

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: P651817

Luminaire Tested: **GALN-SA3A-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651817  
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-SA3A-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11489.7 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

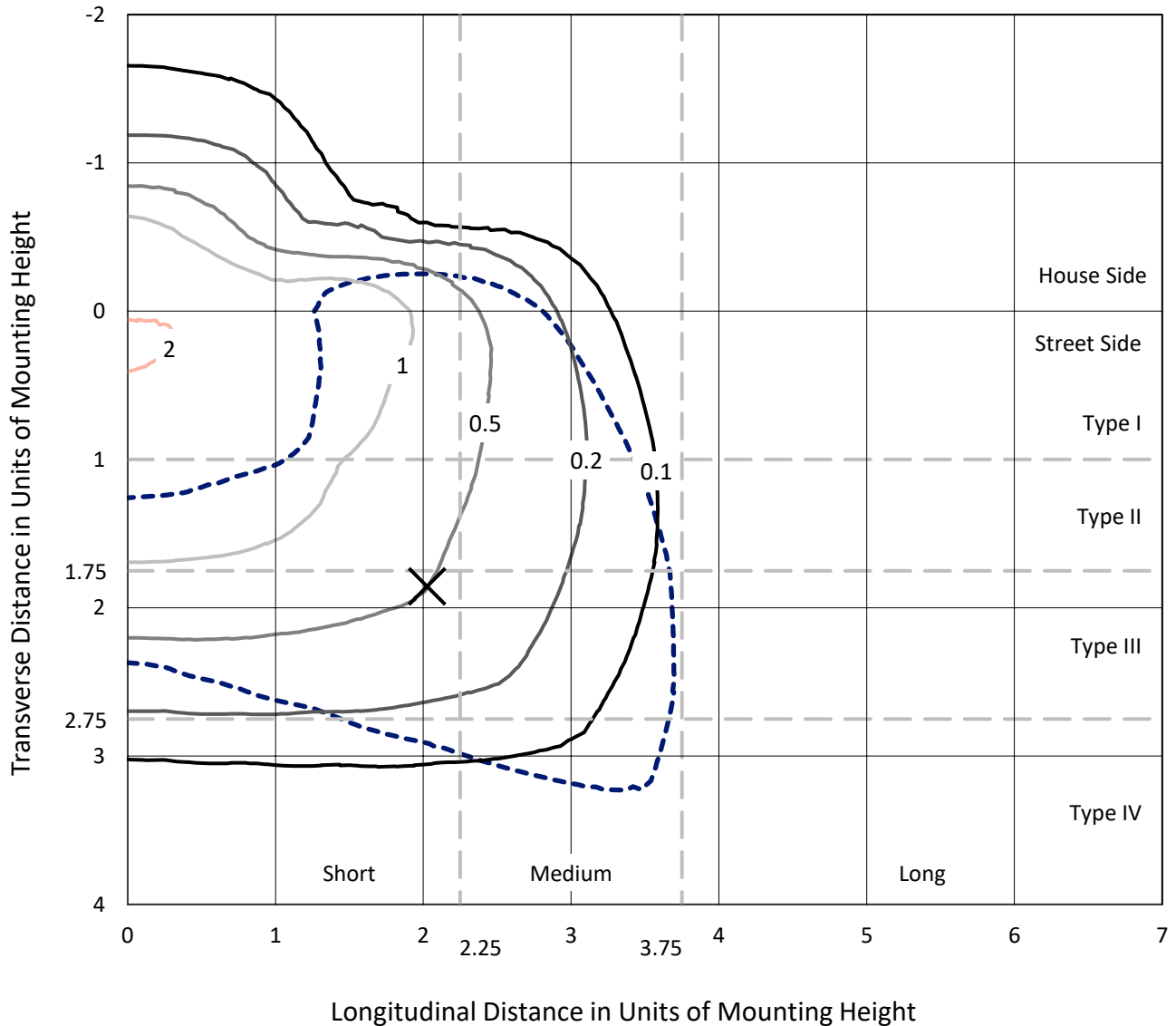
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

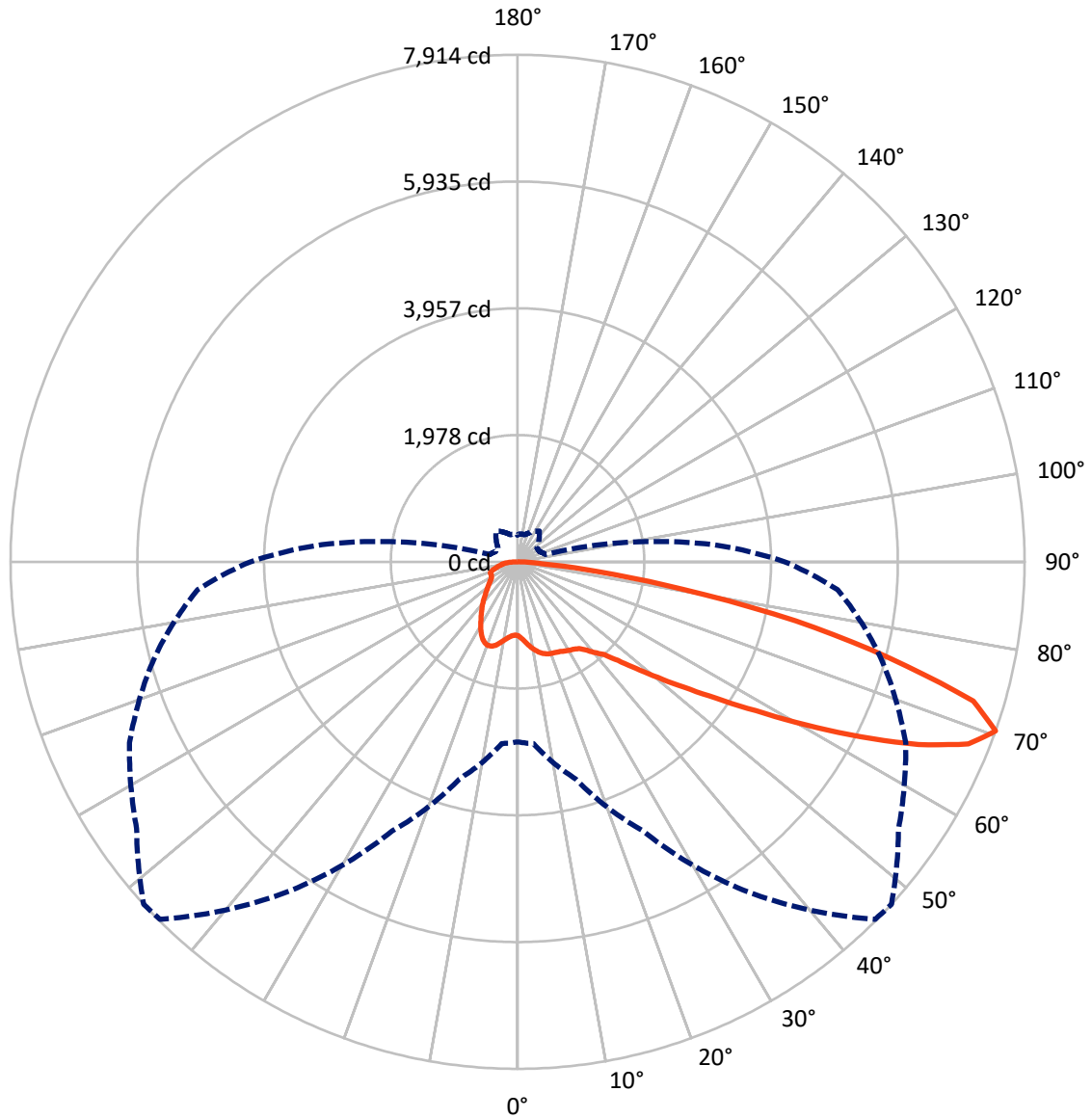
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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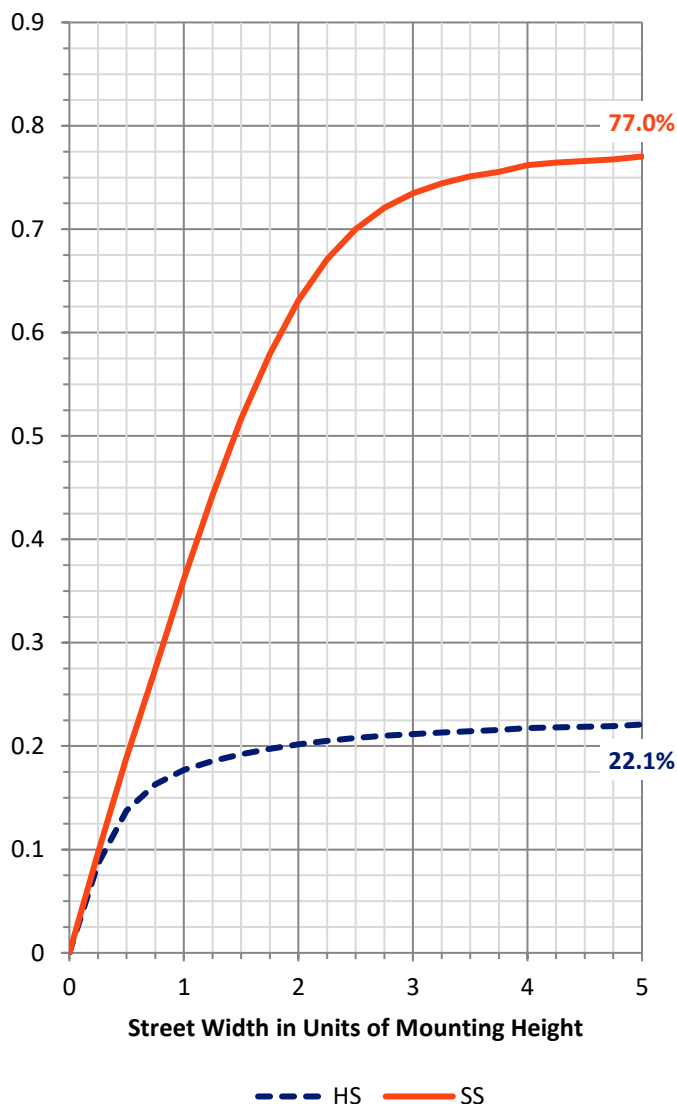
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2601.5	0.0	2601.5
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8888.3	0.0	8888.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	11489.7	0.0	11489.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	1.0
10°-20°	397.5	3.5
20°-30°	661.0	5.8
