

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: P268998

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268998
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-SL3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 5939.9 lumens
Efficiency: N/A
Efficacy: 88.7 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): 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: 25 FT

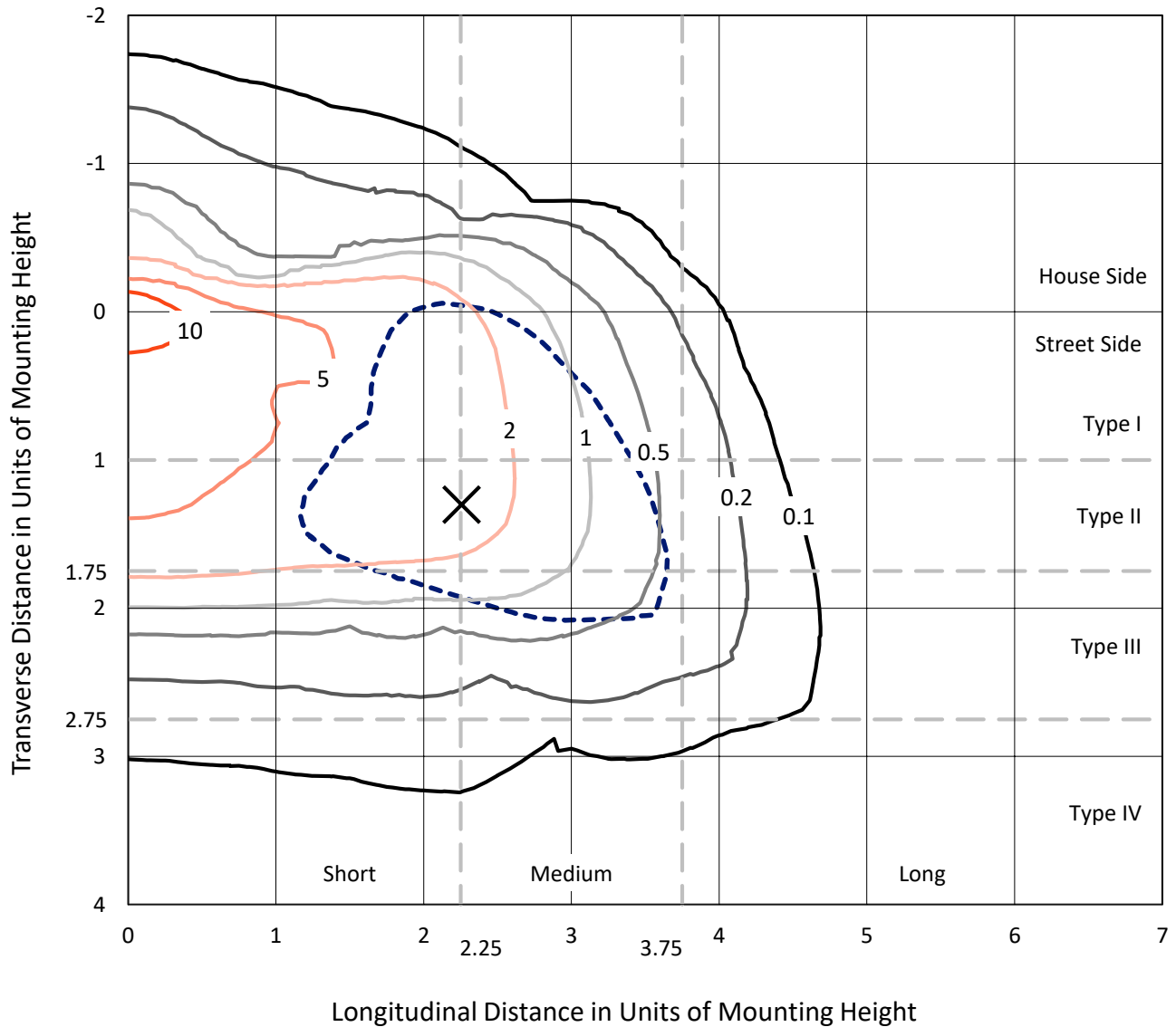


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

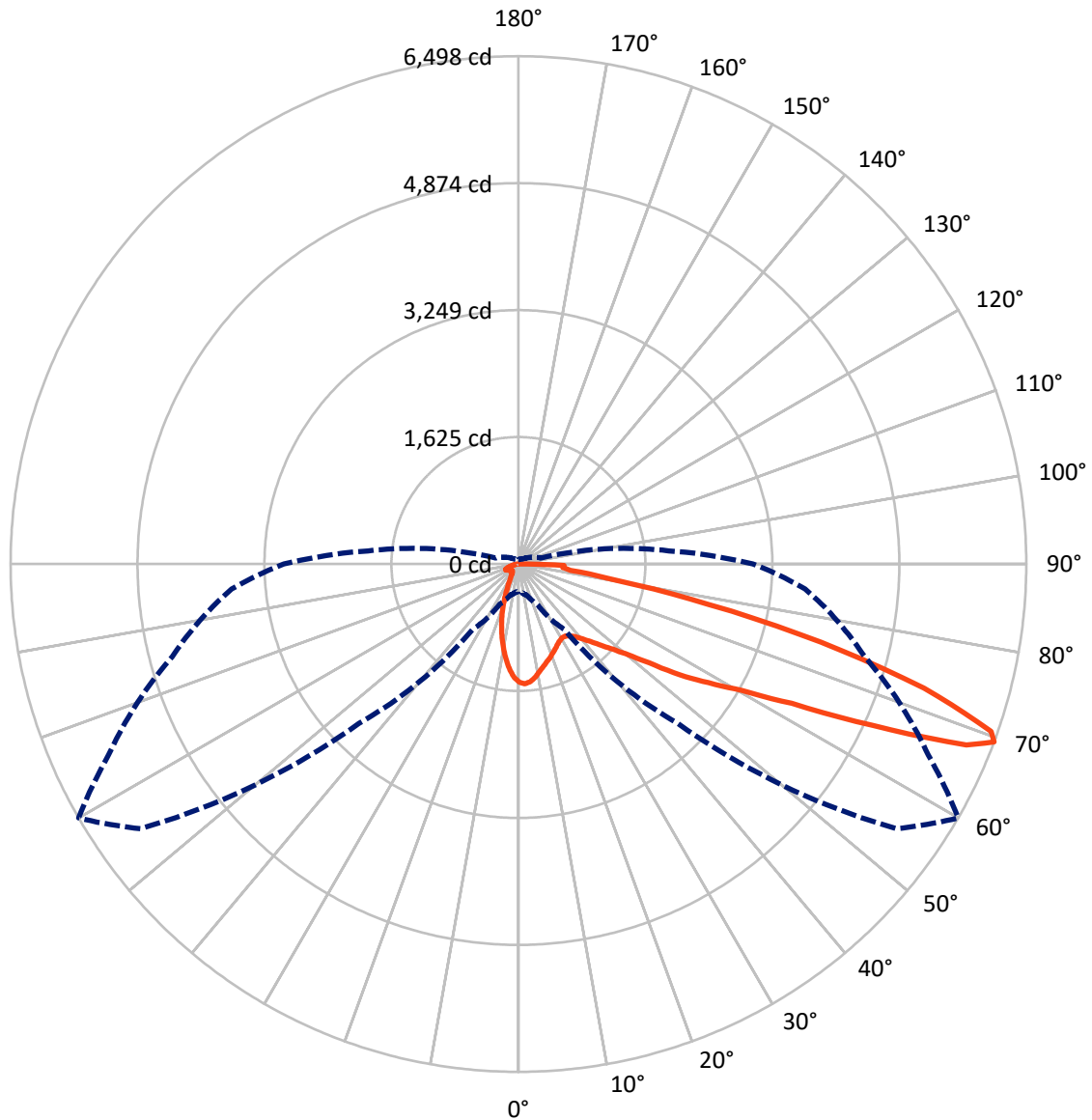


Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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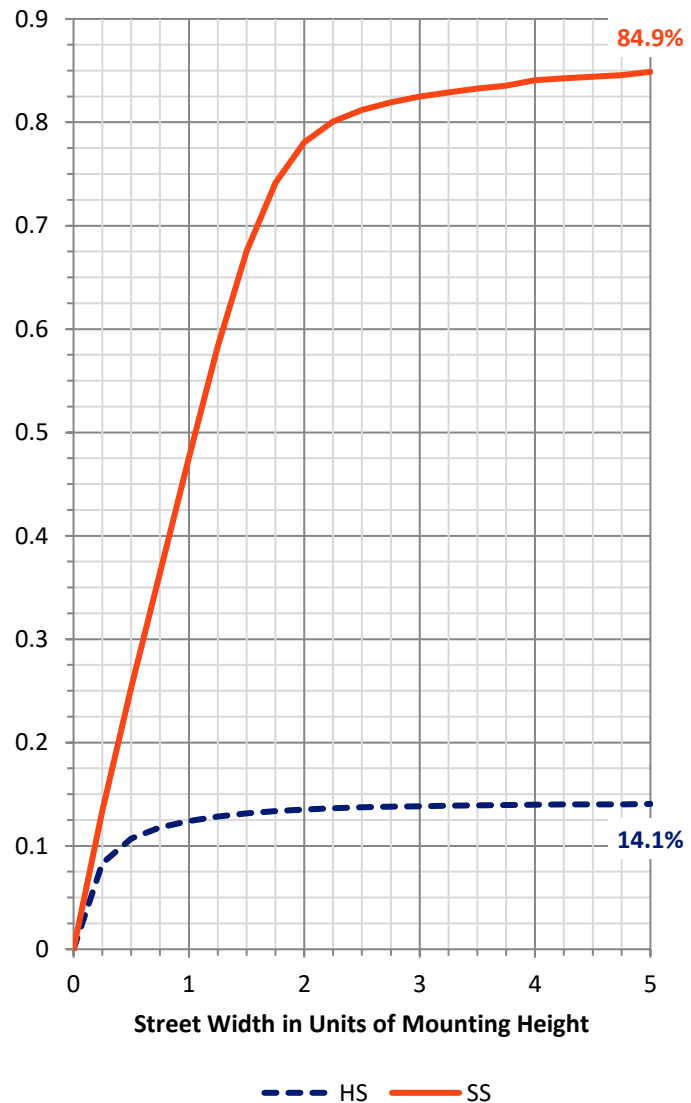
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.1	0.0	845.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5094.9	0.0	5094.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	5939.9	0.0	5939.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	2.2
10°-20°	272.7	4.6
20°-30°	347.4	5.8
30°-40°	477.6	8.0
40°-50°	775.0	13.0
50°-60°	1242.9	20.9
60°-70°	1654.2	27.8
70°-80°	893.1	15.0
80°-90°	149.0	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°	5939.9	100.0
0°-180°	5939.9	100.0



