

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: P268993

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5414.8 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

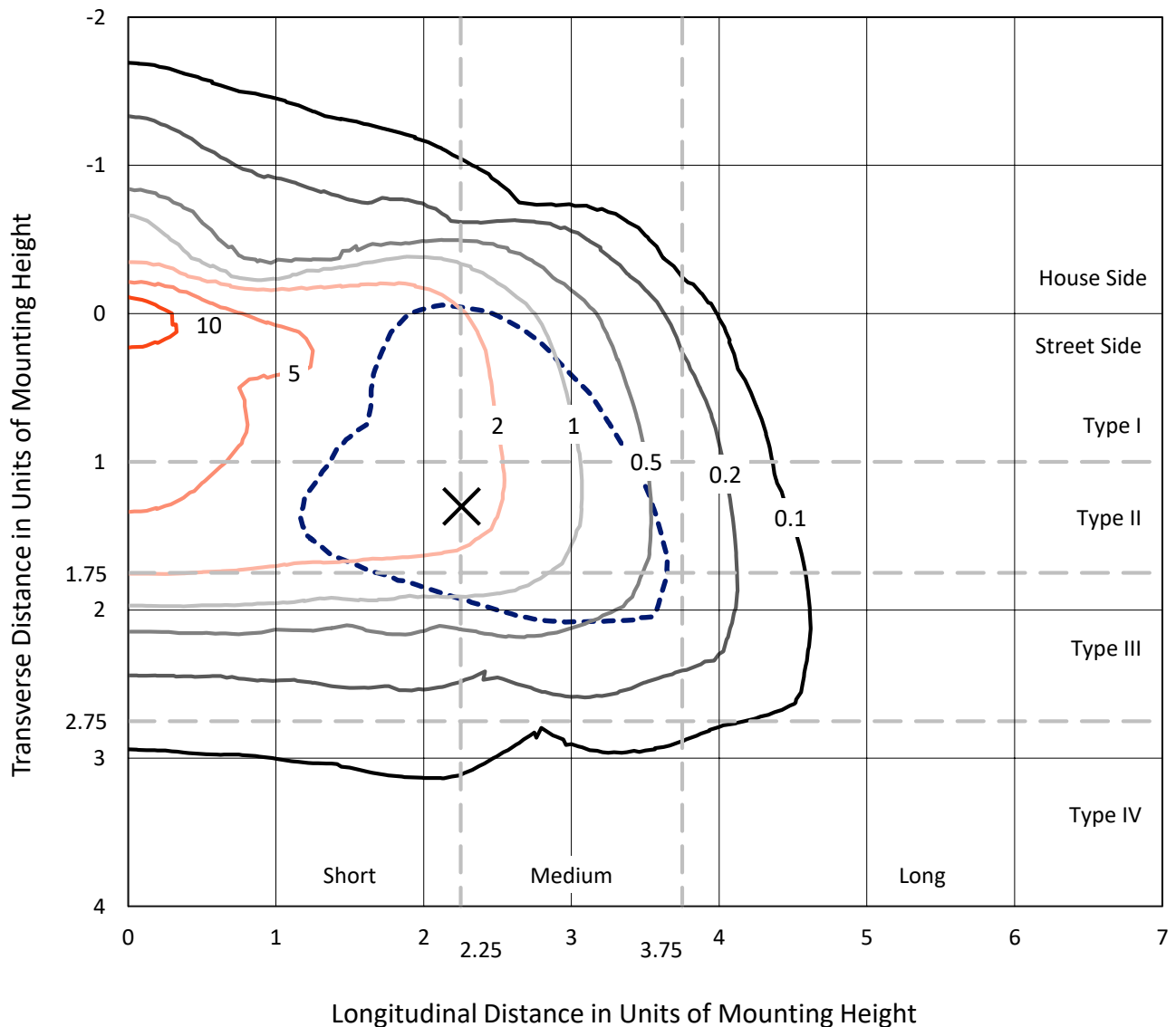
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

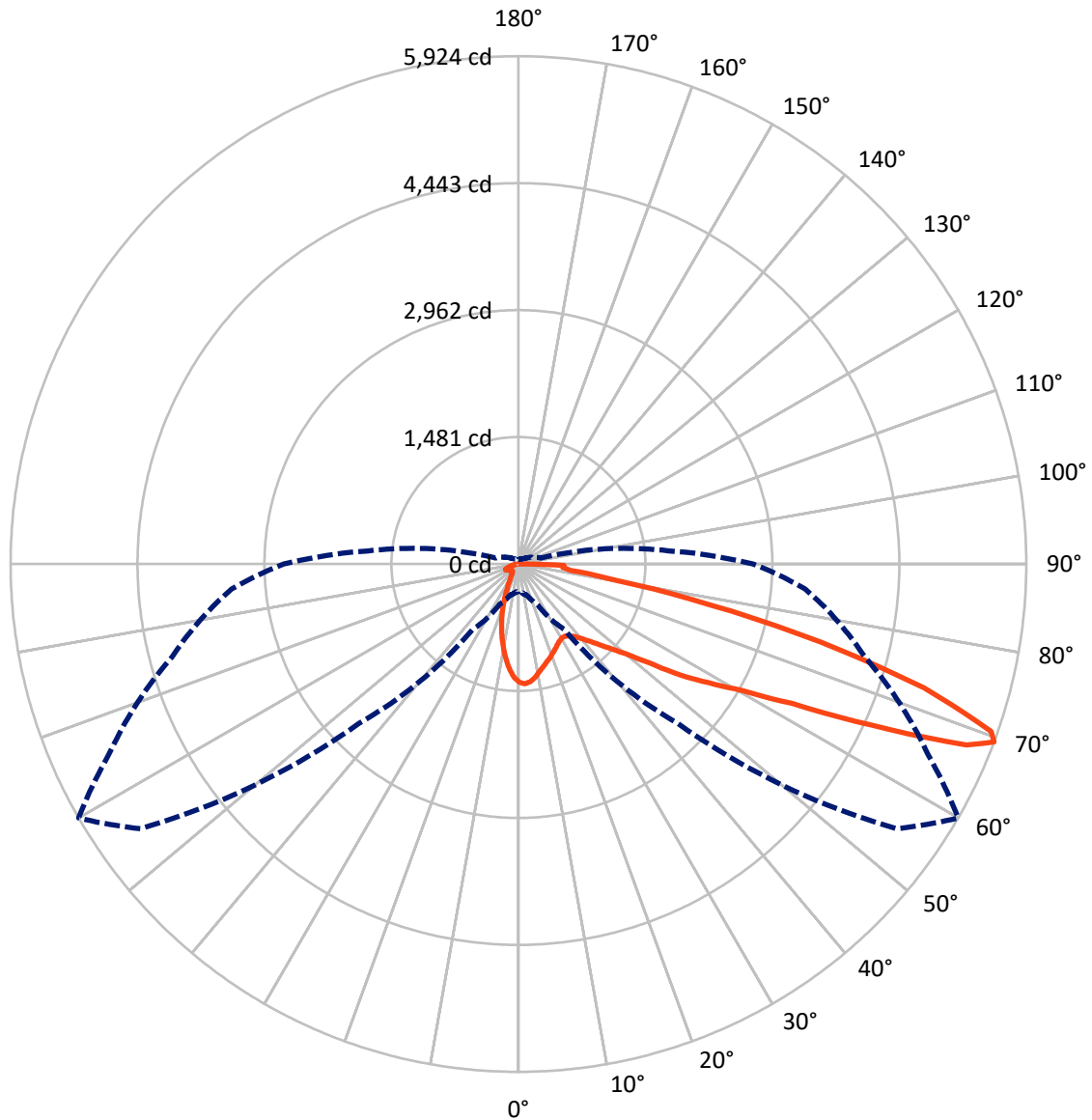
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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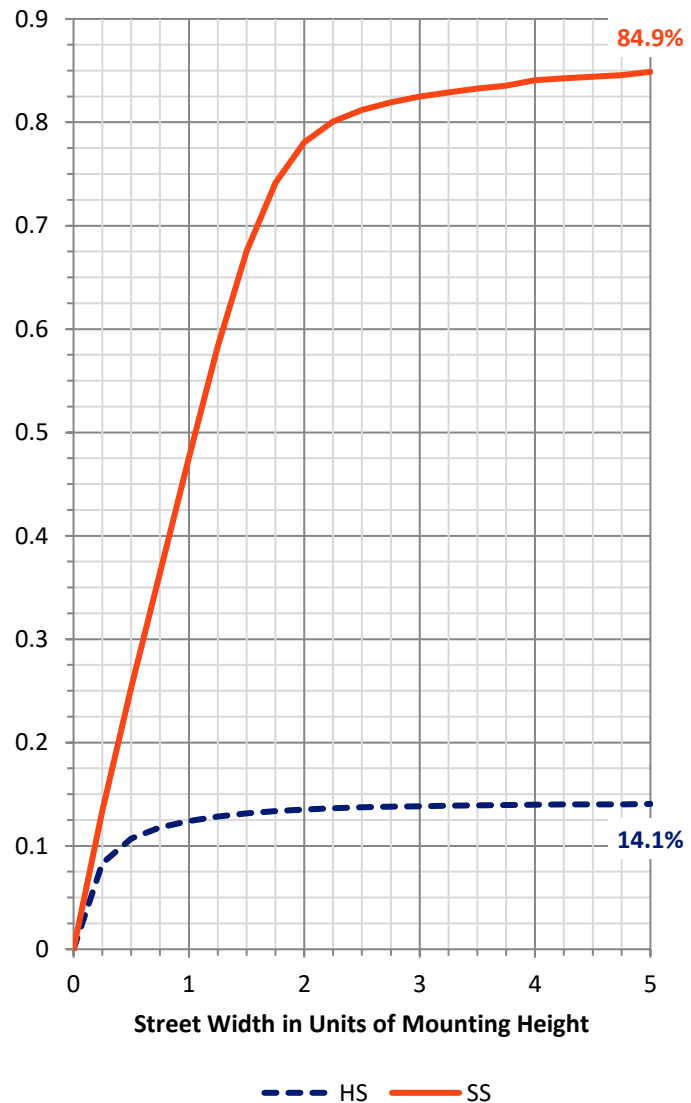
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.3	0.0	770.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4644.5	0.0	4644.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	5414.8	0.0	5414.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	2.2
10°-20°	248.6	4.6
20°-30°	316.7	5.8
30°-40°	435.4	8.0
40°-50°	706.5	13.0
50°-60°	1133.0	20.9
60°-70°	1508.0	27.8
70°-80°	814.2	15.0
80°-90°	135.9	2.5
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°	5414.8	100.0
0°-180°	5414.8	100.0



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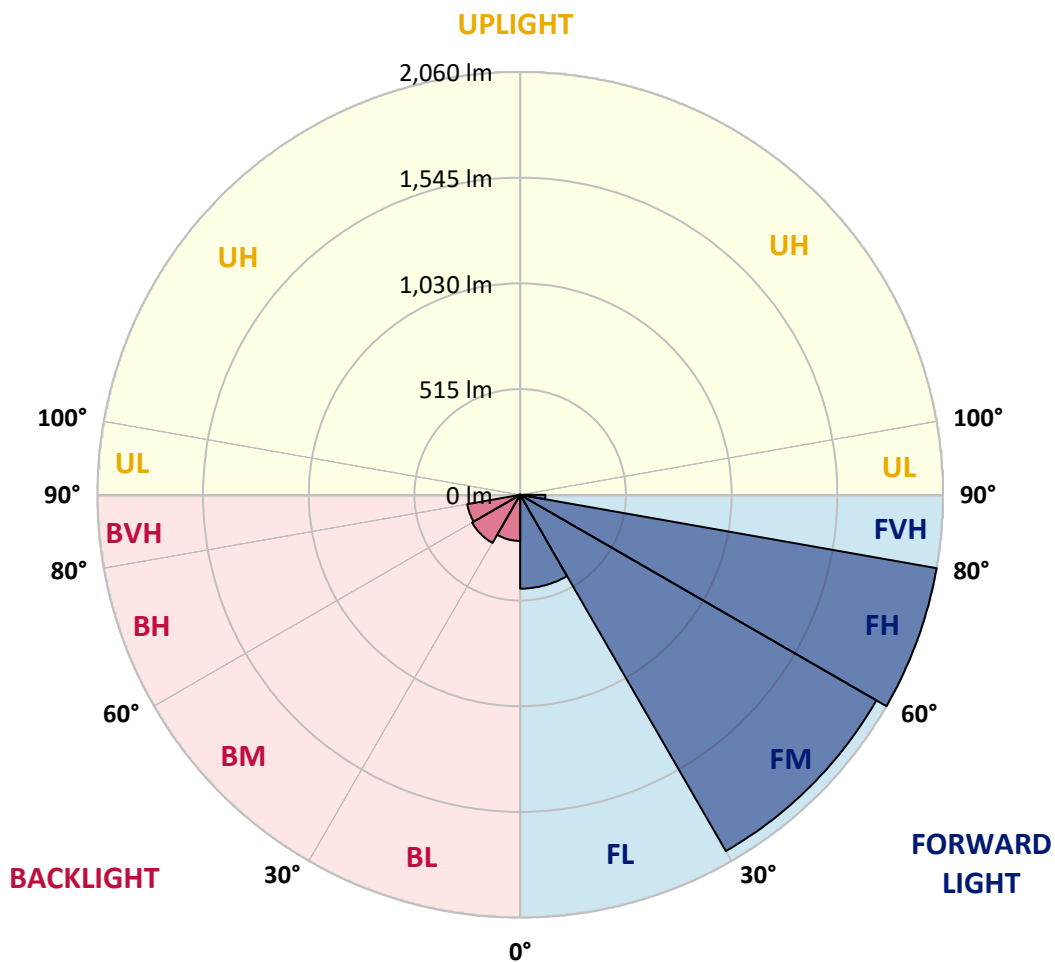
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.2	8.4			
FM	(30°-60°)	2004.2	37.0			