30°-40°	936.9	8.2
40°-50°	1383.0	12.0
50°-60°	2395.4	20.8
60°-70°	3383.6	29.4
70°-80°	1945.1	16.9
80°-90°	268.4	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°	11489.7	100.0
0°-180°	11489.7	100.0

**Coefficient of Utilization**

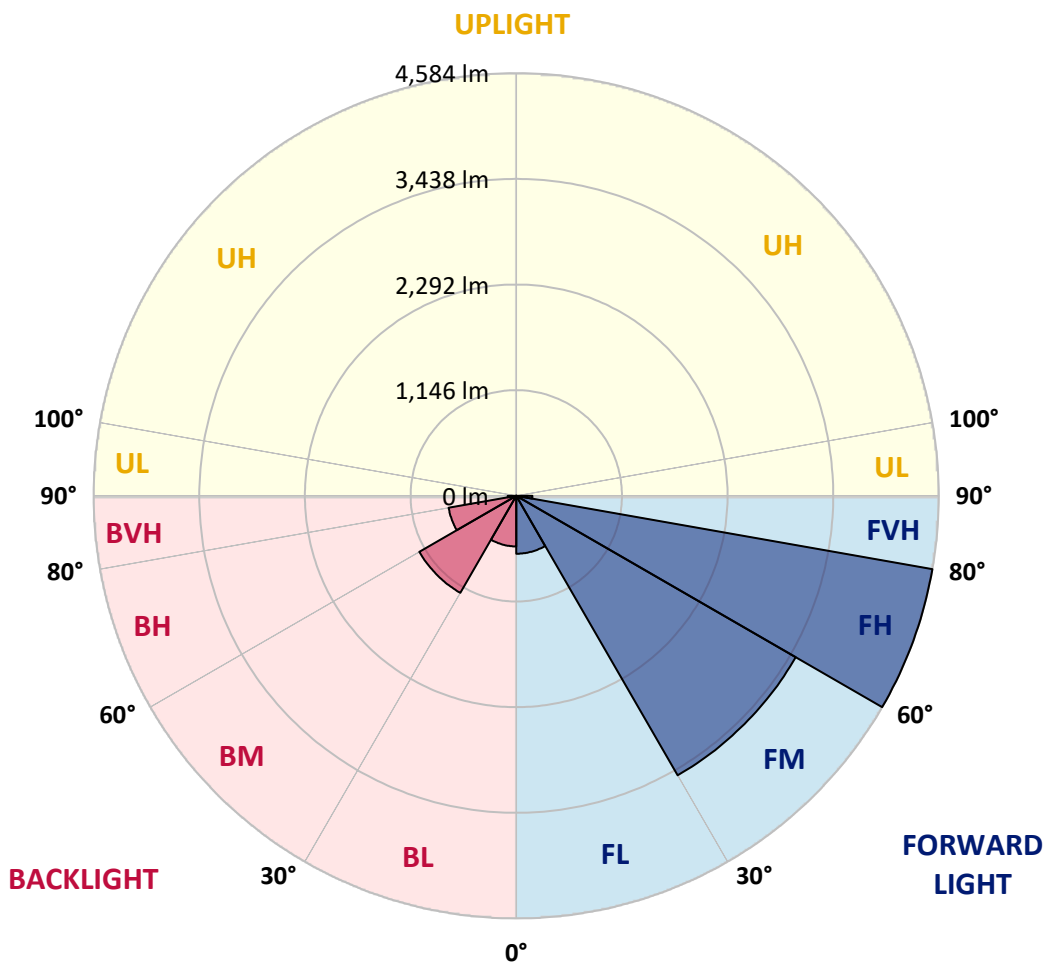


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.3	5.5			
FM (30°-60°)	3500.7	30.5			
FH (60°-80°)	4583.9	39.9			G2/5000
FVH (80°-90°)	175.3	1.5			G2/225
BL (0°-30°)	549.1	4.8	B2/1000		
BM (30°-60°)	1214.6	10.6	B2/2500		
BH (60°-80°)	744.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	93.1	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°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1227.9	1223.5	1222.9	1213.6	1208.8	1199.5	1195.8	1187.2	1176.8	1166.4	1156.5
5°	1324.3	1324.3	1320.0	1307.2	1286.8	1266.0	1256.7	1240.1	1210.6	1186.7	1166.4
7.5°	1423.3	1424.6	1416.0	1396.9	1368.0	1334.2	1325.6	1301.0	1259.1	1224.2	1194.1
