

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: P651176

Luminaire Tested: **GALN-SA1D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5387.4 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

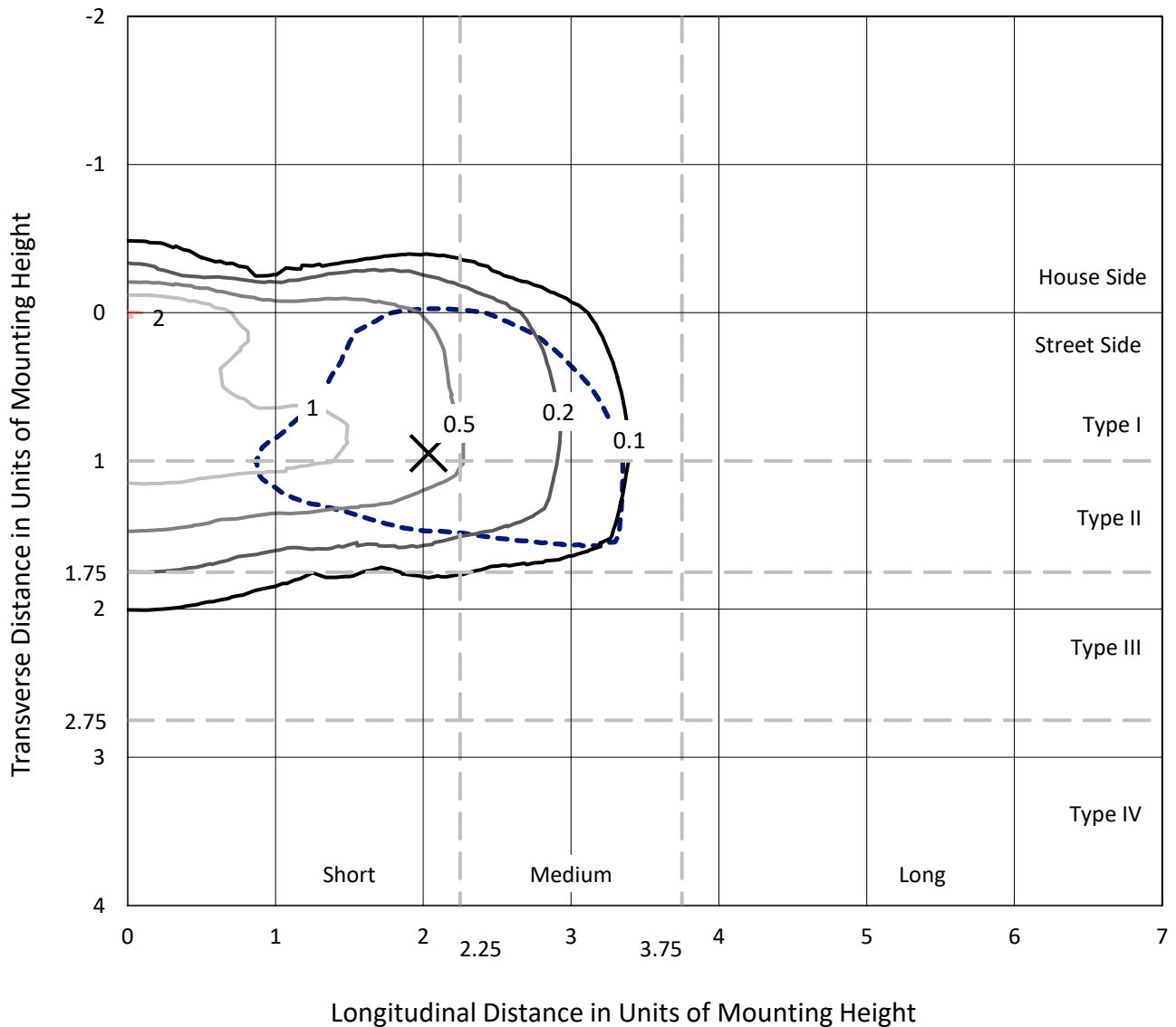
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

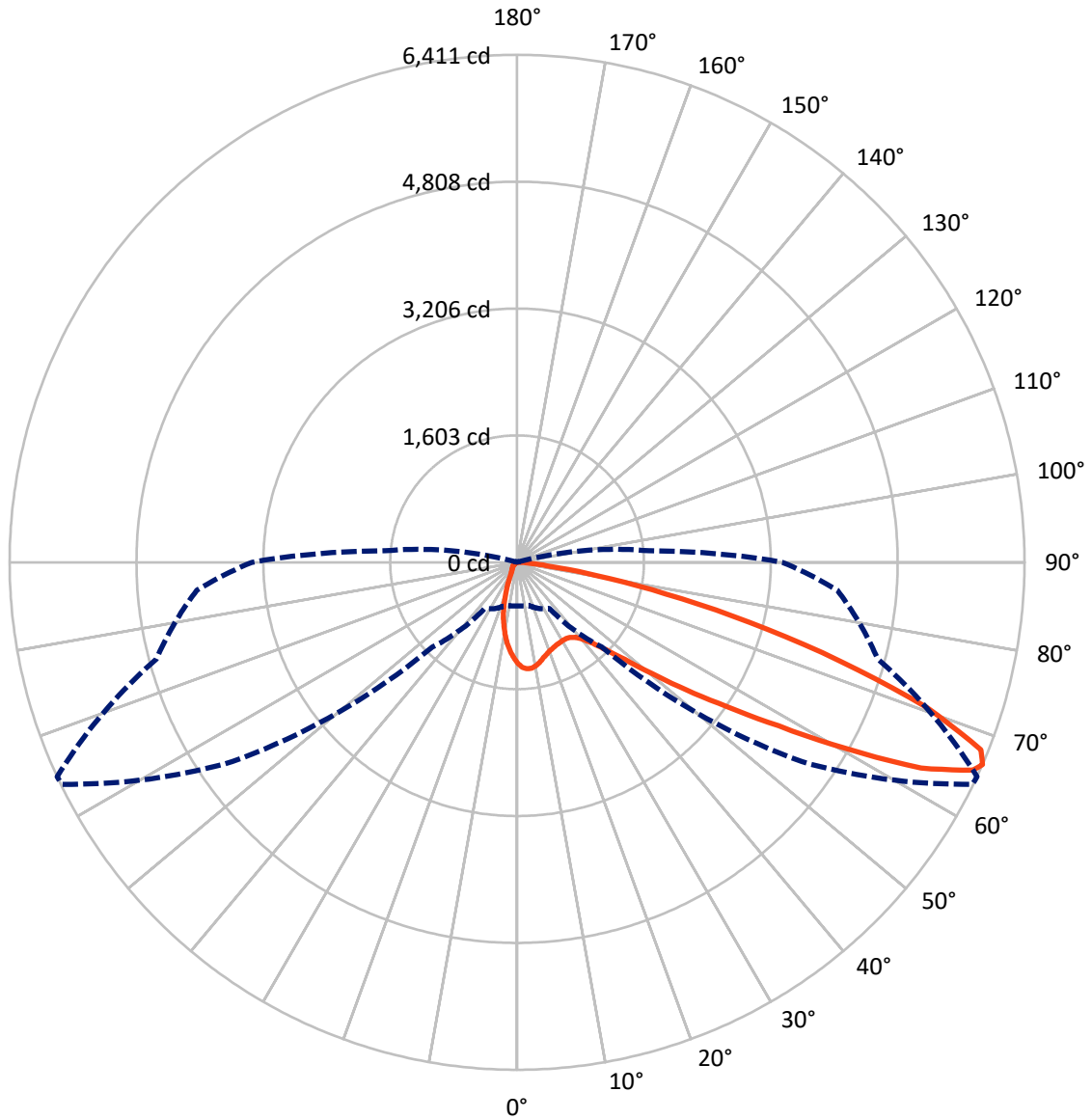
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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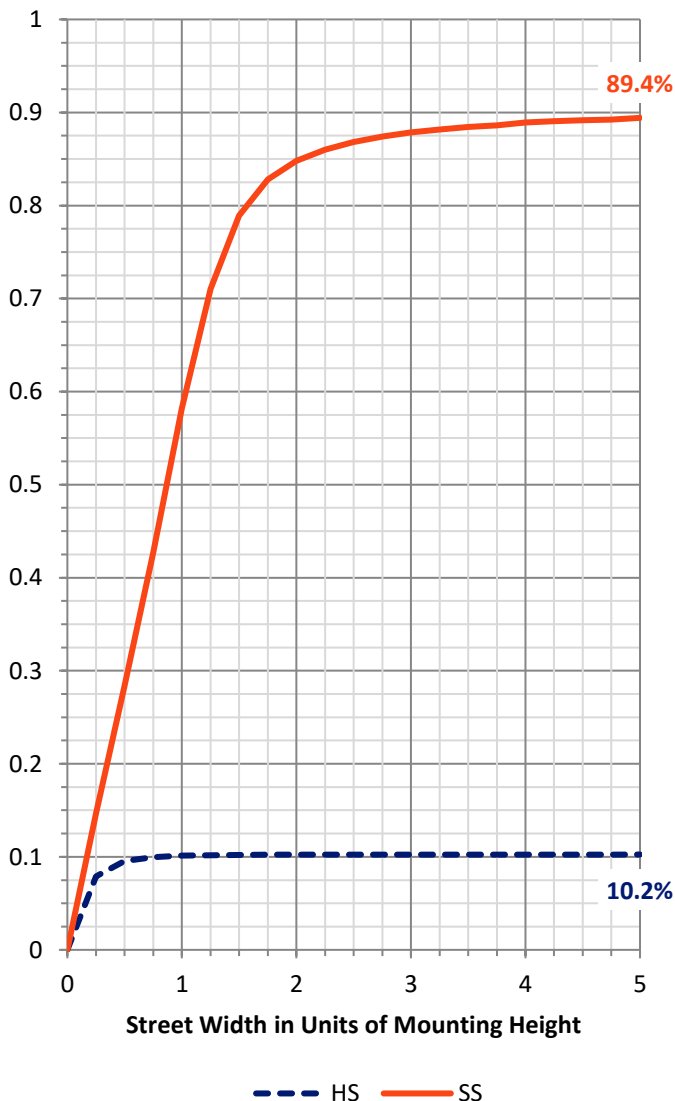
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	557.1	0.0	557.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	4830.3	0.0	4830.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	5387.4	0.0	5387.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.9
10°-20°	227.7	4.2
20°-30°	326.1	6.1
30°-40°	476.3	8.8
40°-50°	798.7	14.8
50°-60°	1332.9	24.7
60°-70°	1414.9	26.3
70°-80°	640.8	11.9
80°-90°	65.6	1.2
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°	5387.4	100.0
0°-180°	5387.4	100.0

Coefficient of Utilization

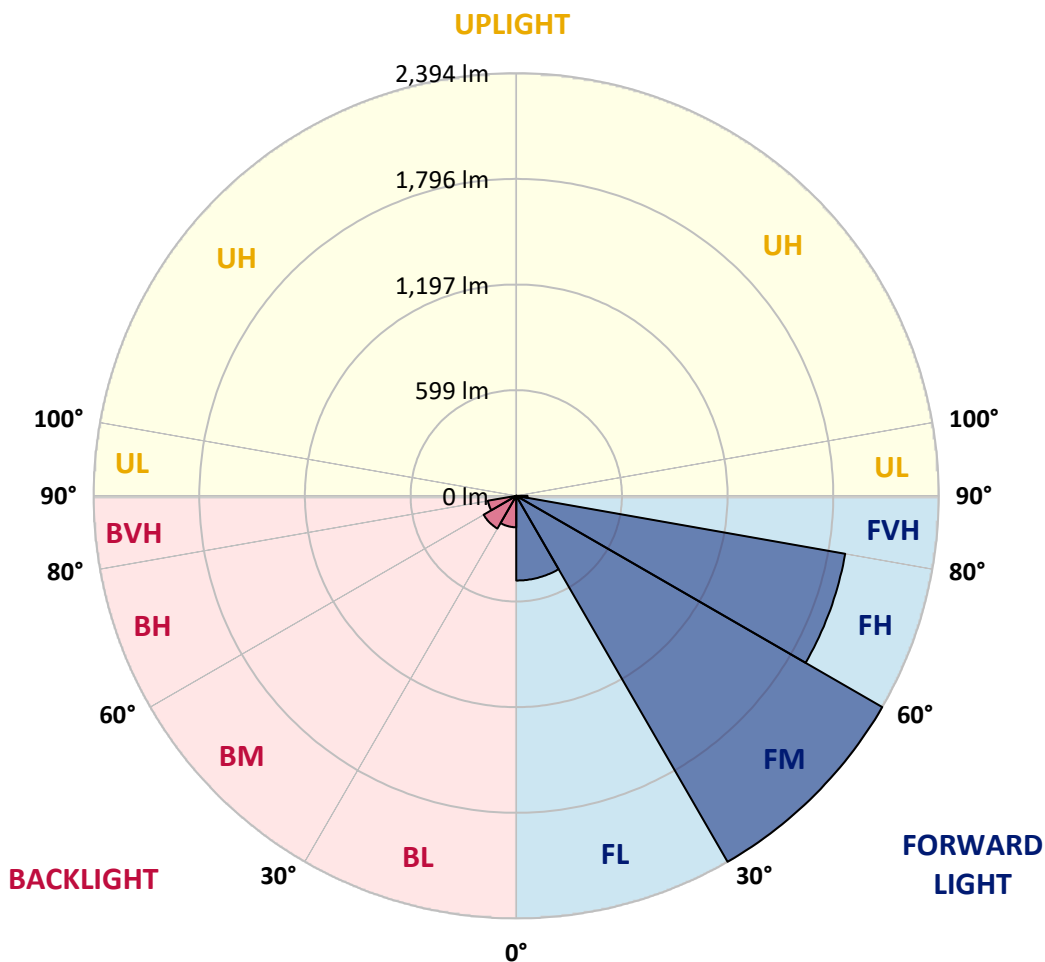


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.0	8.9			
