

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: P450736

Luminaire Tested: **GALN-SA1C-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7280 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

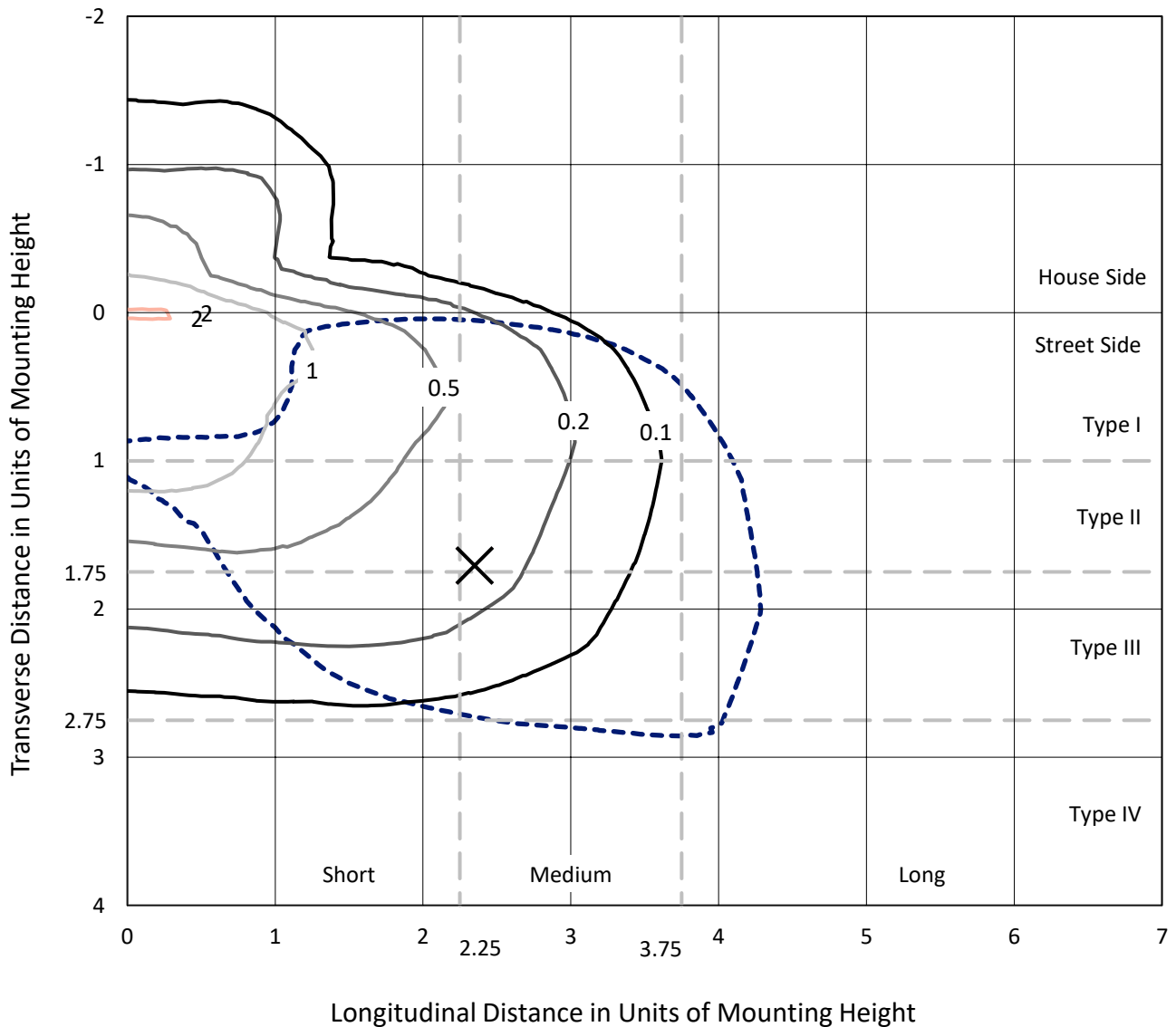
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

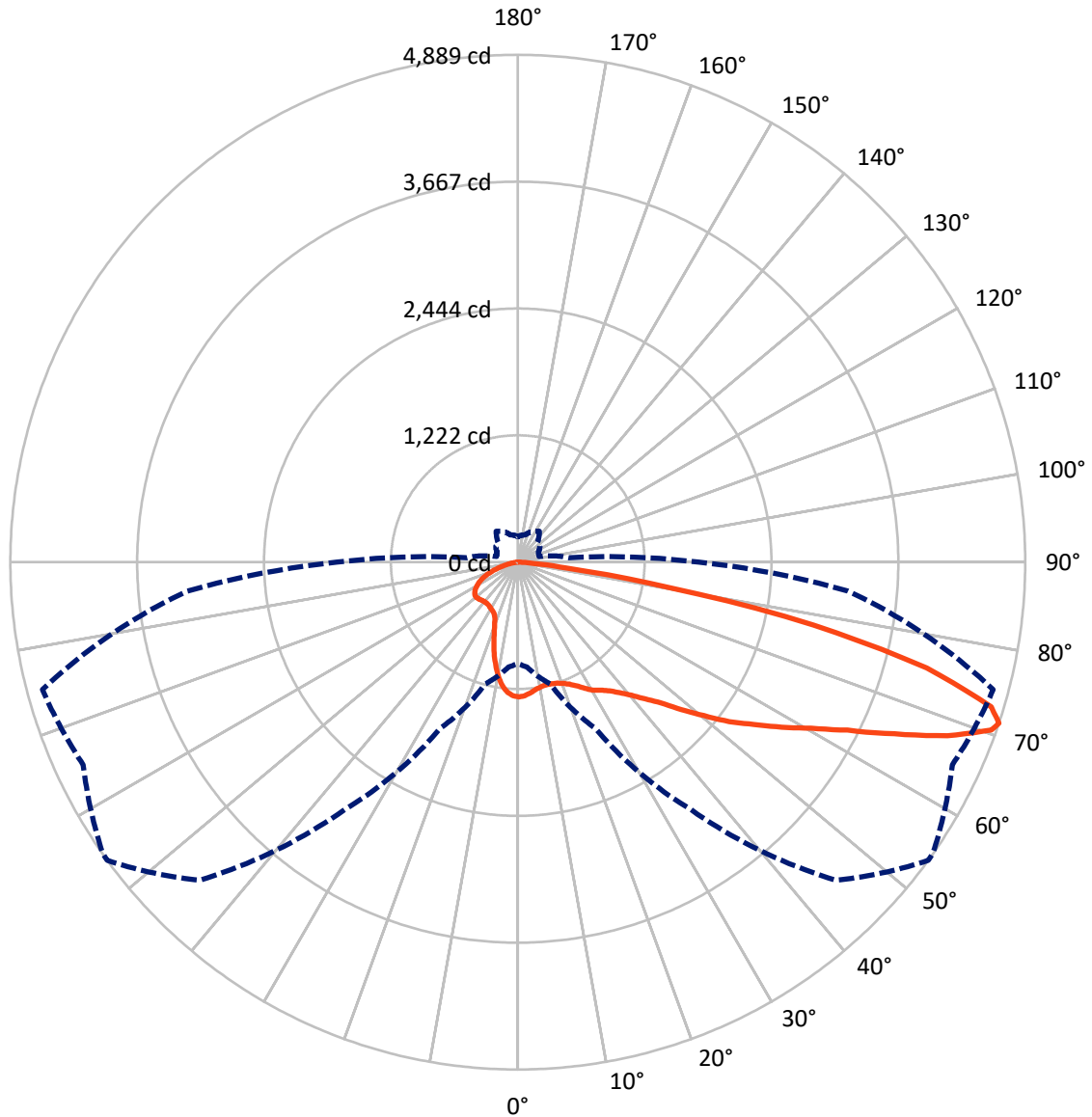
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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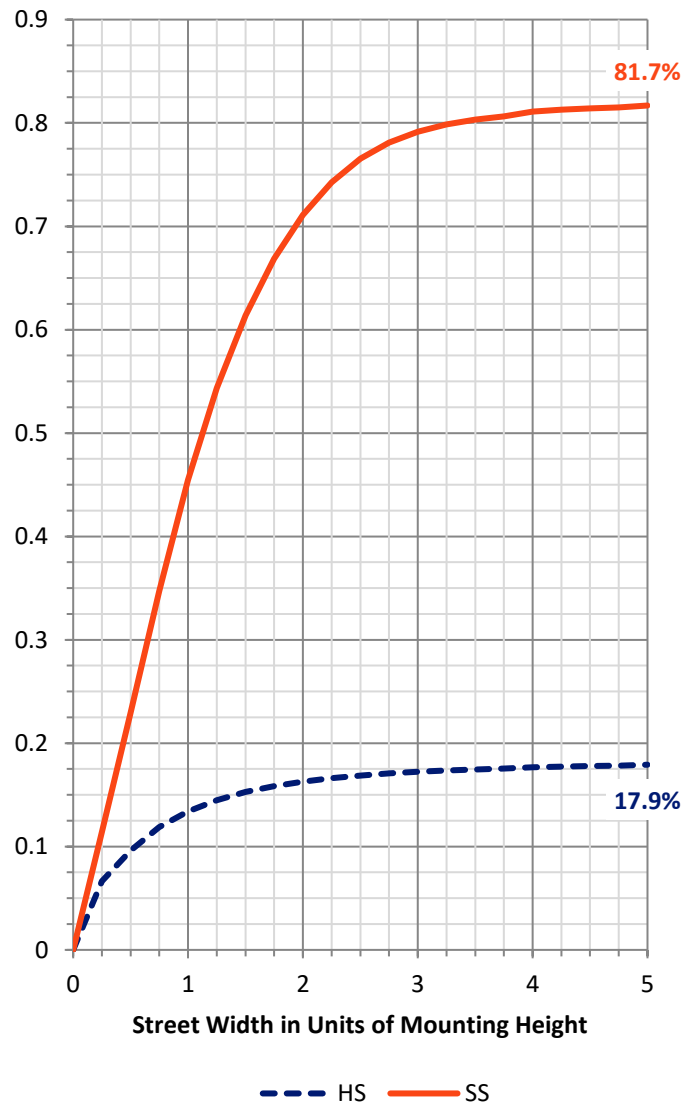
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1314.4	0.0	1314.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5965.6	0.0	5965.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	7280.0	0.0	7280.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	1.6
10°-20°	305.6	4.2
20°-30°	508.9	7.0
30°-40°	752.5	10.3
40°-50°	1059.9	14.6
50°-60°	1419.3	19.5
60°-70°	1788.9	24.6
70°-80°	1221.8	16.8
80°-90°	107.4	1.5
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°	7280.0	100.0
0°-180°	7280.0	100.0



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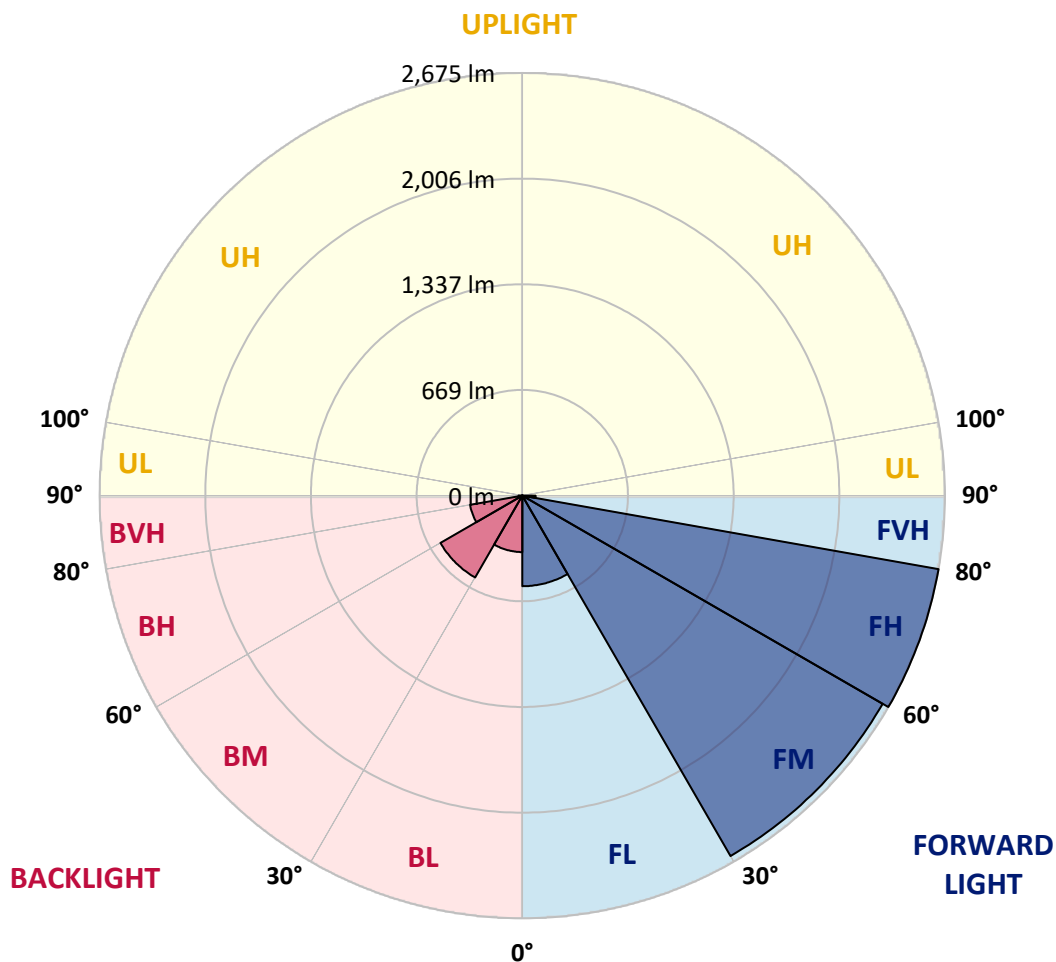
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	573.1	7.9			
FM	(30°-60°)	2633.6	36.2			
