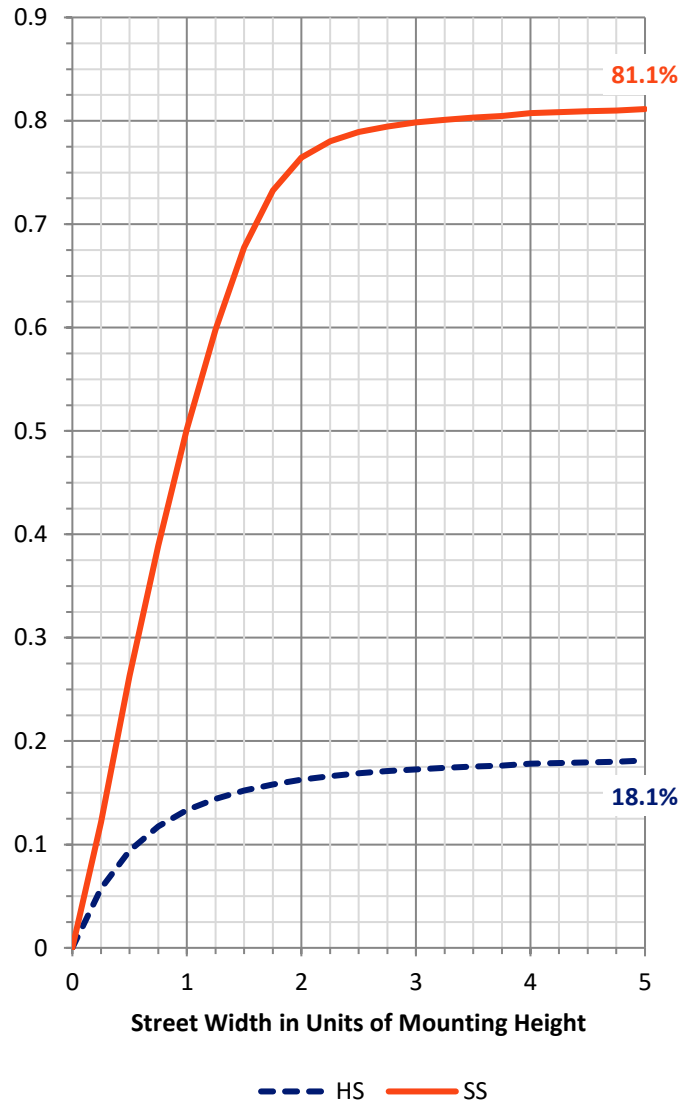
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.5	0.0	1936.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8502.5	0.0	8502.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	10439.0	0.0	10439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.2
10°-20°	415.9	4.0
20°-30°	728.7	7.0
30°-40°	1080.5	10.4
40°-50°	1580.2	15.1
50°-60°	2174.4	20.8
60°-70°	2420.8	23.2
70°-80°	1640.3	15.7
80°-90°	269.6	2.6
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°	10439.0	100.0
0°-180°	10439.0	100.0

Coefficient of Utilization



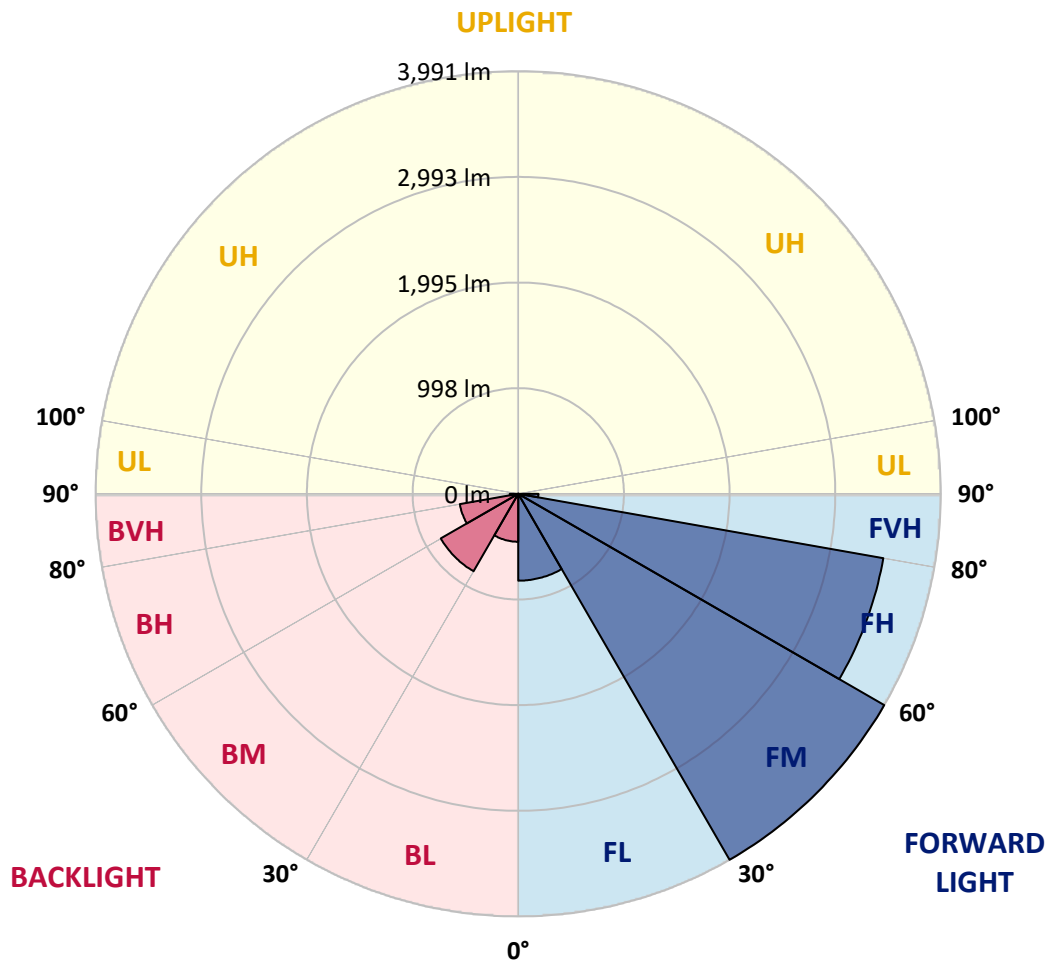
REPORT NUMBER: P318206
 CATALOG NUMBER: GLEON-SA2C-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.6	7.9			
FM (30°-60°)	3991.0	38.2			
FH (60°-80°)	3500.8	33.5			G2/5000
FVH (80°-90°)	190.2	1.8			G2/225
BL (0°-30°)	452.7	4.3	B1/500		
BM (30°-60°)	844.1	8.1	B1/1000		
BH (60°-80°)	560.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	79.4	0.8			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 III Medium





REPORT NUMBER: P318206
 CATALOG NUMBER: GLEON-SA2C-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3
2.5°	1418.7	1416.5	1409.0	1409.0	1394.6	1382.4	1359.4	1343.9	1325.6	1319.1	1297.6
5°	1556.0	1556.7	1547.4	1540.9	1519.7	1493.8	1454.6	1419.1	1383.5	1369.1	1324.9
7.5°	1671.4	1669.9	1667.4	1662.0	1642.3	1615.7	1562.8	1510.0	1457.5	1436.0	1359.8
10°	1745.4	1748.7	1750.8	1753.3	1745.1	1726.0	1676.1	1611.7	1543.1	1513.6	1401.4
12.5°	1782.8	1788.6	1798.6	1815.9	1829.5	1827.4	1791.1	1722.8	1641.2	1604.2	1453.6
15°	1804.7	1812.3	1828.1	1859.0	1897.5	1919.4	1909.7	1847.9	1756.9	1711.3	1517.2
17.5°	1818.4	1824.5	1848.9	1890.3	1947.4	2005.7	2031.2	1979.4	1887.8	1835.6	1590.2
