

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: P527956

Luminaire Tested: **GALN-SA3A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10926 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

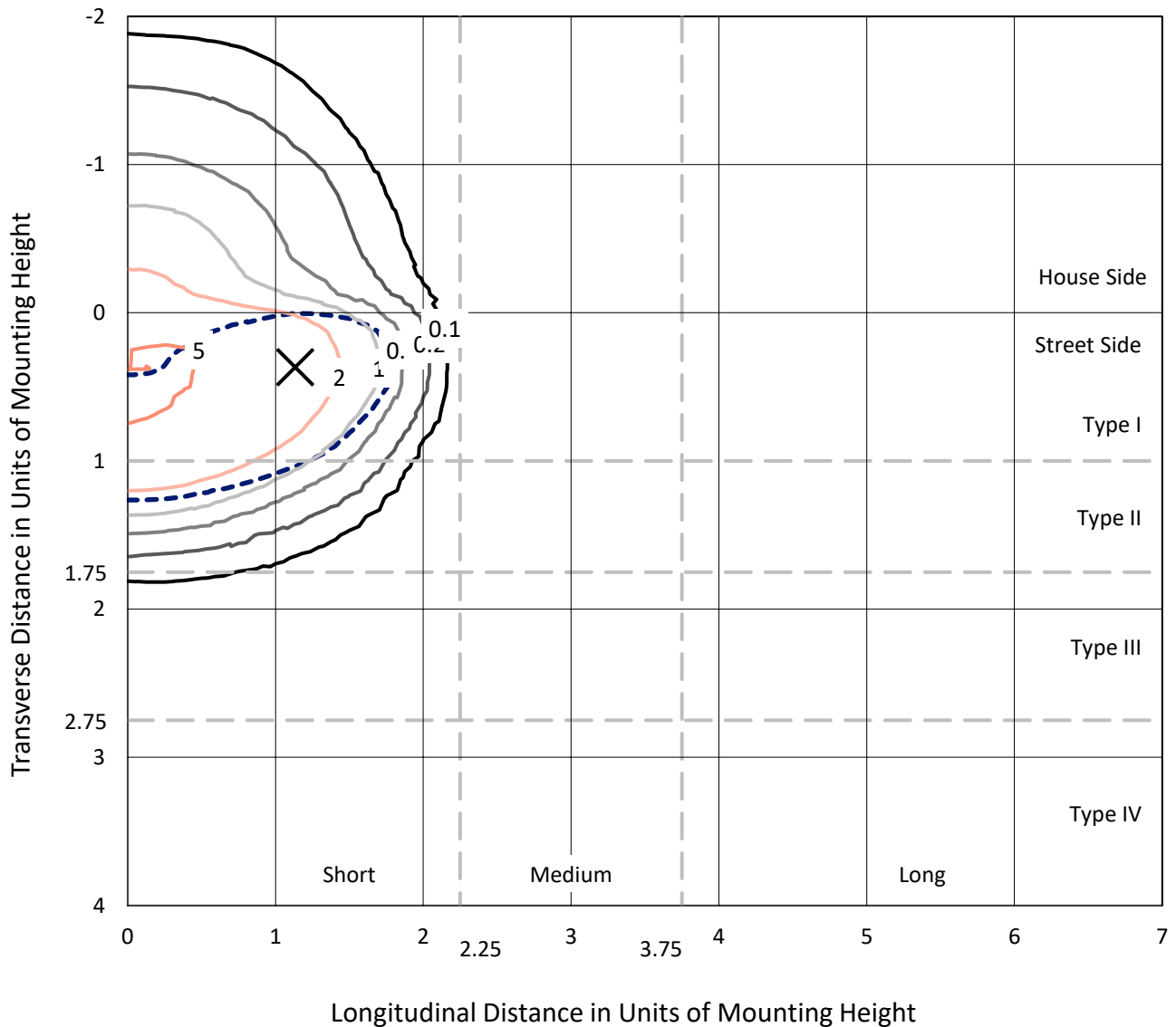
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

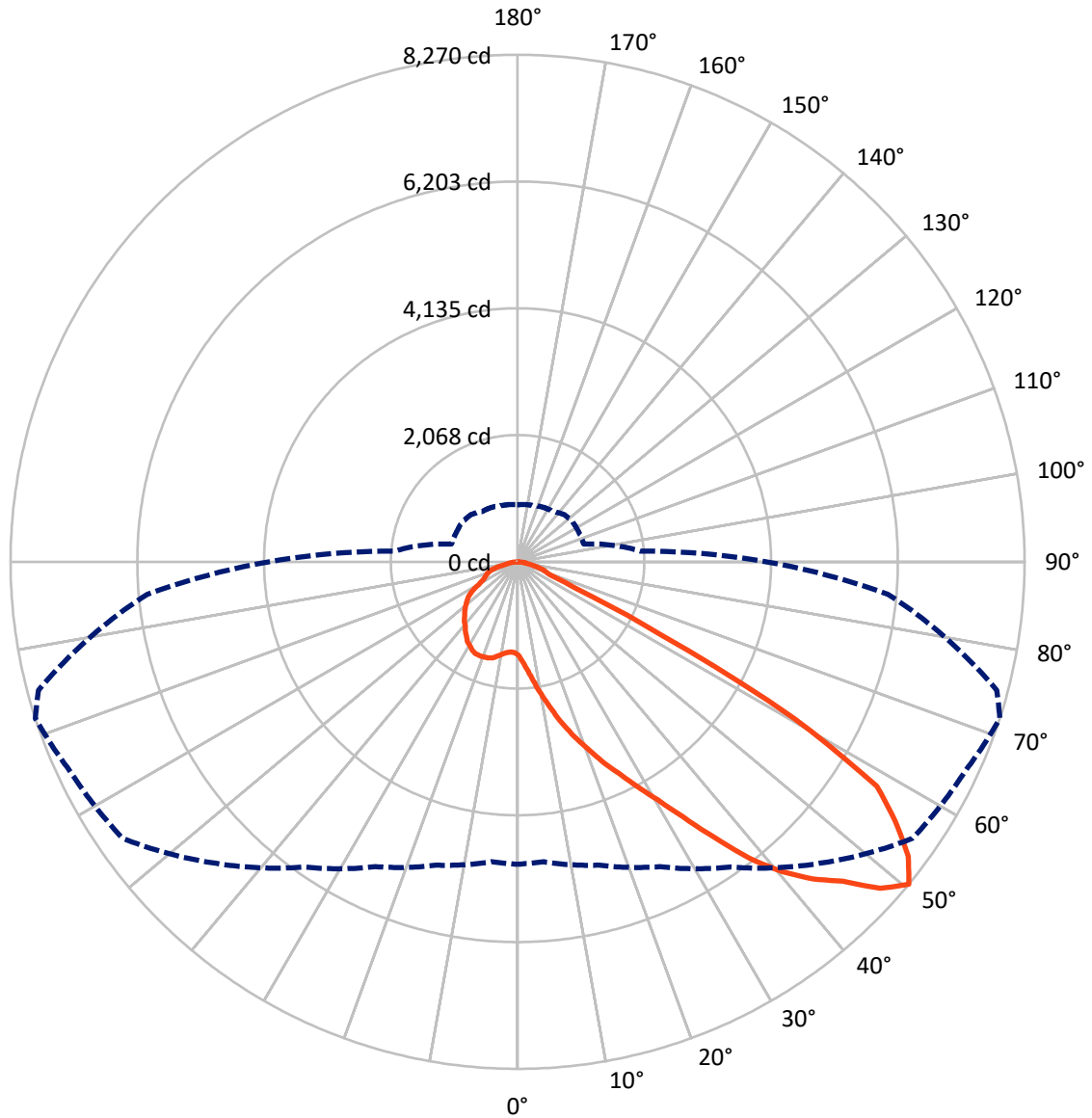
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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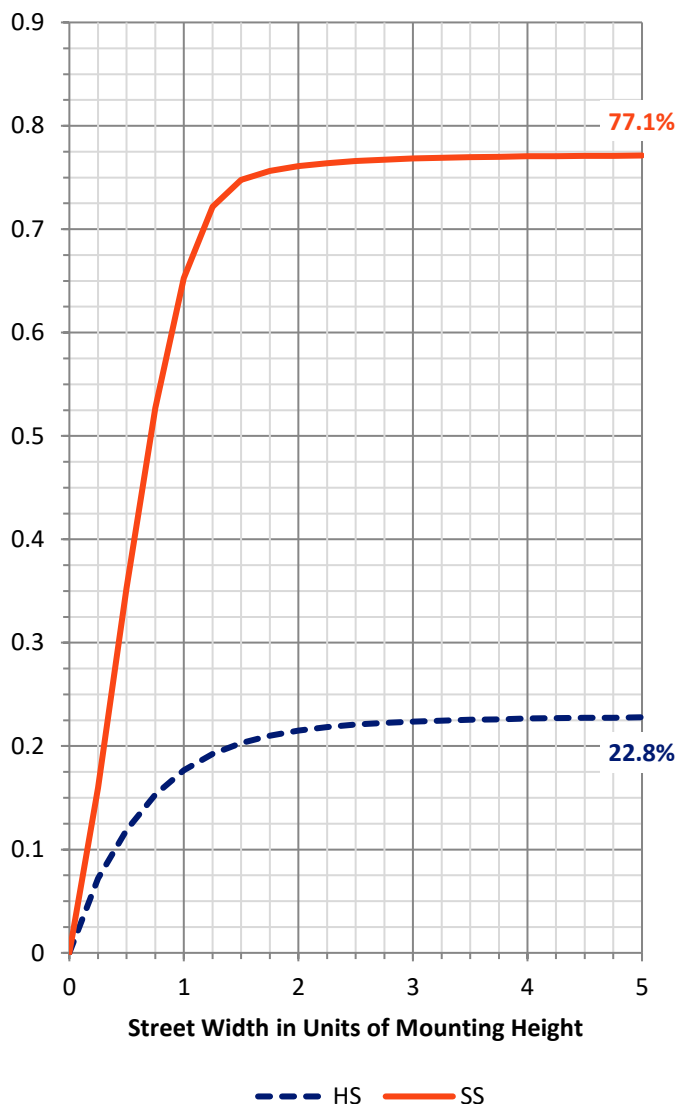
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2503.2	0.0	2503.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8422.8	0.0	8422.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	10926.0	0.0	10926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.6
10°-20°	668.8	6.1
20°-30°	1296.8	11.9
30°-40°	2148.3	19.7
40°-50°	3006.0	27.5
50°-60°	2535.9	23.2
60°-70°	772.9	7.1
70°-80°	271.2	2.5
80°-90°	47.1	0.4
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°	10926.0	100.0
0°-180°	10926.0	100.0

Coefficient of Utilization

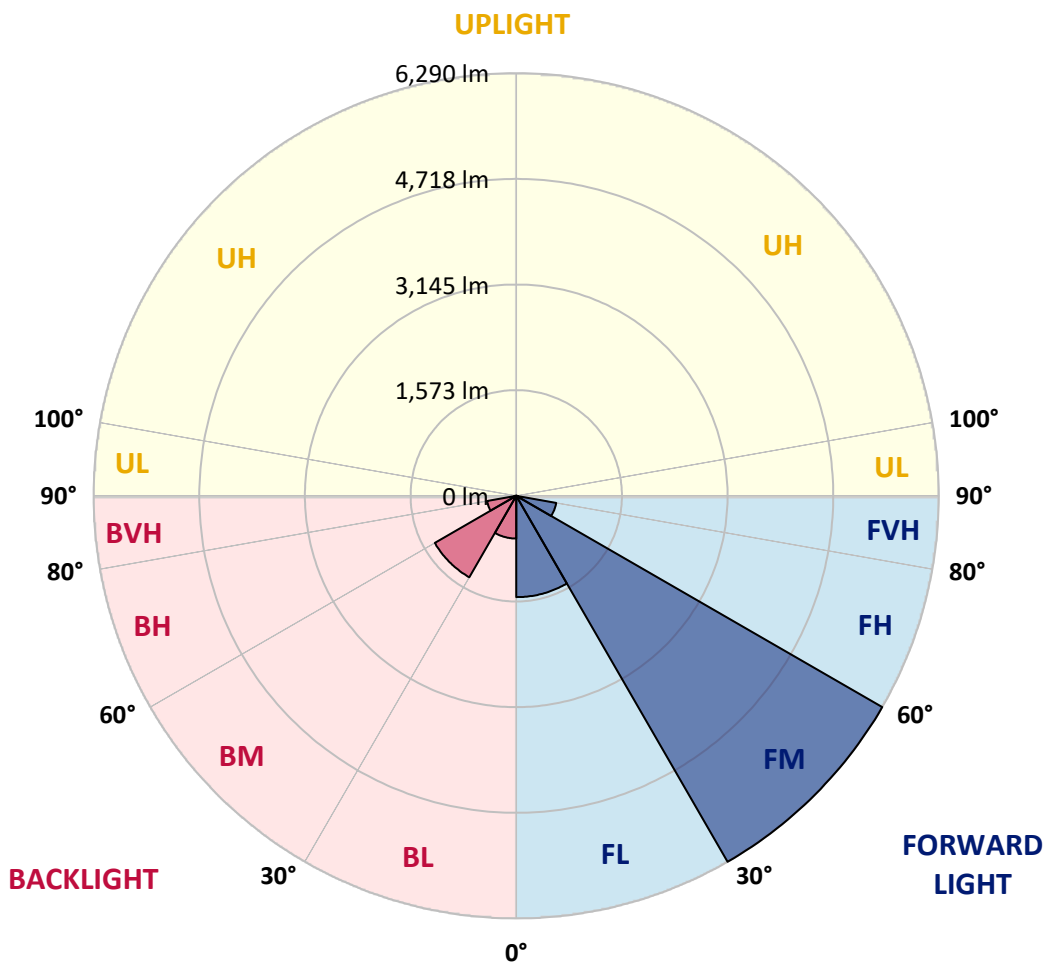


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.2	13.8			
FM (30°-60°)	6290.4	57.6			