FH	(60°-80°)	2060.2	38.0			G2/5000
FVH	(80°-90°)	122.8	2.3			G2/225
BL	(0°-30°)	224.7	4.2	B1/500		
BM	(30°-60°)	270.6	5.0	B1/1000		
BH	(60°-80°)	261.9	4.8	B1/500		G1/500
BVH	(80°-90°)	13.1	0.2			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°	60°	65°	75°	85°
0°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1408.1	1411.1	1409.9	1409.1	1411.4	1407.7	1400.2	1397.9	1394.2	1385.5	1371.0
5°	1355.3	1364.6	1364.0	1371.2	1382.9	1386.1	1382.6	1383.2	1376.5	1365.7	1341.3
7.5°	1263.9	1267.9	1269.9	1285.4	1306.9	1324.0	1338.7	1343.4	1340.4	1331.1	1299.8
10°	1169.8	1172.8	1177.9	1196.0	1223.1	1246.8	1274.7	1290.5	1297.4	1295.8	1260.9
12.5°	1088.9	1092.1	1098.5	1119.0	1151.4	1180.7	1220.9	1240.9	1257.1	1266.8	1229.2
15°	1016.4	1023.3	1029.5	1053.2	1089.5	1127.9	1173.4	1198.5	1223.6	1245.3	1201.2
17.5°	960.0	966.8	970.3	991.9	1030.5	1077.6	1131.1	1160.6	1192.1	1227.5	1173.4
20°	927.3	930.5	928.8	940.9	975.6	1025.7	1088.9	1123.2	1161.1	1210.8	1145.7
22.5°	918.1	918.3	912.6	911.3	933.8	975.9	1043.9	1085.5	1132.0	1199.9	1121.9
25°	940.3	939.5	923.8	911.1	913.3	938.0	1000.5	1049.0	1107.7	1197.5	1103.6
27.5°	989.8	992.2	968.8	944.7	921.0	920.3	967.6	1018.6	1087.8	1208.2	1095.8