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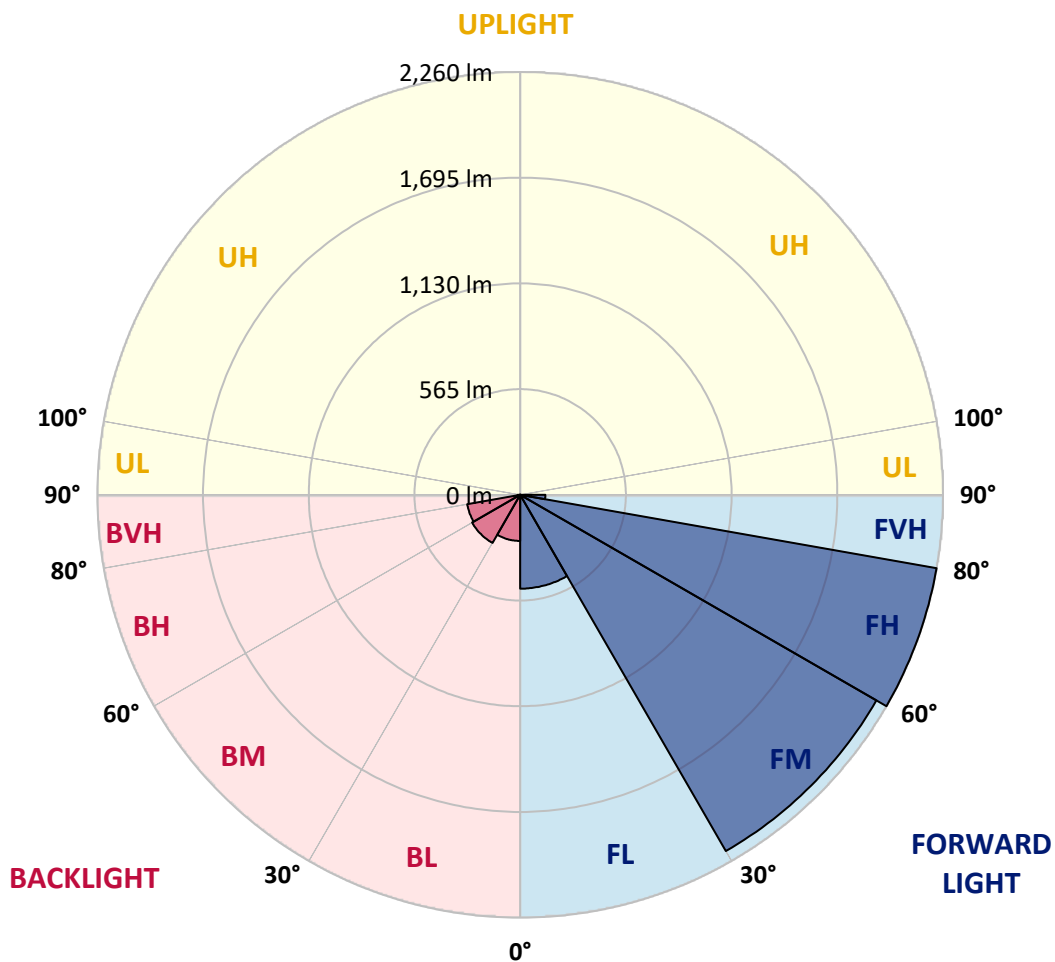
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.5	8.4			
FM	(30°-60°)	2198.6	37.0			
FH	(60°-80°)	2260.0	38.0			G2/5000
FVH	(80°-90°)	134.7	2.3			G2/225
BL	(0°-30°)	246.5	4.2	B1/500		
BM	(30°-60°)	296.9	5.0	B1/1000		
BH	(60°-80°)	287.3	4.8	B1/500		G1/500
BVH	(80°-90°)	14.4	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°	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6
2.5°	1544.5	1548.0	1546.6	1545.8	1548.3	1544.2	1535.9	1533.3	1529.4	1519.9	1503.9
5°	1486.7	1496.9	1496.3	1504.1	1517.0	1520.6	1516.8	1517.2	1509.8	1498.2	1471.5
7.5°	1386.4	1390.8	1393.1	1410.0	1433.5	1452.5	1468.5	1473.7	1470.3	1460.3	1425.8
10°	1283.1	1286.6	1292.0	1311.9	1341.7	1367.8	1398.2	1415.8	1423.3	1421.5	1383.0
12.5°	1194.4	1198.0	1205.2	1227.5	1263.0	1295.3	1339.5	1361.2	1379.0	1389.6	1348.3
15°	1115.1	1122.5	1129.3	1155.2	1195.0	1237.2	1287.2	1314.7	1342.2	1366.1	1317.6
17.5°	1053.1	1060.4	1064.5	1088.0	1130.5	1182.2	1240.6	1273.2	1307.6	1346.6	1287.2
20°	1017.2	1020.7	1018.9	1032.2	1070.3	1125.0	1194.4	1232.0	1273.6	1328.2	1256.8
22.5°	1007.1	1007.4	1001.2	999.6	1024.3	1070.6	1145.2	1190.8	1241.8	1316.1	1230.7