FM (30°-60°)	2394.3	44.4			
FH (60°-80°)	1892.5	35.1			G2/5000
FVH (80°-90°)	63.5	1.2			G1/100
BL (0°-30°)	178.2	3.3	B1/500		
BM (30°-60°)	213.7	4.0	B0/220		
BH (60°-80°)	163.2	3.0	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6
2.5°	1346.4	1347.8	1349.6	1352.2	1354.0	1348.5	1340.9	1332.1	1330.3	1311.8	1289.2
5°	1274.3	1276.5	1292.4	1301.2	1320.9	1338.7	1350.0	1351.4	1350.7	1333.2	1297.2
7.5°	1171.7	1177.8	1193.5	1208.8	1245.5	1279.4	1319.4	1347.5	1349.2	1344.5	1299.8
10°	1088.3	1092.4	1100.4	1130.6	1161.1	1212.8	1268.8	1321.6	1325.9	1344.8	1297.6
12.5°	1023.2	1029.0	1038.9	1062.2	1098.9	1147.6	1211.4	1282.3	1291.4	1337.9	1291.4
15°	977.7	980.6	990.4	1013.4	1049.1	1094.1	1158.6	1241.1	1249.2	1328.9	1290.3
17.5°	956.3	959.5	966.5	984.6	1014.1	1056.0	1119.0	1208.1	1218.3	1323.1	1294.3
20°	962.1	965.0	965.4	974.8	994.8	1030.1	1089.8	1177.1	1190.3	1319.4	1300.9
22.5°	995.2	995.6	991.2	986.8	993.7	1019.2	1071.9	1157.5	1170.9	1318.7	1308.5
25°	1044.7	1045.8	1038.5	1023.2	1009.4	1022.5	1068.0	1144.8	1156.8	1316.8	1313.2
27.5°	1113.1	1112.7	1110.5	1085.1	1045.8	1037.0	1071.3	1137.9	1148.0	1311.8	1315.1