FH	(60°-80°)	2675.0	36.7			G2/5000
FVH	(80°-90°)	84.0	1.2			G1/100
BL	(0°-30°)	357.2	4.9	B1/500		
BM	(30°-60°)	598.0	8.2	B1/1000		
BH	(60°-80°)	335.7	4.6	B1/500		G1/500
BVH	(80°-90°)	23.5	0.3			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°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
2.5°	1254.8	1260.7	1262.3	1266.2	1274.5	1281.2	1287.8	1287.1	1296.5	1300.4	1304.0
5°	1199.0	1200.6	1206.4	1214.3	1228.9	1247.3	1265.4	1265.8	1289.0	1307.5	1316.6
7.5°	1158.1	1163.2	1167.1	1175.4	1190.7	1210.8	1239.5	1241.8	1283.1	1319.7	1339.0
10°	1131.3	1137.2	1141.6	1151.8	1167.1	1189.5	1220.6	1224.9	1278.8	1339.0	1372.8
12.5°	1107.0	1112.9	1116.8	1130.2	1150.2	1177.7	1212.7	1217.9	1280.4	1361.4	1409.8
15°	1121.9	1126.6	1125.0	1129.0	1142.4	1173.8	1215.9	1221.0	1286.3	1383.0	1446.3
17.5°	1188.4	1192.3	1179.3	1164.4	1158.1	1181.3	1225.7	1231.2	1298.1	1405.4	1483.7
20°	1286.3	1296.9	1268.6	1235.2	1204.9	1208.0	1246.2	1252.1	1314.6	1427.8	1521.8
22.5°	1413.7	1421.5	1386.9	1331.9	1276.1	1247.3	1276.8	1280.4	1339.4	1456.9	1563.5
25°	1563.5	1568.2	1520.3	1449.5	1368.9	1314.6	1318.9	1325.2	1380.3	1490.0	1600.5
27.5°	1709.0	1723.9	1668.5	1582.0	1475.8	1385.4	1376.7	1380.7	1424.7	1508.5	1626.0