25°	1031.6	1030.6	1013.5	999.5	1002.0	1029.0	1097.5	1150.5	1215.1	1313.6	1210.6
27.5°	1085.7	1088.3	1062.9	1036.5	1010.4	1009.4	1061.3	1117.3	1193.4	1325.4	1202.0
30°	1161.8	1166.1	1138.8	1105.3	1056.1	1015.8	1047.3	1097.5	1179.8	1349.8	1200.6
32.5°	1245.1	1249.6	1228.9	1193.7	1129.3	1054.8	1057.0	1099.3	1179.4	1383.8	1210.2
35°	1333.7	1338.8	1328.2	1298.4	1226.9	1126.8	1094.3	1127.1	1198.0	1436.1	1236.3
37.5°	1432.6	1440.7	1443.5	1415.2	1338.8	1221.8	1155.5	1179.8	1240.1	1508.8	1284.3
40°	1575.3	1586.4	1585.6	1544.8	1467.1	1350.1	1249.9	1256.2	1305.9	1605.7	1360.9
42.5°	1848.4	1850.8	1779.4	1690.6	1608.2	1484.9	1361.2	1356.0	1396.5	1728.5	1473.7
45°	2195.8	2186.5	2027.5	1856.2	1755.7	1639.9	1506.1	1480.9	1511.6	1878.3	1614.9
47.5°	2484.4	2462.4	2261.7	2025.1	1911.9	1808.3	1676.2	1632.1	1649.0	2048.1	1797.4
50°	2584.5	2568.1	2401.7	2165.9	2059.6	2013.7	1885.7	1823.2	1827.8	2250.8	2011.1
52.5°	2563.0	2560.6	2449.6	2258.5	2198.0	2229.6	2182.4	2097.8	2053.0	2475.6	2241.8
55°	2512.1	2517.1	2476.8	2366.3	2356.1	2437.8	2570.1	2507.4	2368.3	2702.6	2480.3
57.5°	2335.7	2348.3	2436.7	2502.0	2610.6	2732.1	2882.2	2864.4	2707.9	2948.0	2763.7
60°	1881.7	1911.0	2147.9	2475.6	2872.5	3253.0	3320.1	3278.9	3057.9	3252.5	3138.1
