

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: P451198

Luminaire Tested: **GALN-SA2A-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9120 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

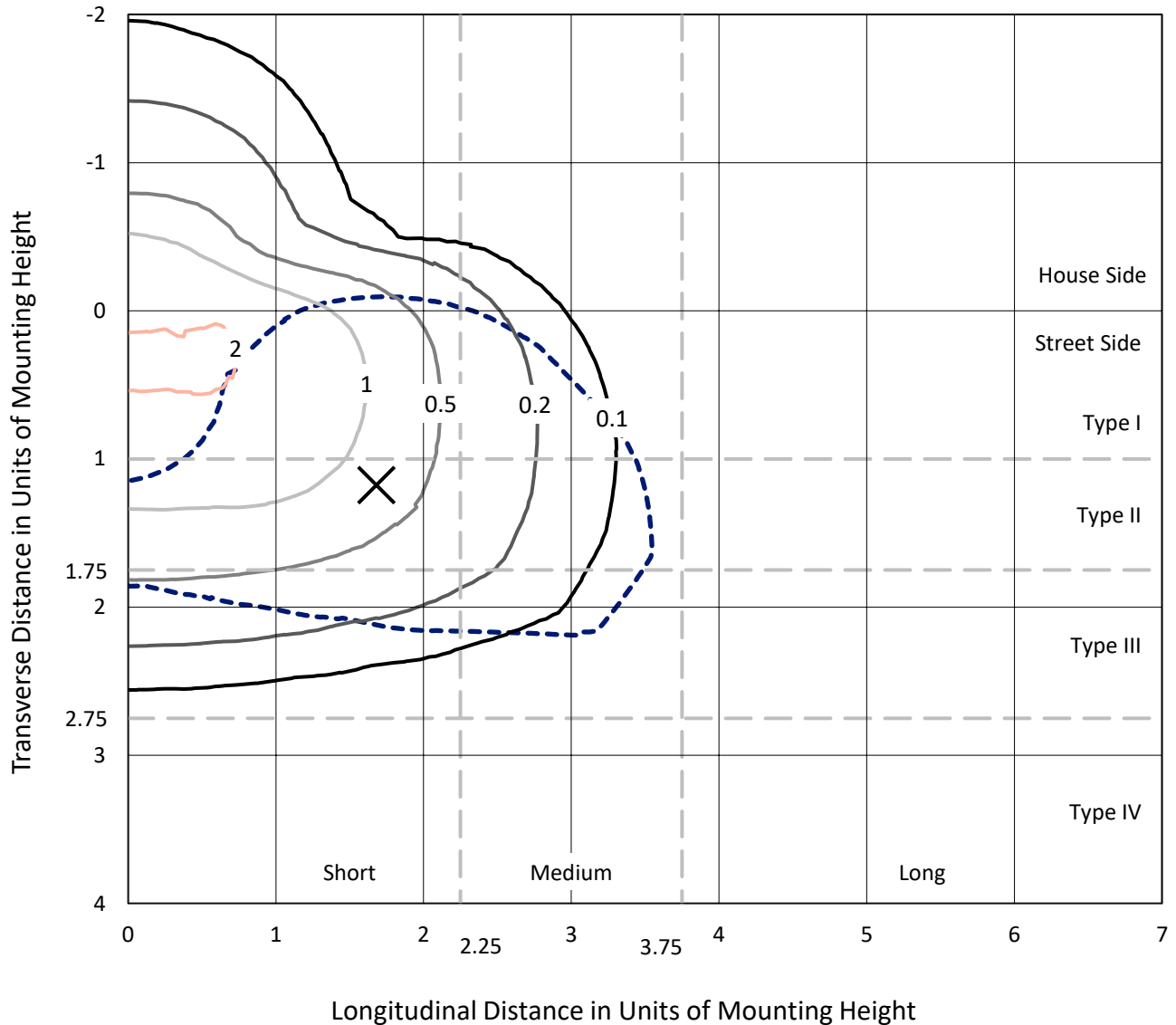
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

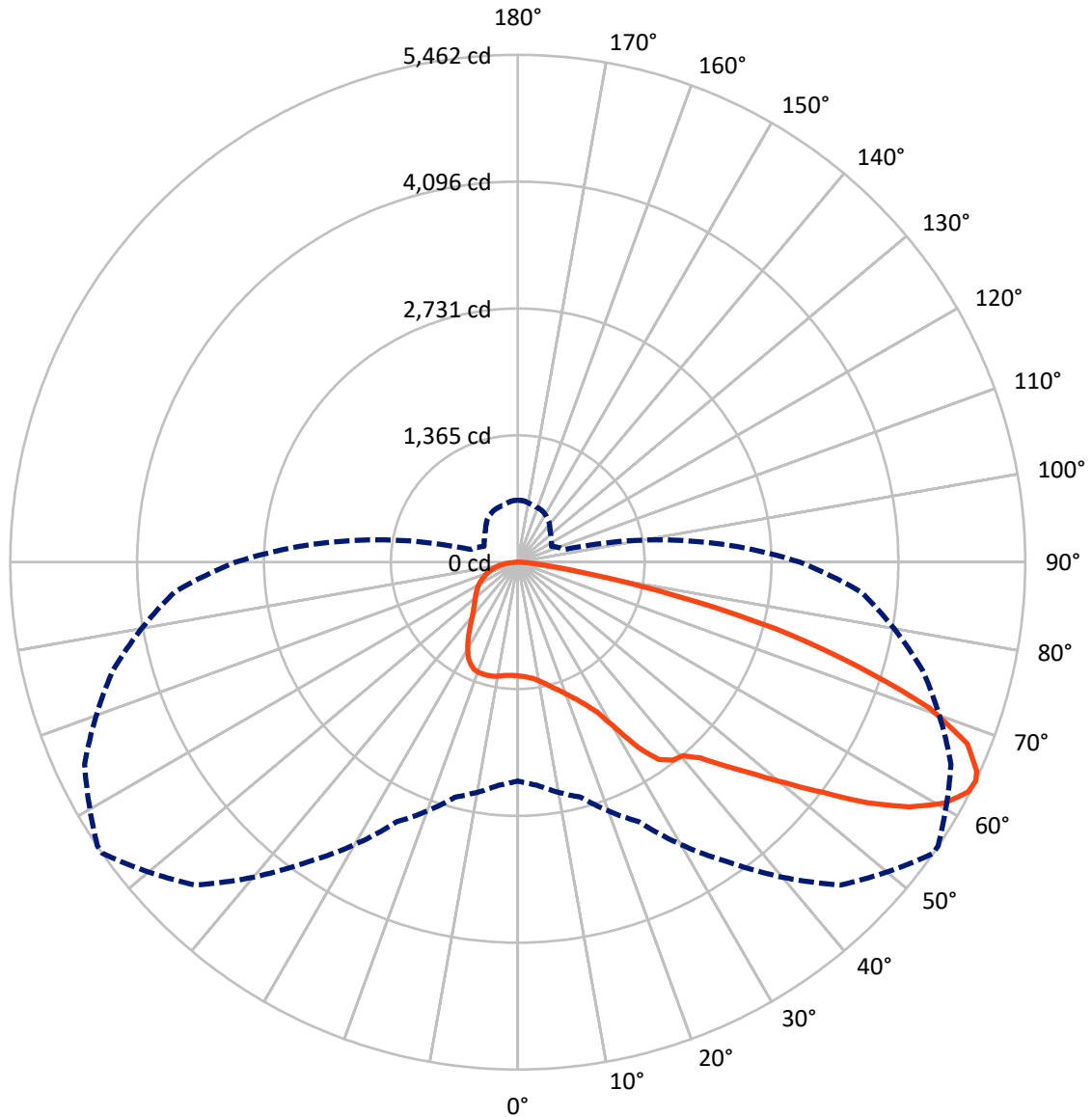
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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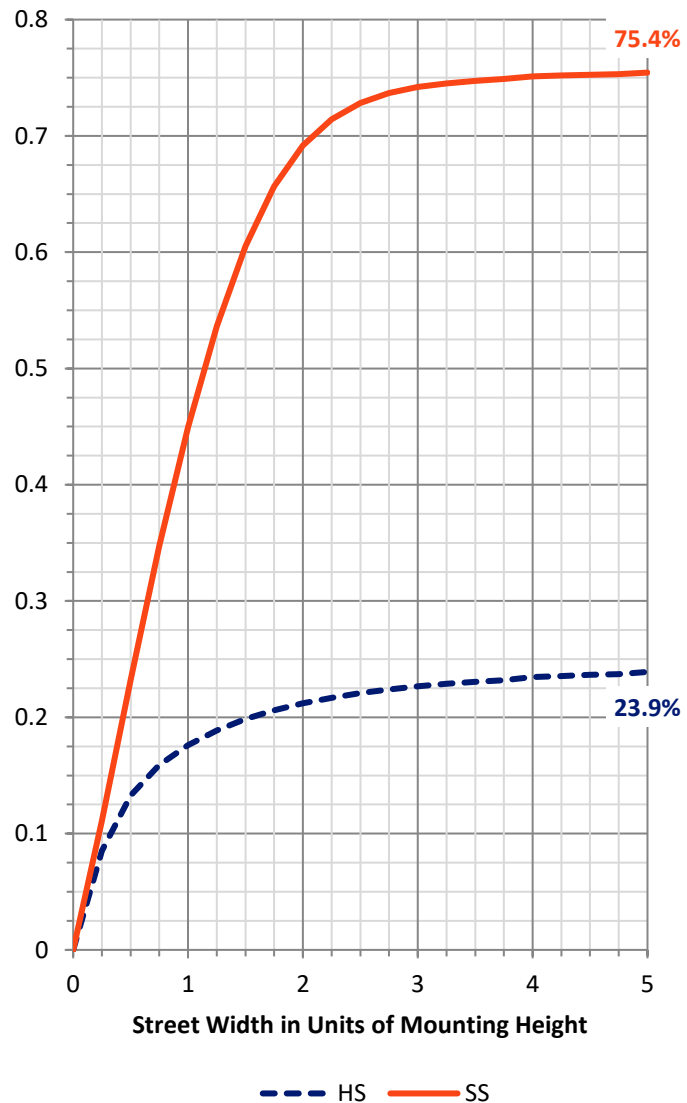
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2215.4	0.0	2215.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	6904.6	0.0	6904.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	9120.0	0.0	9120.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.3
10°-20°	375.6	4.1
20°-30°	668.6	7.3
30°-40°	1028.7	11.3
40°-50°	1458.3	16.0
50°-60°	2110.8	23.1
60°-70°	2184.5	24.0
70°-80°	1023.0	11.2
80°-90°	151.4	1.7
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°	9120.0	100.0
0°-180°	9120.0	100.0



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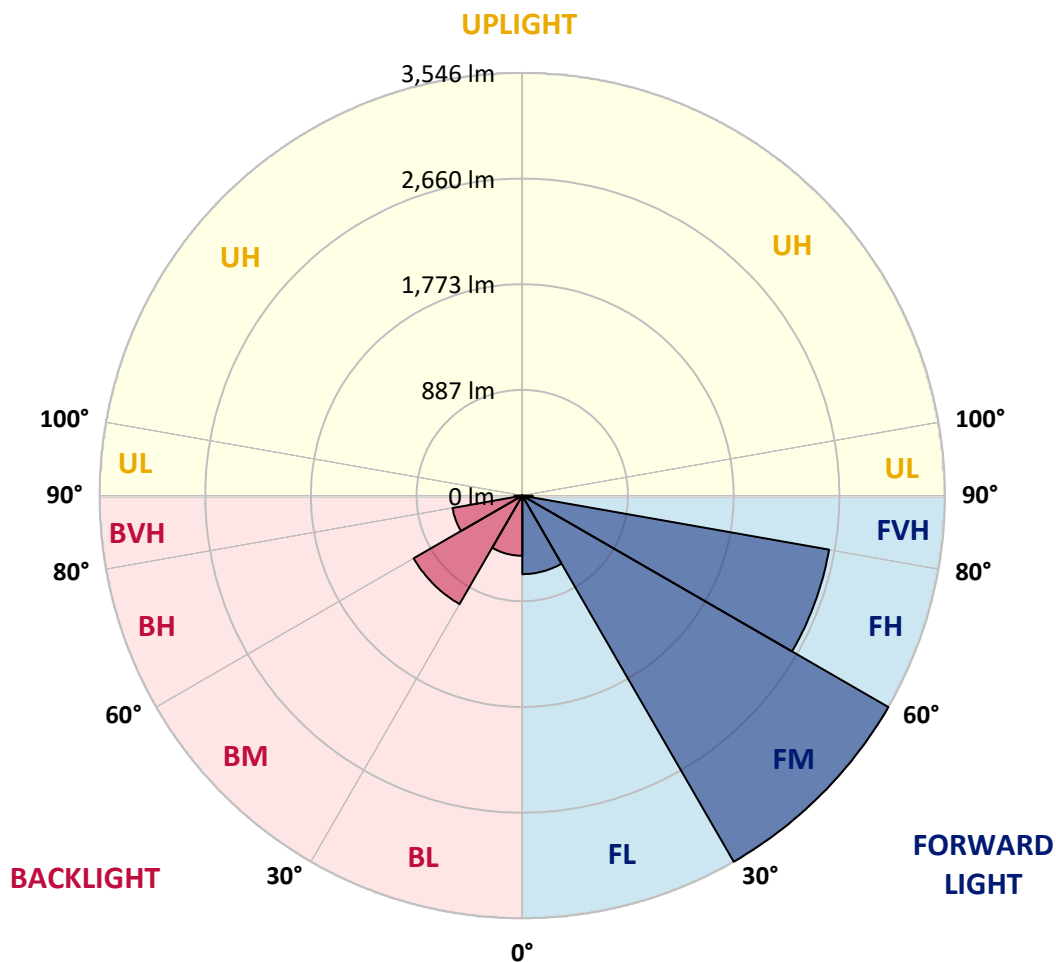
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.6	7.2			
FM	(30°-60°)	3546.1	38.9			