20°	1827.7	1832.4	1863.0	1911.5	1985.5	2078.3	2149.4	2136.5	2031.9	1964.3	1666.4
22.5°	1848.6	1852.5	1881.7	1930.5	2012.5	2132.2	2263.4	2282.8	2183.9	2107.4	1747.9
25°	1906.8	1906.8	1931.3	1965.4	2042.3	2178.9	2359.7	2445.6	2339.2	2250.1	1823.4
27.5°	2017.9	2016.8	2025.8	2037.6	2095.9	2226.4	2445.6	2589.4	2500.2	2402.8	1896.8
30°	2149.4	2156.6	2157.7	2152.0	2179.3	2285.7	2525.0	2741.1	2662.4	2557.4	1971.9
32.5°	2318.7	2323.4	2318.0	2299.0	2295.0	2369.8	2603.0	2899.9	2837.8	2718.8	2040.5
35°	2533.7	2524.7	2507.8	2469.0	2432.0	2482.3	2692.2	3058.8	3034.7	2914.0	2135.1
37.5°	2764.1	2764.4	2743.6	2655.5	2604.5	2626.0	2815.1	3238.9	3273.0	3146.2	2256.2
40°	2948.8	2958.5	2971.5	2855.7	2789.6	2819.4	2971.5	3447.7	3554.8	3421.5	2414.0
42.5°	3077.9	3089.0	3125.7	3053.1	2984.4	3039.8	3155.5	3670.6	3871.1	3739.2	2598.7
45°	3214.4	3220.6	3246.4	3215.2	3171.3	3296.0	3362.9	3901.3	4205.8	4077.8	2805.4
47.5°	3358.2	3364.7	3391.3	3370.4	3347.4	3535.4	3579.3	4118.8	4526.4	4449.8	3026.1
50°	3535.8	3540.1	3565.3	3527.5	3534.7	3715.9	3772.7	4318.3	4862.5	4784.1	3247.5
52.5°	3778.0	3779.1	3814.0	3779.8	3746.1	3848.1	3939.1	4506.3	5125.9	5088.9	3468.9
55°	3967.8	3979.3	4093.6	4086.4	4067.0	3968.2	4078.2	4685.3	5361.0	5378.6	3704.0
57.5°	3846.7	3891.6	4123.1	4286.3	4445.2	4266.9	4266.2	4886.9	5579.5	5662.9	3962.4
60°	3369.0	3430.1	3771.2	4133.2	4630.3	4786.6	4656.5	5133.1	5800.2	5944.7	4286.3
62.5°	2406.1	2506.7	2969.0	3546.9	4376.5	5131.0	5450.9	5523.8	6100.4	6271.1	4707.2
65°	1216.3	1292.5	1680.0	2376.2	3496.6	4906.0	6314.2	6379.3	6621.9	6773.6	5355.3
67.5°	739.0	767.8	956.8	1321.7	2143.7	3821.5	6596.0	7805.2	7631.2	7711.7	6279.4
70°	544.5	565.8	683.6	877.7	1232.9	2242.5	5731.2	8822.7	8708.4	8699.5	6962.3