FH (60°-80°)	603.1	5.5			G0/660
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	636.3	5.8	B2/1000		
BM (30°-60°)	1399.8	12.8	B2/2500		
BH (60°-80°)	441.0	4.0	B1/500		G1/500
BVH (80°-90°)	26.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0
2.5°	1956.3	1944.2	1907.7	1895.5	1852.2	1773.8	1746.8	1667.0	1633.2	1602.1	1565.6
5°	2474.1	2417.4	2413.3	2344.4	2244.3	2186.2	2013.1	1896.8	1790.0	1736.0	1635.9
7.5°	2804.0	2805.4	2805.4	2748.6	2668.8	2521.5	2366.0	2156.4	1995.5	1915.8	1745.4
10°	3117.7	3090.7	3075.8	3070.4	3016.3	2873.0	2706.7	2447.1	2226.7	2133.4	1827.9
12.5°	3339.4	3316.4	3350.2	3332.7	3293.5	3200.2	3043.3	2747.3	2471.4	2345.7	1960.4
15°	3444.9	3461.1	3488.1	3536.8	3519.2	3484.1	3311.0	3055.5	2735.1	2593.1	2078.0
17.5°	3607.1	3562.5	3594.9	3655.8	3704.5	3688.2	3589.5	3278.6	2996.0	2821.6	2236.2
20°	3720.7	3695.0	3711.2	3781.5	3818.0	3910.0	3858.6	3570.6	3246.1	3062.3	2422.8
22.5°	4045.2	4007.3	3954.6	3965.4	3978.9	4043.8	4056.0	3891.0	3536.8	3342.1	2599.9
25°	4445.4	4410.2	4348.0	4284.5	4245.3	4233.1	4275.0	4142.5	3815.3	3613.9	2790.5
27.5°	4886.1	4826.6	4787.4	4656.3	4550.8	4534.6	4514.3	4442.6	4145.2	3927.5	3005.5