FH	(60°-80°)	2613.1	28.7			G2/5000
FVH	(80°-90°)	86.7	1.0			G1/100
BL	(0°-30°)	504.6	5.5	B2/1000		
BM	(30°-60°)	1051.7	11.5	B2/2500		
BH	(60°-80°)	594.4	6.5	B2/1000		G2/1000
BVH	(80°-90°)	64.7	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6
2.5°	1237.4	1236.8	1238.4	1236.8	1237.9	1234.3	1232.8	1233.8	1232.3	1229.7	1225.2
5°	1252.6	1252.1	1252.6	1250.6	1251.6	1249.6	1246.0	1247.0	1244.5	1238.9	1232.3
7.5°	1278.5	1276.5	1276.5	1276.0	1274.0	1270.9	1268.4	1267.3	1264.8	1257.7	1247.5
10°	1312.1	1312.1	1312.6	1308.5	1311.1	1305.5	1302.9	1302.4	1293.8	1284.6	1270.4
12.5°	1356.3	1358.9	1357.3	1355.3	1354.3	1352.2	1343.6	1345.6	1336.0	1320.2	1302.9
15°	1411.2	1415.3	1412.7	1411.7	1409.2	1401.6	1398.0	1396.5	1383.8	1360.9	1338.0
17.5°	1483.9	1478.8	1476.8	1474.3	1463.6	1458.0	1451.9	1450.9	1439.7	1412.7	1377.2
20°	1547.5	1554.6	1550.5	1548.0	1537.3	1526.6	1522.0	1520.5	1510.9	1481.4	1424.4
22.5°	1623.2	1624.7	1626.3	1620.2	1615.1	1606.9	1598.8	1596.3	1592.7	1562.2	1492.6
25°	1704.0	1710.1	1705.0	1698.9	1692.8	1692.3	1700.0	1698.9	1697.4	1667.9	1583.0
27.5°	1835.7	1841.3	1842.8	1836.2	1812.8	1814.9	1832.1	1837.7	1861.1	1812.3	1699.5
30°	1909.9	1915.5	1928.2	1953.1	1990.2	2022.8	2064.5	2077.2	2099.5	2007.5	1837.7