30°	1881.6	1880.5	1821.9	1721.6	1585.5	1462.4	1431.4	1430.6	1448.7	1517.5	1644.5
32.5°	2019.3	2035.4	1978.0	1868.7	1711.0	1542.3	1469.1	1467.6	1467.2	1533.2	1672.0
35°	2175.8	2178.1	2125.4	2015.3	1846.6	1642.5	1521.8	1514.0	1504.9	1567.0	1709.4
37.5°	2315.8	2326.8	2278.4	2154.9	1979.9	1746.8	1594.2	1589.1	1561.5	1625.6	1769.2
40°	2425.1	2433.3	2404.2	2286.7	2111.3	1859.2	1686.2	1676.8	1643.3	1721.6	1849.0
42.5°	2460.9	2477.8	2489.2	2431.4	2262.3	1992.5	1799.4	1787.7	1762.1	1867.1	1941.0
45°	2463.6	2490.4	2550.5	2553.3	2414.1	2152.2	1931.6	1923.3	1921.4	2053.5	2070.4
47.5°	2442.8	2469.9	2571.0	2625.6	2549.4	2313.4	2122.3	2109.3	2110.5	2283.9	2215.5
50°	2392.5	2424.7	2547.4	2672.0	2655.1	2480.9	2323.6	2319.3	2343.7	2547.0	2366.1
52.5°	2297.7	2336.6	2523.0	2701.1	2733.8	2625.2	2552.5	2540.3	2602.0	2832.5	2530.9
55°	2035.4	2094.0	2433.7	2717.3	2808.5	2763.3	2758.6	2780.6	2862.4	3143.9	2712.2
57.5°	1898.5	1942.6	2239.9	2720.0	2902.9	2923.7	2999.2	3004.7	3147.9	3474.6	2917.0
60°	1823.8	1862.8	2133.7	2701.9	3034.6	3122.3	3245.4	3265.0	3426.7	3832.9	3129.4
62.5°	1758.6	1792.0	2070.0	2639.4	3183.2	3416.8	3564.3	3573.7	3743.2	4228.5	3339.0
