

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: P522675

Luminaire Tested: **GALN-SA2C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11243 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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



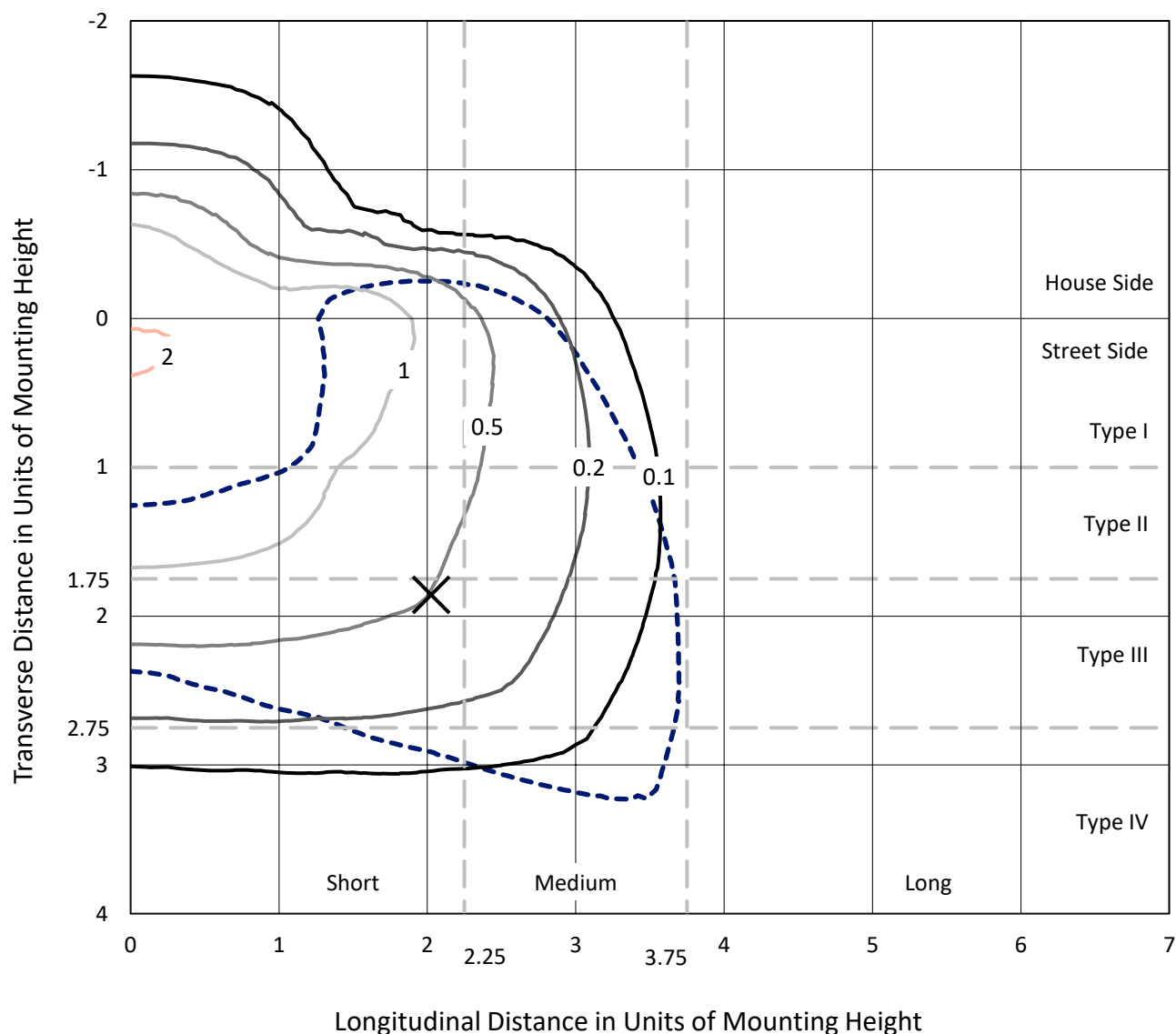
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



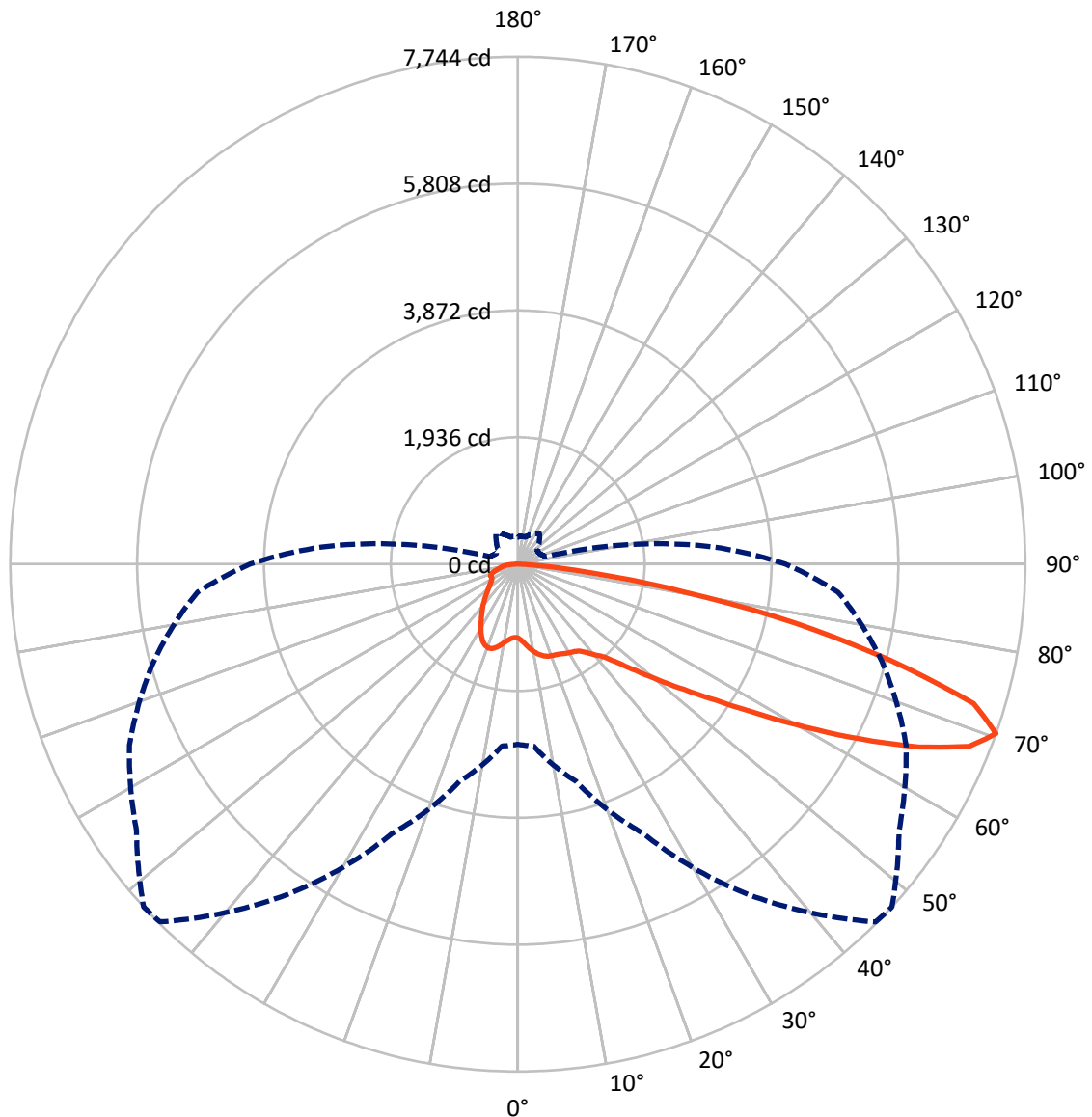
Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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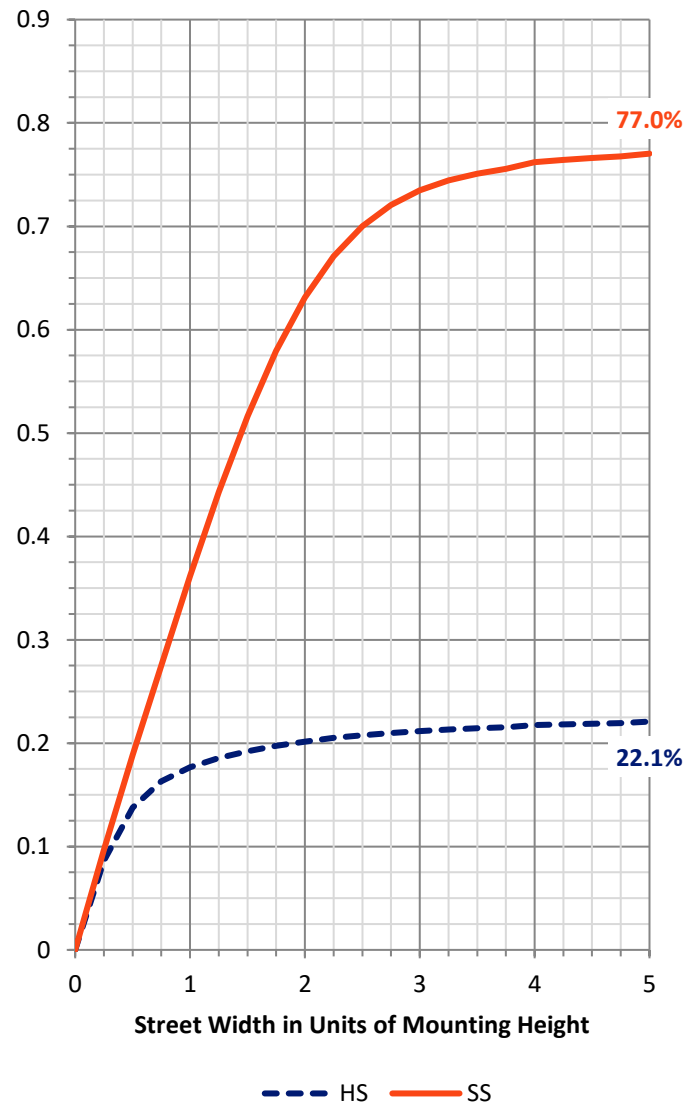
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2545.6	0.0	2545.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8697.4	0.0	8697.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	11243.0	0.0	11243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.0
10°-20°	388.9	3.5
20°-30°	646.8	5.8
30°-40°	916.7	8.2
40°-50°	1353.3	12.0
50°-60°	2344.0	20.8
60°-70°	3311.0	29.4
70°-80°	1903.3	16.9
80°-90°	262.6	2.3
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°	11243.0	100.0
0°-180°	11243.0	100.0

Coefficient of Utilization



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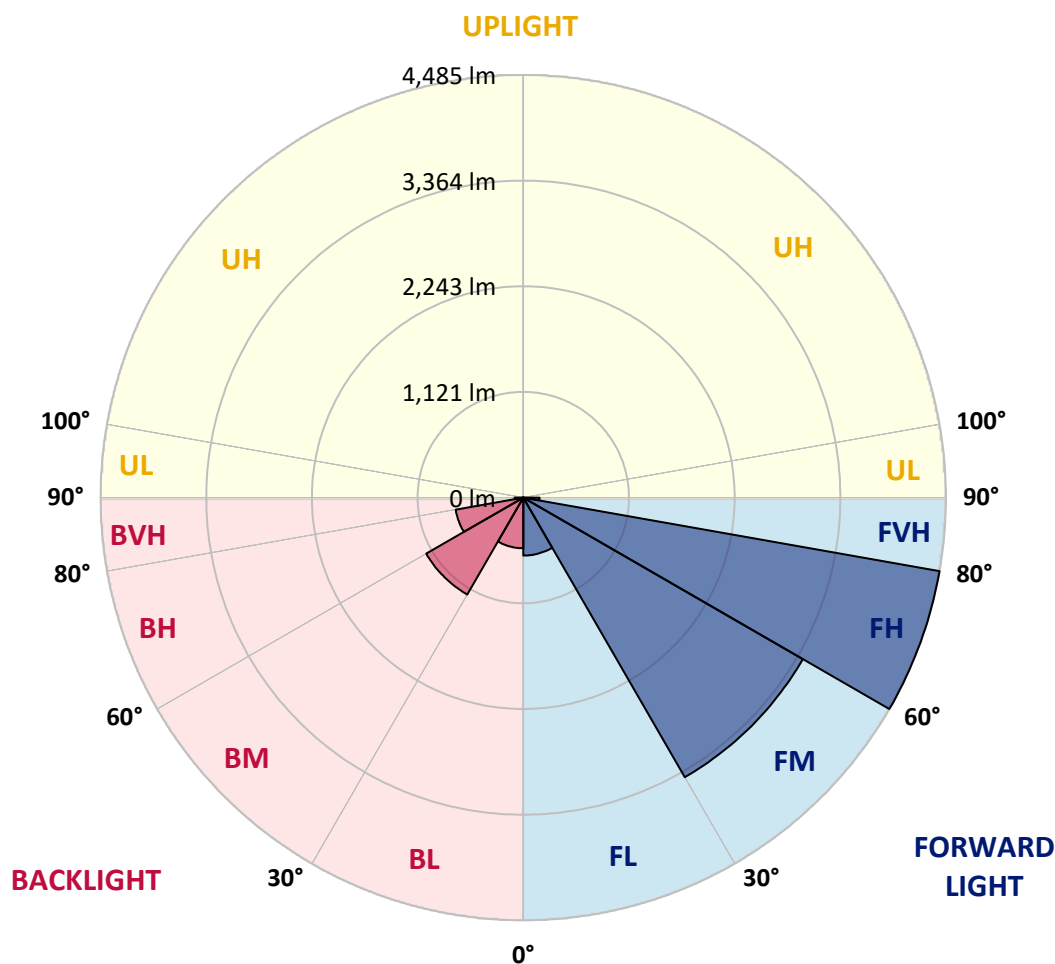