30°	5314.7	5267.4	5214.6	5005.1	4895.6	4878.0	4777.9	4798.2	4503.5	4261.5	3248.8
32.5°	5639.2	5643.2	5522.9	5364.7	5262.0	5168.7	5132.2	5190.3	4963.2	4768.5	3520.6
35°	5901.5	5913.6	5798.7	5655.4	5544.5	5609.4	5593.2	5620.2	5512.1	5274.1	3837.0
37.5°	6157.0	6096.1	5973.1	5904.2	5846.0	5952.8	6090.7	6113.7	6134.0	5854.1	4204.7
40°	6198.9	6204.3	6132.6	6181.3	6108.3	6269.2	6589.6	6559.9	6642.3	6397.6	4603.5
42.5°	6139.4	6151.6	6180.0	6248.9	6424.7	6618.0	7093.9	6972.2	7072.3	6854.6	4991.6
45°	6042.1	5992.0	6027.2	6289.5	6593.7	7023.6	7554.9	7460.3	7427.9	7245.3	5453.9
47.5°	5577.0	5628.3	5737.9	6061.0	6518.0	7093.9	7882.1	7860.5	7957.8	7829.4	5874.4
50°	4932.1	4911.8	5122.7	5486.4	6075.9	6956.0	7864.5	8060.6	8270.1	8091.7	6062.3
52.5°	3693.6	3801.8	3983.0	4434.5	5275.5	6204.3	7480.6	7807.8	7978.1	7940.3	5910.9
55°	2334.9	2367.3	2476.9	3013.6	3770.7	4979.4	6412.5	7171.0	7475.2	7617.1	5771.7
57.5°	1134.3	1073.5	1207.3	1638.6	2178.1	3348.9	4945.6	6246.2	6907.3	7164.2	5468.8
60°	592.2	615.2	667.9	822.0	1126.2	1738.7	3082.5	4162.8	5172.7	5567.5	4145.2
62.5°	490.8	498.9	534.0	611.1	749.0	1000.5	1573.7	2029.3	2637.7	2993.3	2357.9