62.5°	1318.4	1348.8	1630.7	2143.4	2829.5	3841.2	4102.9	3924.8	3560.6	3700.8	3622.9
65°	705.9	720.5	935.8	1487.1	2388.8	3962.6	5246.9	4975.7	4356.5	4253.8	4037.4
67.5°	389.3	397.4	479.8	751.0	1530.0	3489.5	5975.7	6180.6	5351.4	4622.0	3962.1
69°	352.0	359.5	413.5	568.6	1023.8	2885.1	5904.6	6498.2	5787.5	4585.5	3683.1
70°	344.3	351.1	399.7	524.3	828.6	2378.2	5666.1	6417.0	5891.4	4455.0	3439.8
72.5°	309.8	317.3	364.4	470.8	708.1	1185.7	4488.2	5425.7	5348.8	3862.7	2609.0
75°	289.0	295.8	375.6	461.1	678.0	750.4	2958.8	3998.7	3931.9	2702.1	1406.8
77.5°	123.6	123.1	174.2	390.3	688.1	726.5	1589.9	2498.0	2279.1	1155.0	404.0
80°	82.6	81.1	82.6	114.8	631.0	730.5	833.0	1268.0	957.9	294.5	199.2
82.5°	71.1	70.0	72.7	70.0	221.8	833.8	708.1	674.3	455.4	167.3	98.8
85°	47.9	46.0	62.5	62.8	104.7	740.8	797.7	569.5	368.5	99.4	48.8
87.5°	22.9	22.4	36.4	44.5	61.4	301.0	894.9	583.5	371.5	50.8	23.3
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°	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6
2.5°	1498.9	1487.1	1475.7	1461.9	1447.6	1431.4	1423.5	1415.5	1413.5	1411.1	1403.2
5°	1457.6	1441.1	1412.2	1380.8	1347.5	1314.9	1290.3	1274.9	1263.0	1257.1	1246.5