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.8	5.5			
FM	(30°-60°)	3425.5	30.5			
FH	(60°-80°)	4485.5	39.9			G2/5000
FVH	(80°-90°)	171.5	1.5			G2/225
BL	(0°-30°)	537.3	4.8	B2/1000		
BM	(30°-60°)	1188.5	10.6	B2/2500		
BH	(60°-80°)	728.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	91.1	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1201.5	1197.2	1196.6	1187.6	1182.8	1173.8	1170.2	1161.8	1151.5	1141.3	1131.7
5°	1295.9	1295.9	1291.7	1279.1	1259.2	1238.8	1229.7	1213.5	1184.6	1161.2	1141.3
7.5°	1392.8	1394.0	1385.6	1366.9	1338.6	1305.5	1297.1	1273.1	1232.1	1197.8	1168.4
10°	1476.4	1476.4	1465.0	1439.7	1404.2	1368.1	1359.7	1332.6	1286.9	1244.2	1205.7
12.5°	1540.2	1540.2	1525.1	1492.0	1453.5	1421.1	1411.4	1385.6	1342.8	1295.3	1246.6
15°	1581.7	1578.7	1561.8	1524.5	1487.2	1459.0	1452.3	1430.7	1391.6	1343.4	1288.7
17.5°	1583.5	1582.3	1566.0	1534.8	1502.3	1483.0	1478.8	1464.4	1433.7	1388.0	1330.2
20°	1548.6	1551.0	1540.2	1517.9	1502.3	1493.9	1492.0	1487.2	1465.6	1422.9	1365.1
22.5°	1511.3	1515.5	1505.3	1493.3	1492.0	1500.5	1501.7	1502.9	1489.0	1447.5	1394.6
25°	1502.3	1505.3	1495.1	1484.2	1490.8	1513.1	1517.9	1522.7	1511.9	1477.0	1429.5