32.5°	1955.7	1957.7	1980.6	2026.8	2138.2	2259.7	2373.0	2377.6	2391.8	2262.7	1964.3
35°	2027.9	2029.4	2047.7	2098.5	2229.2	2431.5	2606.9	2612.5	2600.8	2342.0	2023.3
37.5°	2116.8	2120.9	2132.6	2174.8	2330.8	2575.4	2704.0	2699.9	2596.2	2405.1	2127.5
40°	2246.5	2246.5	2232.7	2289.7	2438.1	2657.7	2738.0	2730.9	2703.5	2587.6	2286.1
42.5°	2360.8	2358.8	2391.3	2430.0	2572.3	2784.8	2880.9	2892.6	2937.8	2816.8	2466.6
45°	2509.8	2518.9	2537.2	2607.4	2800.6	3001.9	3125.9	3137.1	3201.2	3086.8	2677.5
47.5°	2660.3	2663.3	2720.8	2814.3	3083.2	3296.2	3397.9	3416.2	3474.7	3402.5	2904.8
50°	2767.0	2796.0	2888.0	3035.4	3374.5	3655.1	3734.4	3756.3	3859.5	3746.1	3169.6
52.5°	2879.9	2908.3	3020.7	3245.4	3709.0	4022.2	4119.8	4134.5	4241.8	4093.8	3440.6
55°	2976.5	3002.9	3130.5	3431.4	3975.4	4396.8	4573.7	4556.5	4607.8	4361.8	3649.5
57.5°	2992.2	3013.6	3174.2	3550.4	4175.7	4718.1	4971.8	4982.0	4922.5	4562.0	3821.9
60°	2870.2	2913.9	3098.5	3537.7	4265.7	4941.8	5268.7	5275.8	5107.0	4664.7	3890.5
62.5°	2654.2	2649.6	2872.8	3333.3	4139.6	4992.6	5443.5	5435.9	5179.2	4615.4	3823.9
64°	2355.8	2410.7	2619.1	3082.2	3936.3	4914.3	5461.8	5457.8	5144.6	4512.7	3710.5