30°	1059.1	1063.1	1038.3	1007.5	962.9	926.0	954.7	1000.5	1075.6	1230.4	1094.5
32.5°	1135.0	1139.1	1120.2	1088.1	1029.5	961.5	963.6	1002.1	1075.0	1261.6	1103.3
35°	1215.8	1220.4	1210.8	1183.5	1118.5	1027.2	997.7	1027.4	1092.1	1309.2	1127.2
37.5°	1306.0	1313.3	1315.9	1290.1	1220.4	1113.8	1053.4	1075.6	1130.4	1375.3	1170.9
40°	1436.0	1446.2	1445.5	1408.4	1337.3	1230.7	1139.4	1145.2	1190.4	1463.8	1240.6
42.5°	1685.0	1687.1	1622.0	1541.1	1466.2	1353.7	1240.9	1236.2	1273.1	1575.6	1343.4
45°	2001.9	1993.2	1848.3	1692.0	1600.5	1494.9	1373.0	1350.0	1377.9	1712.2	1472.1
47.5°	2264.6	2244.8	2061.7	1846.1	1742.8	1648.4	1528.0	1487.9	1503.3	1867.0	1638.5
50°	2356.0	2341.1	2189.3	1974.4	1877.5	1835.6	1719.0	1662.0	1666.1	2051.8	1833.4
52.5°	2336.3	2334.2	2233.0	2058.8	2003.6	2032.3	1989.4	1912.3	1871.4	2256.8	2043.6
55°	2290.0	2294.5	2257.9	2157.2	2147.8	2222.2	2342.9	2285.8	2158.9	2463.7	2261.0
57.5°	2129.3	2140.8	2221.2	2280.8	2379.8	2490.7	2627.5	2611.3	2468.5	2687.4	2519.4
60°	1715.4	1742.1	1958.1	2256.8	2618.6	2965.5	3026.6	2989.0	2787.5	2964.9	2860.8
62.5°	1201.9	1229.6	1486.4	1954.0	2579.4	3501.7	3740.3	3577.8	3245.8	3373.8	3302.6