27.5°	1548.0	1545.6	1525.7	1502.3	1506.5	1536.6	1543.2	1548.6	1543.2	1513.1	1472.8
30°	1677.4	1669.5	1629.8	1561.2	1539.6	1560.6	1567.3	1582.3	1582.3	1560.0	1519.7
32.5°	1893.9	1878.9	1806.1	1671.3	1596.1	1583.5	1590.1	1614.8	1627.4	1610.0	1566.0
35°	2156.9	2141.2	2037.1	1856.0	1699.6	1629.2	1627.4	1655.1	1688.8	1649.7	1592.5
37.5°	2421.0	2404.7	2279.6	2076.2	1850.6	1725.5	1714.7	1724.3	1738.7	1667.1	1629.2
40°	2685.1	2665.8	2556.3	2322.3	2035.3	1853.0	1824.8	1781.4	1775.4	1724.3	1700.2
42.5°	2946.8	2929.3	2874.0	2598.4	2256.7	1977.6	1934.2	1859.6	1882.5	1851.8	1830.8
45°	3210.9	3212.1	3153.2	2908.3	2523.8	2207.4	2149.0	2032.3	2086.5	2075.0	2087.1
47.5°	3444.9	3441.9	3420.9	3209.1	2855.3	2503.4	2428.2	2292.8	2385.5	2427.6	2519.6
50°	3671.8	3670.0	3671.2	3550.2	3240.4	2855.3	2772.3	2630.3	2839.1	2985.3	3150.1
52.5°	3996.6	4006.9	3934.1	3902.2	3708.5	3271.1	3179.6	3032.8	3375.2	3605.6	3927.5
55°	4322.7	4314.3	4257.1	4290.2	4198.2	3763.2	3667.5	3550.8	3972.0	4224.1	4707.8
57.5°	4514.6	4517.7	4576.0	4737.9	4802.8	4376.9	4290.2	4200.0	4642.8	4821.5	5402.1
60°	4687.3	4701.2	4869.0	5174.6	5350.9	5130.7	5053.7	4965.9	5258.3	5329.3	6004.9
62.5°	4741.5	4784.2	5077.2	5534.4	5885.2	5981.4	5885.8	5692.0	5844.3	5816.6	6413.4