65°	2173.8	2170.7	2376.6	2876.8	3733.9	4796.4	5429.3	5423.7	5072.4	4420.7	3622.6
67.5°	1569.3	1576.4	1779.8	2220.0	3035.4	4335.3	5217.3	5196.5	4787.8	4115.7	3288.1
70°	950.6	954.7	1114.3	1472.7	2178.8	3504.7	4702.9	4703.9	4352.1	3660.2	2798.5
72.5°	500.7	511.4	575.5	836.3	1323.3	2458.9	3815.3	3905.7	3736.5	3123.9	2210.9
75°	278.6	280.1	325.4	412.3	675.1	1376.1	2867.7	2893.6	2958.2	2514.4	1634.9
77.5°	212.5	215.5	229.8	266.4	367.5	638.0	1735.5	1865.7	2084.8	1772.7	932.8
80°	172.3	175.4	187.6	209.4	244.5	302.5	806.3	876.4	1115.9	786.9	364.0
82.5°	134.2	132.2	147.9	162.2	177.9	178.9	330.9	366.0	454.5	338.6	157.6
85°	99.6	99.6	112.3	109.3	114.9	104.7	145.9	161.2	182.0	143.9	73.2
87.5°	39.7	43.7	73.7	66.1	51.3	41.2	53.9	56.9	63.0	56.4	30.5
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°	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6	1223.6
2.5°	1225.7	1227.2	1223.6	1221.1	1220.1	1218.5	1217.0	1217.5	1219.6	1221.6	1221.1
5°	1231.8	1232.3	1226.2	1223.1	1221.1	1219.1	1219.1	1220.6	1224.6	1227.7	1227.7
7.5°	1247.0	1247.0	1238.4	1232.8	1229.7	1226.2	1225.2	1225.7	1228.7	1232.8	1233.3
10°	1270.9	1268.9	1257.7	1249.0	1243.5	1234.8	1227.2	1223.1	1224.6	1227.2	1227.2