72°	424.1	439.6	543.8	709.2	901.5	1345.4	4154.0	8447.1	9016.8	8971.6	6899.8
72.5°	402.2	415.9	510.8	667.5	851.9	1219.6	3734.9	8193.7	8994.6	8974.1	6818.9
75°	316.7	326.4	378.1	516.2	666.8	691.9	2046.6	6349.8	7979.1	8310.9	6133.1
77.5°	262.0	263.5	290.8	375.6	519.7	489.2	1005.3	4405.6	5713.6	6078.4	4344.5
80°	213.5	215.3	228.2	263.5	393.2	362.0	477.3	2533.3	3199.0	3202.9	2066.0
82.5°	170.0	170.4	184.8	192.7	282.5	258.8	273.5	1189.4	1397.9	1344.7	742.6
85°	119.7	117.2	180.4	158.2	184.8	166.1	151.0	470.9	578.0	552.8	232.6
87.5°	39.9	41.3	80.2	102.4	107.8	94.2	67.2	180.4	218.2	216.4	73.7
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: P318206
 CATALOG NUMBER: GLEON-SA2C-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3	1284.3
2.5°	1290.7	1279.2	1262.3	1243.7	1228.9	1213.8	1202.7	1196.9	1190.5	1185.1	1191.5
5°	1304.4	1282.8	1246.9	1211.7	1185.8	1162.8	1146.2	1137.6	1129.7	1124.3	1125.0
7.5°	1326.7	1291.8	1231.4	1180.0	1144.1	1119.3	1102.4	1096.6	1091.6	1090.2	1092.0
10°	1350.4	1299.0	1210.9	1142.7	1101.7	1081.2	1073.6	1077.6	1081.2	1084.4	1088.0
12.5°	1377.4	1305.5	1181.1	1098.8	1063.9	1056.0	1063.6	1080.8	1093.4	1101.0	1105.6
15°	1412.6	1311.2	1146.6	1054.9	1031.6	1040.6	1066.1	1095.9	1117.8	1131.9	1134.0
17.5°	1444.9	1310.9	1102.4	1010.7	1005.3	1031.6	1070.0	1112.1	1141.6	1161.3	1165.3
20°	1478.4	1301.2	1051.0	967.6	978.7	1021.9	1071.8	1122.5	1158.1	1181.1	1186.5
22.5°	1509.6	1284.3	994.6	928.4	956.5	1008.9	1065.0	1116.4	1152.0	1170.7	1176.4
25°	1530.8	1254.8	937.4	895.4	936.7	993.1	1042.7	1084.1	1110.7	1120.0	1121.4
27.5°	1541.6	1216.3	883.5	866.6	916.2	967.2	1001.4	1021.9	1029.4	1028.7	1027.3
30°	1543.1	1165.7	837.1	843.2	892.5	929.1	945.3	941.4	931.7	915.1	916.6
32.5°	1538.4	1108.5	798.3	821.0	862.3	882.8	883.5	864.4	838.6	812.3	805.1