65°	4471.3	4529.7	5054.9	5669.2	6362.3	6788.8	6728.1	6368.3	6343.6	6177.0	6480.2
67.5°	3760.2	3818.6	4493.0	5386.4	6559.6	7487.9	7427.1	6861.6	6646.8	6210.6	5974.8
70°	2751.3	2788.0	3432.9	4535.1	6163.1	7722.6	7743.6	7102.3	6538.5	5752.8	4905.7
72.5°	1585.3	1666.5	2118.3	3190.5	5035.1	7129.3	7275.5	6601.7	5853.9	4799.2	3429.9
75°	681.6	683.5	979.5	1759.8	3410.1	5730.5	5871.9	5472.4	4597.1	3318.6	1831.4
77.5°	324.3	330.3	430.8	785.7	1877.1	3959.3	4340.8	3866.1	2940.2	1594.3	691.9
80°	210.6	214.8	263.5	389.9	920.5	2295.8	2561.7	2230.3	1297.1	569.7	298.4
82.5°	127.5	128.7	176.3	238.2	506.6	1039.6	1225.5	968.0	553.5	341.1	175.7
85°	77.6	78.2	107.1	147.4	307.4	359.2	368.8	365.8	324.9	223.2	93.9
87.5°	37.3	38.5	55.4	69.8	120.9	111.3	105.3	122.1	153.4	120.3	40.3
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°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1127.5	1125.7	1121.4	1119.6	1118.4	1119.0	1118.4	1118.4	1119.0	1119.0	1119.0
5°	1132.9	1129.9	1123.2	1123.2	1126.9	1135.3	1143.1	1149.1	1155.7	1155.1	1155.1
7.5°	1156.3	1150.9	1143.1	1145.5	1154.5	1167.8	1181.6	1194.8	1208.1	1209.3	1208.7
10°	1190.6	1185.2	1176.8	1179.8	1194.2	1214.1	1231.5	1250.8	1265.2	1269.4	1268.2