65°	1604.8	1642.9	1941.8	2576.9	3311.4	3784.9	3987.4	3976.4	4080.2	4569.8	3470.3
67.5°	1397.6	1445.9	1702.3	2361.0	3374.8	4187.2	4464.0	4450.3	4412.9	4793.6	3508.1
70°	1132.9	1158.9	1396.0	1987.8	3121.9	4398.3	4840.3	4825.8	4619.0	4823.0	3329.5
71°	974.8	1015.3	1215.5	1765.6	2911.5	4333.9	4888.7	4884.8	4619.3	4741.6	3195.0
72.5°	760.9	785.7	962.6	1368.1	2474.6	3967.4	4769.2	4784.1	4519.1	4515.5	2917.8
75°	481.3	492.3	604.0	805.3	1357.8	2809.7	4071.2	4111.7	4012.6	3696.0	2169.9
77.5°	279.6	293.7	361.8	474.6	586.7	1525.0	2913.1	2957.1	2788.0	2035.0	888.3
80°	162.8	178.5	238.3	275.7	269.4	565.9	1483.3	1558.4	1207.2	514.0	249.3
82.5°	90.4	101.1	167.5	167.9	143.5	184.8	466.8	488.4	344.5	207.2	101.8
85°	65.7	74.3	108.1	97.9	68.8	79.4	162.4	170.3	139.2	87.3	33.0
87.5°	23.2	33.0	59.4	47.2	18.9	16.5	46.8	38.1	35.4	24.4	7.5
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°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
2.5°	1305.9	1306.7	1302.8	1295.7	1288.6	1279.6	1269.4	1261.5	1258.0	1257.6	1257.2
5°	1320.1	1322.1	1307.1	1285.1	1260.7	1230.8	1205.3	1176.2	1168.7	1156.9	1160.4
7.5°	1342.9	1341.7	1312.2	1265.4	1208.4	1145.1	1091.6	1060.6	1028.3	1019.3	1019.7