65°	643.5	656.8	853.0	1355.7	2177.6	3612.3	4783.0	4535.9	3971.3	3877.8	3680.5
67.5°	354.9	362.2	437.4	684.5	1394.7	3181.0	5447.4	5634.2	4878.2	4213.4	3611.7
69°	321.0	327.7	376.8	518.4	933.2	2630.1	5382.6	5923.8	5275.8	4180.2	3357.5
70°	313.9	320.2	364.4	477.9	755.5	2167.9	5165.3	5849.8	5370.5	4061.1	3135.8
72.5°	282.4	289.3	332.3	429.2	645.5	1080.8	4091.5	4946.0	4875.9	3521.3	2378.4
75°	263.5	269.8	342.4	420.3	618.2	684.0	2697.3	3645.2	3584.2	2463.2	1282.5
77.5°	112.7	112.2	158.8	355.6	627.2	662.3	1449.3	2277.3	2077.7	1052.9	368.2
80°	75.4	74.0	75.4	104.7	575.2	666.0	759.3	1155.8	873.2	268.4	181.5
82.5°	64.9	63.8	66.1	63.8	202.2	760.1	645.5	614.7	415.0	152.5	90.0
85°	43.7	41.9	57.0	57.3	95.5	675.3	727.2	519.2	335.8	90.5	44.5
87.5°	20.9	20.4	33.1	40.6	56.0	274.4	815.8	532.1	338.8	46.4	21.2
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°	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7	1379.7
2.5°	1366.4	1355.7	1345.2	1332.6	1319.6	1305.0	1297.6	1290.3	1288.4	1286.5	1279.0
5°	1328.8	1313.6	1287.5	1258.6	1228.3	1198.8	1176.3	1162.1	1151.4	1146.0	1136.3
7.5°	1280.2	1257.8	1212.2	1162.3	1111.5	1064.9	1024.5	999.3	975.1	963.9	951.0