12.5°	1229.7	1218.9	1211.7	1220.1	1243.0	1269.4	1286.3	1300.7	1311.0	1317.0	1314.6
15°	1269.4	1259.2	1250.8	1268.2	1295.9	1320.6	1329.0	1331.4	1333.2	1339.2	1338.0
17.5°	1307.9	1294.1	1291.1	1314.0	1340.4	1351.3	1346.5	1336.2	1328.4	1333.2	1332.6
20°	1342.2	1331.4	1330.2	1353.1	1363.3	1353.1	1332.6	1314.6	1300.7	1301.9	1301.3
22.5°	1374.7	1366.3	1367.5	1377.1	1360.9	1326.0	1292.3	1267.6	1252.6	1255.6	1257.4
25°	1410.8	1402.4	1405.4	1389.8	1336.2	1275.5	1226.7	1205.7	1199.7	1205.7	1209.9
27.5°	1457.8	1452.3	1450.5	1390.4	1292.3	1200.9	1145.5	1137.7	1143.1	1156.3	1163.0
30°	1508.3	1508.3	1498.7	1380.1	1232.1	1111.2	1063.1	1064.3	1082.9	1101.6	1108.2
32.5°	1557.0	1567.3	1537.2	1352.5	1154.5	1024.0	987.3	988.5	1004.7	1027.6	1033.6
35°	1597.3	1626.8	1570.3	1301.9	1063.1	950.6	922.9	906.7	907.3	924.7	929.5
37.5°	1652.7	1707.4	1589.5	1226.7	965.6	888.0	856.7	828.4	809.8	802.6	802.6
40°	1748.9	1829.6	1594.3	1115.4	873.6	828.4	783.9	750.2	714.1	681.6	675.6
42.5°	1912.0	2013.7	1584.7	987.3	790.5	762.9	719.6	678.0	628.1	582.4	578.8
45°	2200.8	2253.1	1558.8	854.3	716.5	699.7	657.6	612.5	559.5	518.6	515.6
47.5°	2663.4	2589.4	1524.5	736.4	649.2	644.3	611.9	559.5	506.6	478.3	475.3