65°	416.4	420.5	458.3	509.7	597.6	704.4	809.8	847.7	1026.2	1053.2	838.2
67.5°	347.5	351.5	392.1	440.7	497.5	525.9	553.0	550.3	570.5	562.4	561.1
70°	267.7	271.8	313.7	365.0	393.4	377.2	461.0	480.0	488.1	494.8	505.6
72.5°	193.3	201.4	233.9	270.4	255.5	293.4	379.9	408.3	419.1	423.2	436.7
75°	140.6	143.3	151.4	140.6	162.2	204.2	267.7	302.8	316.4	320.4	340.7
77.5°	62.2	63.5	64.9	81.1	104.1	127.1	159.5	187.9	206.9	212.3	217.7
80°	32.4	33.8	41.9	55.4	74.4	93.3	116.3	132.5	144.7	146.0	151.4
82.5°	20.3	21.6	29.7	39.2	52.7	69.0	85.2	98.7	108.2	109.5	110.9
85°	9.5	12.2	17.6	24.3	35.2	44.6	46.0	39.2	41.9	43.3	40.6
87.5°	2.7	4.1	5.4	4.1	5.4	5.4	6.8	8.1	8.1	8.1	9.5
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°	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0	1521.0
2.5°	1545.3	1533.2	1485.8	1468.3	1422.3	1430.4	1406.1	1404.7	1399.3	1398.0	1396.6
5°	1583.2	1545.3	1488.5	1445.3	1419.6	1416.9	1399.3	1399.3	1404.7	1408.8	1399.3
7.5°	1645.4	1602.1	1506.1	1465.6	1442.6	1438.5	1426.4	1416.9	1429.1	1425.0	1414.2
10°	1717.0	1641.3	1539.9	1504.8	1466.9	1457.4	1457.4	1461.5	1441.2	1448.0	1437.2
12.5°	1796.8	1695.4	1583.2	1542.6	1498.0	1492.6	1489.9	1460.2	1471.0	1465.6	1438.5