30°	1208.8	1205.9	1201.1	1172.4	1112.4	1072.4	1085.1	1133.5	1142.9	1304.5	1310.3
32.5°	1303.0	1314.0	1313.2	1286.0	1211.0	1135.3	1113.8	1139.3	1146.2	1299.8	1303.4
35°	1413.0	1412.5	1440.5	1430.4	1342.7	1215.7	1162.9	1158.6	1164.0	1303.0	1300.1
37.5°	1514.8	1524.2	1568.0	1578.5	1498.4	1329.2	1232.4	1200.0	1201.9	1325.2	1308.1
40°	1641.8	1660.0	1725.1	1760.4	1689.8	1497.7	1335.1	1276.1	1276.5	1379.8	1338.4
42.5°	1805.5	1834.3	1895.0	1954.0	1916.1	1697.1	1489.0	1396.6	1395.8	1475.9	1407.5
45°	2004.6	2024.6	2093.8	2187.3	2163.2	1975.5	1713.1	1583.2	1573.8	1633.4	1530.1
47.5°	2176.3	2203.6	2273.8	2380.5	2489.6	2315.4	1980.9	1839.8	1833.5	1884.2	1740.4
50°	2251.3	2275.3	2349.2	2498.7	2763.3	2761.4	2379.8	2214.2	2203.6	2230.9	2065.7
52.5°	2169.0	2191.6	2266.2	2452.5	2892.0	3305.0	2957.5	2684.0	2671.2	2636.3	2454.3
55°	1887.5	1906.0	2016.2	2230.2	2842.6	3667.5	3753.7	3264.3	3214.8	3079.1	2894.2
57.5°	1502.8	1493.4	1561.7	1810.3	2552.2	3789.0	4571.0	3987.3	3898.9	3461.9	3266.5
60°	1041.4	1070.5	1098.2	1261.9	1919.1	3578.4	5079.3	4896.3	4779.8	3838.5	3623.1