10°	1375.5	1368.1	1312.2	1225.3	1130.2	1036.2	961.5	914.3	888.7	867.5	859.6
12.5°	1410.1	1391.3	1299.6	1169.1	1029.5	914.3	834.1	770.4	753.8	736.5	736.9
15°	1443.2	1411.7	1274.9	1090.1	921.0	784.1	706.3	668.1	663.0	665.0	664.6
17.5°	1473.1	1426.3	1237.1	1002.0	794.3	672.4	631.1	633.9	647.7	657.5	658.7
20°	1503.3	1434.9	1180.9	884.0	674.8	604.8	606.4	628.0	648.8	662.2	664.2
22.5°	1532.0	1438.9	1114.8	770.0	588.3	576.1	599.3	622.5	642.9	655.9	657.9
25°	1550.9	1429.8	1021.2	650.8	545.8	565.9	590.2	609.9	627.2	640.6	643.7
27.5°	1556.0	1400.7	905.2	554.5	526.2	556.0	578.5	593.0	606.4	619.0	621.3
30°	1553.3	1357.8	777.8	497.8	514.7	544.6	561.9	572.6	588.7	598.5	600.5
32.5°	1549.0	1307.9	644.9	467.6	505.3	534.0	544.2	553.7	553.3	549.4	552.1
35°	1550.5	1248.1	537.2	449.5	497.1	526.2	534.8	523.0	489.2	487.6	486.0
37.5°	1558.8	1189.1	458.9	436.9	492.7	525.0	529.7	475.4	445.5	431.8	428.2
40°	1580.0	1120.3	407.4	427.4	492.3	534.0	506.5	451.4	394.0	367.3	365.3
42.5°	1608.3	1052.7	375.9	421.5	497.1	547.8	497.1	417.6	355.1	339.4	337.0
45°	1650.4	975.2	358.6	418.8	504.1	552.9	493.9	392.8	339.4	326.8	326.8
47.5°	1698.0	901.3	349.2	416.8	513.2	549.4	466.0	385.0	331.9	333.5	340.9
50°	1745.2	837.2	342.1	412.5	521.0	547.4	454.6	384.6	333.9	353.9	367.3