12.5°	1299.9	1294.3	1280.1	1268.4	1254.6	1238.4	1222.6	1214.5	1214.0	1216.5	1215.5
15°	1330.9	1324.8	1305.0	1283.6	1259.7	1235.8	1217.0	1205.3	1196.2	1193.6	1199.2
17.5°	1367.0	1354.3	1326.8	1297.3	1261.8	1230.7	1201.3	1177.4	1161.1	1156.5	1158.0
20°	1410.7	1393.9	1356.8	1310.6	1260.2	1212.4	1166.7	1134.7	1108.2	1100.1	1101.1
22.5°	1471.2	1442.2	1387.8	1317.2	1247.5	1177.9	1114.3	1072.6	1040.6	1027.9	1035.5
25°	1539.8	1508.3	1417.3	1315.6	1214.5	1122.5	1052.3	997.9	968.9	950.1	954.2
27.5°	1634.4	1578.5	1448.8	1301.9	1167.2	1054.9	973.5	922.2	895.7	886.1	890.7
30°	1755.4	1669.5	1482.9	1264.8	1092.5	969.4	894.2	860.7	844.9	832.7	836.8
32.5°	1842.8	1733.5	1490.5	1202.3	1011.6	891.7	840.3	815.4	798.1	786.4	789.0
35°	1905.3	1787.9	1487.0	1125.5	927.3	827.6	797.6	777.3	749.3	723.9	719.3
37.5°	1989.2	1856.0	1461.0	1041.6	843.9	784.4	763.1	725.4	685.3	651.2	649.7
40°	2117.8	1935.8	1405.6	943.0	772.7	752.4	726.5	677.6	634.4	607.0	605.0
42.5°	2250.5	2009.6	1330.4	839.3	714.2	718.8	687.3	639.0	612.6	594.8	592.8
45°	2412.7	2089.4	1249.0	749.3	671.0	687.3	653.2	625.3	609.5	597.8	594.8
47.5°	2588.1	2171.2	1157.5	668.5	634.4	658.3	639.0	626.3	617.7	609.5	606.0
50°	2777.2	2262.7	1071.6	603.4	601.4	628.3	637.5	632.9	627.8	625.3	622.2