10°	1508.8	1508.8	1497.1	1471.3	1435.0	1398.2	1389.5	1361.8	1315.2	1271.5	1232.1
12.5°	1574.0	1574.0	1558.6	1524.8	1485.5	1452.2	1442.4	1416.0	1372.3	1323.7	1273.9
15°	1616.4	1613.3	1596.1	1558.0	1519.9	1491.0	1484.2	1462.1	1422.1	1372.9	1317.0
17.5°	1618.3	1617.0	1600.4	1568.5	1535.2	1515.6	1511.3	1496.5	1465.2	1418.4	1359.4
20°	1582.6	1585.0	1574.0	1551.2	1535.2	1526.7	1524.8	1519.9	1497.7	1454.1	1395.1
22.5°	1544.5	1548.8	1538.4	1526.0	1524.8	1533.4	1534.7	1535.8	1521.7	1479.3	1425.2
25°	1535.2	1538.4	1527.8	1516.8	1523.6	1546.3	1551.2	1556.2	1545.1	1509.4	1460.8
27.5°	1582.0	1579.5	1559.2	1535.2	1539.5	1570.3	1577.0	1582.6	1577.0	1546.3	1505.1
30°	1714.1	1706.1	1665.6	1595.5	1573.3	1594.9	1601.7	1617.0	1617.0	1594.3	1553.1
32.5°	1935.5	1920.2	1845.7	1708.0	1631.1	1618.3	1625.0	1650.2	1663.2	1645.3	1600.4
35°	2204.2	2188.2	2081.8	1896.8	1736.9	1665.0	1663.2	1691.4	1725.8	1685.9	1627.5