50°	3339.1	3118.9	1519.7	651.0	595.0	597.4	570.9	522.8	476.5	453.0	449.4
52.5°	4152.5	3758.4	1551.6	590.8	547.5	556.5	543.3	498.8	457.8	438.0	434.4
55°	4941.8	4333.6	1570.9	543.9	503.0	519.8	521.6	484.3	447.0	427.2	424.8
57.5°	5582.5	4766.7	1485.4	501.2	464.5	490.3	503.6	475.9	441.6	426.6	424.2
60°	6028.4	4971.3	1242.4	463.3	436.2	466.9	496.9	476.5	454.8	456.6	457.8
62.5°	6170.3	4880.4	931.9	435.0	416.9	459.0	507.8	501.2	478.9	492.7	495.1
65°	5935.1	4505.0	675.6	412.7	400.1	464.5	540.3	519.2	470.5	480.7	480.7
67.5°	5147.6	3881.1	525.8	392.3	380.8	474.7	572.8	517.4	450.6	462.7	451.8
70°	4083.3	3002.1	438.0	369.4	360.4	459.6	575.8	498.8	427.2	429.6	409.1
72.5°	2709.8	1974.0	376.6	347.7	329.1	413.3	551.1	474.7	404.3	390.5	370.0
75°	1327.8	984.3	328.5	320.7	288.2	359.8	517.4	451.8	379.6	358.0	346.5
77.5°	514.4	418.7	280.4	286.4	250.9	317.1	472.9	419.3	347.1	317.7	308.6
80°	249.7	237.6	229.8	238.8	206.4	270.1	432.0	391.1	317.1	284.6	271.3
82.5°	155.2	146.8	176.3	185.9	158.8	246.7	409.7	367.0	279.2	235.8	225.0
85°	78.8	84.2	117.9	126.9	113.7	196.1	337.5	275.5	201.5	167.3	168.5
87.5°	30.1	40.3	62.0	66.8	60.8	103.5	185.9	160.6	129.4	87.8	81.2
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)