62.5°	765.6	784.9	803.1	878.8	1206.6	2857.1	5169.2	5830.0	5726.6	4238.4	3963.3
65°	605.5	606.9	614.2	688.8	795.1	1857.9	4737.3	6356.5	6330.0	4623.4	4101.2
66°	551.6	552.0	563.3	643.4	713.6	1513.0	4391.2	6396.6	6411.1	4715.8	4060.9
67.5°	482.1	480.7	497.0	578.2	649.8	1090.9	3771.9	6234.2	6320.5	4786.8	3915.6
70°	373.7	371.9	391.9	485.0	598.5	727.7	2507.1	5353.0	5492.0	4641.6	3464.4
72.5°	248.9	250.4	284.5	382.8	571.3	640.8	1508.2	4072.1	4268.6	3833.0	2725.4
75°	145.2	147.8	186.7	284.5	495.9	611.0	853.6	2903.7	3029.3	2646.8	1697.8
77.5°	76.0	77.1	104.5	187.8	380.2	567.3	568.8	1855.0	1913.9	1286.3	672.0
80°	40.4	39.3	56.0	113.2	261.6	498.1	461.4	982.1	1021.1	382.1	170.0
82.5°	15.3	16.7	29.9	74.3	154.7	357.7	397.4	434.1	420.7	84.0	71.3
85°	2.9	3.6	12.7	44.1	77.9	149.5	292.9	212.9	197.2	31.6	41.1
87.5°	0.3	0.8	3.6	10.5	11.3	50.5	86.6	59.0	51.0	11.6	17.1
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°	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6	1277.6
2.5°	1278.3	1268.5	1235.7	1203.3	1170.3	1140.4	1120.0	1086.9	1078.5	1066.6	1059.6
5°	1275.7	1252.8	1189.8	1121.1	1057.1	987.9	935.2	884.2	856.9	843.1	838.0