10°	1233.8	1200.7	1129.4	1056.1	982.9	912.6	846.5	799.6	758.0	734.8	718.3
12.5°	1194.0	1148.6	1049.9	950.8	850.3	750.2	651.0	573.1	508.0	473.6	456.2
15°	1155.4	1100.5	974.3	848.4	719.6	583.3	453.0	364.6	310.8	289.3	282.0
17.5°	1120.2	1049.9	898.5	745.5	584.5	419.8	304.4	255.7	235.1	228.1	225.7
20°	1082.4	998.9	819.8	637.6	443.9	293.4	237.8	216.3	208.0	205.8	204.9
22.5°	1045.7	948.7	744.4	522.4	318.9	226.6	204.3	195.4	194.0	195.9	195.9
25°	1014.6	903.8	663.0	401.8	234.1	190.7	182.8	180.7	185.7	192.4	193.9
27.5°	991.4	866.9	576.5	296.6	186.5	165.8	165.6	169.1	181.3	194.4	197.0
30°	975.4	831.8	483.8	213.9	156.5	146.0	150.1	157.5	175.4	194.0	199.1
32.5°	967.3	805.9	387.3	165.6	133.9	128.2	135.3	144.1	162.0	179.2	185.7
35°	973.6	786.7	296.4	138.1	118.2	113.7	121.1	129.7	140.1	147.5	152.5
37.5°	997.1	779.2	223.7	123.7	107.4	103.3	109.1	114.1	118.2	120.4	122.7
40°	1047.9	787.4	179.2	116.4	101.5	96.3	98.6	100.4	103.0	105.1	106.2
42.5°	1122.6	811.7	160.5	113.5	98.4	90.8	90.2	91.0	94.4	98.4	99.2
45°	1227.3	854.6	159.3	115.3	96.7	86.2	83.9	85.0	90.2	96.3	97.2
47.5°	1360.9	920.0	169.8	120.8	98.1	83.9	80.0	81.3	87.9	95.9	97.2