7.5°	1404.3	1379.8	1329.6	1275.1	1219.2	1168.2	1123.9	1096.1	1069.7	1057.3	1043.3
10°	1353.4	1317.0	1239.0	1158.6	1078.2	1001.2	928.5	877.1	831.6	806.0	788.0
12.5°	1309.9	1260.0	1151.7	1043.0	932.8	822.9	714.2	628.6	557.2	519.6	500.4
15°	1267.4	1207.1	1068.9	930.9	789.4	639.9	496.9	399.9	340.8	317.3	309.3
17.5°	1228.9	1151.7	985.6	817.7	641.3	460.6	334.0	280.6	258.0	250.2	247.7
20°	1187.3	1095.8	899.3	699.5	486.9	322.0	260.8	237.3	228.1	225.8	224.7
22.5°	1147.1	1040.7	816.6	572.9	349.8	248.6	224.0	214.3	212.9	215.0	215.0
25°	1113.0	991.4	727.4	440.7	256.8	209.1	200.6	198.3	203.7	211.2	212.5
27.5°	1087.5	950.9	632.3	325.4	204.5	181.8	181.6	185.4	198.9	213.2	216.0
30°	1070.1	912.5	530.8	234.6	171.5	160.1	164.7	172.7	192.5	212.9	218.4
32.5°	1061.1	884.0	425.0	181.6	147.0	140.7	148.3	158.1	177.7	196.5	203.7
35°	1067.9	863.1	325.0	151.5	129.6	124.9	132.9	142.3	153.8	161.9	167.3
37.5°	1093.7	854.7	245.3	135.7	117.9	113.4	119.7	125.1	129.6	132.1	134.6
40°	1149.6	863.7	196.5	127.6	111.3	105.6	108.2	110.2	113.0	115.3	116.5
42.5°	1231.5	890.4	176.2	124.5	107.8	99.5	99.1	99.8	103.6	107.8	108.8
45°	1346.3	937.4	174.7	126.5	106.2	94.7	92.0	93.2	99.1	105.6	106.8
47.5°	1493.0	1009.2	186.2	132.6	107.5	92.0	87.9	89.2	96.4	105.3	106.8