7.5°	1268.5	1232.1	1133.8	1026.1	923.5	820.1	730.3	661.9	617.9	587.7	567.3
10°	1253.9	1203.7	1068.7	920.6	765.6	629.2	515.3	428.7	361.7	340.6	341.3
12.5°	1239.0	1172.0	995.9	803.4	611.3	439.2	318.4	249.9	218.0	207.4	205.2
15°	1225.2	1141.8	924.6	689.9	455.2	284.5	205.2	181.2	172.5	170.6	170.3
17.5°	1217.9	1113.8	848.6	560.0	317.6	193.2	164.5	157.9	155.3	153.6	152.8
20°	1211.7	1089.4	775.7	438.5	217.2	158.3	147.3	141.2	136.8	135.0	133.9
22.5°	1207.3	1064.4	700.5	339.5	166.3	140.4	130.6	122.6	116.5	114.3	112.8
25°	1200.8	1036.7	624.4	248.2	140.1	124.8	113.5	104.0	96.0	92.1	91.3
27.5°	1191.4	1005.4	541.1	183.8	125.1	111.0	97.1	85.5	77.5	73.2	73.5
30°	1176.1	972.6	457.8	145.9	113.2	96.8	81.9	70.6	63.0	59.7	59.3
32.5°	1157.9	933.0	381.3	125.1	102.3	84.0	68.4	58.6	52.7	50.2	49.9
35°	1140.7	893.0	303.4	112.4	91.0	72.4	57.5	49.1	44.7	42.6	43.0
37.5°	1131.3	857.3	236.5	102.3	81.9	62.2	49.5	42.2	38.2	36.4	36.0
40°	1137.5	828.2	188.1	93.2	71.7	53.5	42.6	36.4	32.4	29.9	29.9
42.5°	1166.6	815.4	151.7	84.4	62.2	46.2	37.1	31.3	26.9	24.4	24.7
45°	1255.4	828.9	127.0	76.4	53.5	40.0	32.0	25.8	21.9	20.0	19.7