37.5°	2474.1	2457.5	2329.7	2121.8	1891.2	1763.3	1752.3	1762.1	1776.9	1703.7	1665.0
40°	2744.0	2724.3	2612.4	2373.3	2080.0	1893.7	1864.8	1820.5	1814.4	1762.1	1737.5
42.5°	3011.5	2993.6	2937.1	2655.5	2306.3	2021.0	1976.7	1900.5	1923.8	1892.5	1871.0
45°	3281.4	3282.6	3222.4	2972.1	2579.3	2255.8	2196.2	2076.9	2132.3	2120.6	2132.9
47.5°	3520.5	3517.5	3496.0	3279.6	2918.0	2558.3	2481.5	2343.1	2437.8	2480.9	2575.0
50°	3752.4	3750.5	3751.7	3628.2	3311.5	2918.0	2833.2	2688.1	2901.4	3050.8	3219.3
52.5°	4084.3	4094.8	4020.4	3987.9	3789.9	3342.9	3249.4	3099.4	3449.2	3684.7	4013.7
55°	4417.6	4409.0	4350.6	4384.4	4290.4	3845.8	3748.0	3628.7	4059.2	4316.8	4811.1
57.5°	4613.7	4616.8	4676.5	4841.8	4908.2	4472.9	4384.4	4292.1	4744.7	4927.3	5520.6
60°	4790.2	4804.3	4975.9	5288.2	5468.4	5243.3	5164.6	5074.8	5373.7	5446.2	6136.7
62.5°	4845.5	4889.2	5188.6	5655.9	6014.3	6112.7	6014.9	5816.9	5972.5	5944.3	6554.2
65°	4569.5	4629.1	5165.8	5793.6	6501.9	6937.8	6875.7	6508.0	6482.8	6312.5	6622.4