15°	1898.2	1757.6	1638.6	1569.7	1531.8	1507.5	1472.3	1466.9	1460.2	1446.6	1434.5
17.5°	2007.7	1825.2	1664.3	1577.8	1521.0	1503.4	1476.4	1448.0	1427.7	1430.4	1420.9
20°	2101.0	1887.4	1673.8	1585.9	1512.9	1479.1	1437.2	1419.6	1398.0	1396.6	1395.3
22.5°	2211.9	1971.2	1687.3	1564.3	1488.5	1453.4	1425.0	1393.9	1379.0	1360.1	1369.6
25°	2344.4	2003.7	1690.0	1552.1	1471.0	1408.8	1393.9	1360.1	1354.7	1327.7	1333.1
27.5°	2440.3	2021.2	1668.4	1514.2	1430.4	1383.1	1356.0	1331.7	1322.2	1302.0	1296.6
30°	2568.8	2048.3	1622.4	1466.9	1389.8	1337.1	1320.9	1315.5	1288.4	1266.8	1264.1
32.5°	2714.8	2065.8	1592.6	1418.2	1347.9	1307.4	1315.5	1289.8	1256.0	1237.1	1231.7
35°	2831.1	2072.6	1518.3	1362.8	1319.5	1293.9	1284.4	1279.0	1230.3	1212.7	1199.2
37.5°	3008.2	2057.7	1456.1	1323.6	1288.4	1279.0	1270.9	1234.4	1178.9	1153.3	1134.3
40°	3215.0	2053.7	1376.3	1268.2	1258.7	1269.5	1245.2	1188.4	1111.3	1082.9	1069.4
42.5°	3413.8	2082.1	1326.3	1238.4	1226.3	1230.3	1196.5	1111.3	1073.5	1057.3	1035.6
45°	3746.4	2141.6	1243.8	1192.5	1187.1	1184.3	1143.8	1054.6	1032.9	1012.6	1008.6
47.5°	4046.5	2102.3	1191.1	1145.1	1150.5	1135.7	1049.1	1020.8	996.4	976.1	969.4