35°	1539.8	1052.4	764.2	795.8	825.6	834.6	826.3	798.3	763.1	729.3	722.1
37.5°	1555.6	1003.5	734.7	766.7	785.0	787.2	775.3	745.8	720.0	686.9	684.0
40°	1593.4	968.7	706.7	734.0	744.4	745.5	728.6	707.7	709.9	692.3	691.9
42.5°	1661.3	953.6	681.9	699.8	706.3	708.5	695.5	682.2	700.9	689.4	685.4
45°	1749.0	957.2	661.0	666.4	678.3	688.3	680.4	664.2	671.4	621.5	604.9
47.5°	1850.4	980.2	644.5	637.6	658.1	677.2	665.0	640.5	615.0	565.4	556.0
50°	1969.0	1015.8	629.4	609.2	636.2	662.1	649.9	615.0	576.5	552.5	549.2
52.5°	2092.6	1059.3	614.3	578.0	608.5	650.6	644.5	609.2	561.8	538.1	533.8
55°	2232.8	1103.1	595.2	541.7	578.7	645.2	642.0	588.4	550.7	537.4	534.1
57.5°	2407.2	1153.1	570.1	503.9	550.7	625.8	615.7	575.8	539.2	529.1	528.0
60°	2634.3	1226.8	533.8	463.7	516.5	595.9	593.8	557.5	520.8	513.6	512.2
62.5°	2975.1	1348.6	483.8	423.4	478.4	545.3	565.0	532.7	501.4	501.1	501.8
65°	3503.4	1531.9	429.5	388.2	440.0	502.5	531.6	507.2	481.6	488.8	489.9
67.5°	4115.9	1684.0	376.3	353.7	400.8	461.9	501.4	481.6	455.4	474.1	474.5
70°	4319.7	1548.1	329.6	319.5	360.2	422.7	468.7	453.6	427.0	445.7	443.9
72°	4019.9	1249.8	299.4	293.7	329.6	390.3	439.6	427.4	401.1	413.7	409.0
72.5°	3925.4	1191.5	291.9	287.2	321.3	382.1	432.0	420.9	394.7	405.4	401.1
75°	3501.6	1034.8	250.9	252.0	280.4	341.8	389.6	386.0	359.1	360.2	358.7
77.5°	2539.8	758.8	211.3	218.5	238.7	300.5	346.9	344.7	315.2	309.8	308.8
80°	1178.6	387.1	172.2	175.4	196.3	251.2	295.8	292.9	269.2	262.4	258.4
82.5°	403.6	184.0	129.4	131.6	152.0	202.4	256.6	254.8	235.1	221.8	213.5
85°	144.1	91.7	90.6	88.4	108.6	159.2	223.6	213.9	184.8	157.4	156.7
87.5°	46.7	39.2	46.7	46.4	63.3	107.8	162.5	138.4	134.1	111.4	109.3
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)