50°	1670.6	1109.2	205.4	141.5	113.9	92.6	86.3	87.2	94.7	104.5	105.9
52.5°	1880.3	1251.2	226.5	150.0	120.6	96.4	87.6	85.5	92.3	101.0	102.8
55°	2113.5	1433.5	247.9	157.8	124.0	101.0	89.8	83.3	88.2	95.3	96.7
57.5°	2399.9	1688.4	285.2	165.3	126.2	104.2	92.0	80.8	82.6	87.9	88.9
60°	2787.6	2048.8	350.9	177.7	131.4	105.3	91.8	79.0	77.2	80.0	80.7
62.5°	3252.1	2440.1	405.8	193.1	140.0	106.2	90.1	77.4	72.7	72.7	73.1
65°	3527.9	2544.8	375.3	206.0	147.2	105.3	88.2	76.0	69.2	65.9	66.3
67.5°	3294.1	2238.0	321.7	208.5	147.0	101.2	84.9	73.4	65.7	60.8	60.5
69°	3001.1	1931.0	297.6	201.7	140.0	96.1	80.8	70.5	63.2	58.0	57.8
70°	2765.0	1743.7	281.8	194.3	132.6	92.3	77.8	68.0	61.2	56.2	55.7
72.5°	2010.2	1142.6	240.7	166.9	109.4	77.4	67.2	59.6	54.4	51.7	51.1
75°	1004.6	544.9	195.4	135.5	83.8	62.0	55.1	49.9	47.3	46.8	46.5
77.5°	329.9	249.5	139.7	101.0	62.3	48.5	44.5	40.8	40.2	42.0	41.3
80°	181.4	145.2	88.7	66.8	42.5	35.7	35.0	33.0	33.9	36.7	36.1
82.5°	92.3	75.5	54.7	40.2	28.7	25.5	27.8	26.7	27.8	30.5	30.2
85°	45.6	41.3	34.8	24.3	19.0	16.3	19.9	20.7	21.2	23.3	23.3
87.5°	26.4	24.3	18.3	11.5	9.4	8.7	11.5	11.1	13.1	14.4	14.1
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)