47.5°	1402.7	879.5	109.9	68.0	45.8	34.2	26.9	21.4	17.5	16.0	15.6
50°	1660.4	983.9	97.1	59.7	38.9	29.1	22.2	17.1	13.8	12.4	12.4
52.5°	2014.8	1211.7	88.1	50.2	32.7	24.7	18.2	13.8	10.9	9.8	9.4
55°	2385.2	1451.8	83.3	42.2	27.3	20.4	14.5	10.9	8.4	7.3	6.9
57.5°	2741.4	1640.4	77.9	34.2	21.9	15.6	11.3	8.4	5.8	5.1	4.7
60°	3083.1	1792.8	66.2	27.3	17.1	11.3	8.4	5.8	4.0	3.3	3.3
62.5°	3388.7	1881.6	52.1	21.9	13.1	8.0	5.5	4.4	2.9	2.2	2.2
65°	3424.4	1766.3	39.3	16.7	9.4	5.1	3.3	3.3	2.2	1.4	1.4
66°	3352.7	1668.4	34.6	15.3	8.4	4.4	2.9	2.5	1.9	1.1	1.1
67.5°	3192.6	1501.4	29.9	13.1	6.9	3.3	2.2	2.2	1.4	0.8	0.8
70°	2758.6	1226.3	23.6	9.8	5.1	2.5	1.4	1.4	1.1	0.8	0.8
72.5°	2102.5	915.5	19.3	7.3	3.6	1.9	1.1	1.1	1.1	0.8	0.8
75°	1268.1	493.1	14.9	5.5	3.3	1.4	0.8	1.1	1.4	1.1	0.8
77.5°	467.2	167.8	11.6	4.4	2.5	1.4	0.8	0.8	1.4	1.1	1.1
80°	114.6	43.6	8.4	3.6	2.5	1.4	0.8	0.8	1.4	1.4	1.4
82.5°	53.2	18.6	5.8	3.3	2.5	1.4	0.8	0.8	1.1	1.4	1.4
85°	30.5	8.7	4.7	3.6	2.5	1.4	0.8	0.8	1.1	1.4	1.4
87.5°	12.4	4.4	4.4	3.6	2.9	1.9	0.8	0.8	0.8	1.1	1.1
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)