50°	4064.1	2009.1	1116.7	1108.6	1110.0	1084.3	1001.8	982.9	951.8	938.3	928.8
52.5°	3972.2	1856.3	1047.8	1050.5	1054.6	1012.6	943.7	930.2	904.5	885.6	880.1
55°	3713.9	1618.3	980.2	991.0	1001.8	922.1	900.4	866.6	846.3	819.3	820.7
57.5°	3271.8	1303.3	885.6	903.1	926.1	838.2	822.0	780.1	750.4	728.7	726.0
60°	2192.9	927.5	743.6	750.4	801.7	766.6	765.2	723.3	682.8	663.8	653.0
62.5°	1293.9	708.4	642.2	635.4	634.1	654.4	688.2	673.3	620.6	584.1	594.9
65°	677.3	612.5	597.6	574.6	561.1	555.7	581.4	588.1	553.0	513.8	511.1
67.5°	569.2	569.2	557.0	548.9	530.0	507.0	490.8	469.1	463.7	452.9	439.4
70°	517.8	531.3	527.3	508.3	492.1	466.4	424.5	389.4	355.6	343.4	351.5
72.5°	451.6	465.1	465.1	455.6	434.0	394.8	354.2	313.7	285.3	263.6	260.9
75°	347.5	354.2	370.4	359.6	331.2	306.9	265.0	223.1	196.0	175.8	171.7
77.5°	221.7	232.5	232.5	231.2	210.9	187.9	160.9	131.1	110.9	96.0	91.9
80°	147.4	154.1	159.5	154.1	140.6	123.0	102.8	82.5	67.6	55.4	52.7
82.5°	108.2	116.3	120.3	114.9	101.4	87.9	73.0	58.1	43.3	33.8	31.1
85°	41.9	43.3	48.7	58.1	56.8	55.4	44.6	32.4	24.3	17.6	16.2
87.5°	10.8	9.5	10.8	10.8	9.5	8.1	8.1	8.1	8.1	4.1	5.4
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)