50°	1522.8	1011.2	187.2	128.9	103.8	84.5	78.7	79.5	86.2	95.2	96.5
52.5°	1714.1	1140.7	206.4	136.8	109.9	87.9	79.8	78.0	84.3	92.0	93.7
55°	1926.8	1306.9	226.1	143.9	112.9	92.0	81.8	75.8	80.3	86.9	88.2
57.5°	2187.8	1539.1	260.0	150.6	115.2	95.0	83.9	73.8	75.4	80.0	81.0
60°	2541.1	1867.5	319.8	162.0	119.8	95.9	83.7	72.0	70.3	73.0	73.5
62.5°	2964.6	2224.5	369.8	176.1	127.6	96.7	82.1	70.6	66.1	66.1	66.7
65°	3216.0	2319.9	342.2	187.8	134.1	95.9	80.3	69.3	63.1	60.1	60.5
67.5°	3002.9	2040.2	293.2	190.1	133.9	92.3	77.4	67.0	59.8	55.4	55.2
69°	2735.8	1760.4	271.3	184.0	127.6	87.7	73.8	64.4	57.5	52.8	52.6
70°	2520.5	1589.6	256.8	177.1	120.8	84.3	70.8	62.1	55.8	51.3	50.8
72.5°	1832.5	1041.6	219.5	152.3	99.6	70.6	61.3	54.3	49.6	47.2	46.5
75°	915.7	496.8	178.1	123.4	76.4	56.6	50.2	45.5	43.2	42.6	42.4
77.5°	300.8	227.6	127.4	92.0	56.8	44.1	40.6	37.1	36.7	38.2	37.6
80°	165.3	132.4	80.8	60.9	38.6	32.3	31.9	30.1	30.8	33.4	33.0
82.5°	84.3	68.8	49.9	36.7	26.2	23.3	25.4	24.3	25.4	27.7	27.5
85°	41.6	37.6	31.6	22.3	17.2	14.9	18.1	18.9	19.4	21.2	21.2
87.5°	24.1	22.3	16.8	10.5	8.7	7.8	10.5	10.2	12.0	13.0	12.8
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)