52.5°	1799.8	792.0	333.5	405.4	521.0	534.8	451.0	392.4	339.4	345.3	351.2
55°	1865.9	777.8	322.5	390.1	511.6	503.3	449.1	403.9	343.3	329.5	331.9
57.5°	1953.2	800.6	311.8	370.8	490.0	470.7	448.3	407.0	334.3	322.8	320.5
60°	2054.7	845.9	308.7	351.2	460.5	442.8	443.6	398.0	321.7	309.9	311.8
62.5°	2125.8	873.0	306.7	336.2	428.2	412.1	432.2	386.9	316.2	305.9	307.9
65°	2125.8	840.0	288.6	313.4	386.6	375.1	418.4	373.2	309.1	297.3	295.3
67.5°	2045.2	743.6	261.1	279.2	340.5	333.1	399.1	356.7	298.5	289.4	284.7
70°	1835.2	563.9	226.5	239.1	282.3	289.0	374.4	334.3	280.8	269.8	262.7
71°	1742.8	491.2	212.0	218.6	259.9	269.8	362.6	324.8	272.9	257.2	244.6
72.5°	1564.7	413.7	189.9	192.7	222.2	239.9	337.8	306.7	258.0	235.5	221.4
75°	1188.8	302.0	153.0	151.4	164.4	190.3	285.9	273.3	226.1	195.8	187.6
77.5°	513.6	164.4	114.4	115.6	111.7	144.3	224.9	234.8	193.9	159.3	151.8
80°	155.7	94.8	78.3	79.8	74.7	96.7	158.5	184.0	155.7	123.9	113.6
82.5°	79.8	56.6	53.5	52.7	47.6	54.7	95.9	125.8	111.3	77.5	68.4
85°	34.6	30.3	26.3	25.6	22.4	19.7	34.2	62.9	59.0	43.3	41.3
87.5°	8.7	7.9	5.1	4.7	2.8	0.4	0.0	0.0	0.0	0.0	0.0
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)