52.5°	2984.6	2356.3	999.4	557.7	572.4	607.0	638.0	641.6	641.6	640.0	638.0
55°	3124.9	2421.3	926.2	520.6	542.9	589.7	637.0	650.7	655.8	653.8	651.7
57.5°	3228.6	2456.9	834.2	488.5	518.0	572.9	631.4	651.7	656.8	659.3	658.3
60°	3250.0	2423.9	713.7	455.0	491.1	548.5	611.1	636.5	643.1	658.8	660.4
62.5°	3153.9	2322.2	593.8	421.9	458.0	511.4	583.6	619.2	632.4	656.8	659.3
64°	3035.9	2208.3	527.2	401.1	436.7	490.6	569.9	614.6	631.9	664.4	666.5
65°	2949.5	2125.5	485.5	387.9	423.0	476.8	562.2	616.1	636.5	676.1	679.2
67.5°	2631.3	1840.3	401.6	356.9	390.4	453.5	563.8	628.8	635.5	680.7	680.2
70°	2177.3	1465.1	336.5	328.4	358.9	434.7	557.7	608.5	609.0	639.0	631.9
72.5°	1630.3	1082.8	291.8	298.9	323.8	389.9	526.7	581.1	572.4	576.5	569.4
75°	1119.9	716.3	251.1	267.4	287.2	344.7	482.9	527.7	514.0	508.9	503.8
77.5°	597.8	396.0	208.9	236.4	249.6	297.9	421.4	464.6	450.4	430.6	424.0
80°	242.0	186.6	168.3	195.7	203.3	239.9	350.8	377.7	367.0	332.5	321.3
82.5°	121.5	111.8	132.2	154.0	154.5	171.3	260.8	286.2	262.3	220.1	210.5
85°	63.5	65.6	91.0	108.3	95.6	92.5	156.6	173.4	159.1	138.3	124.5
87.5°	22.9	26.4	47.8	47.3	33.6	17.8	34.6	16.8	9.2	5.6	7.1
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)