67.5°	3842.7	3902.3	4591.6	5504.6	6703.5	7652.3	7590.1	7012.2	6792.7	6346.9	6105.9
70°	2811.6	2849.1	3508.2	4634.7	6298.4	7892.0	7913.6	7258.2	6682.0	5879.1	5013.4
72.5°	1620.1	1703.1	2164.8	3260.5	5145.6	7285.8	7435.2	6746.6	5982.4	4904.5	3505.2
75°	696.6	698.5	1001.0	1798.4	3484.9	5856.3	6000.8	5592.6	4698.0	3391.4	1871.6
77.5°	331.4	337.6	440.3	803.0	1918.3	4046.2	4436.0	3950.9	3004.7	1629.4	707.0
80°	215.2	219.5	269.3	398.4	940.7	2346.2	2617.9	2279.2	1325.6	582.2	304.9
82.5°	130.4	131.6	180.1	243.5	517.7	1062.4	1252.4	989.3	565.7	348.6	179.6
85°	79.3	79.9	109.4	150.6	314.2	367.1	376.9	373.8	332.0	228.1	95.9
87.5°	38.1	39.4	56.6	71.3	123.5	113.7	107.6	124.8	156.8	123.0	41.2
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°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1152.2	1150.3	1146.0	1144.2	1143.0	1143.6	1143.0	1143.0	1143.6	1143.6	1143.6
5°	1157.7	1154.7	1147.9	1147.9	1151.6	1160.2	1168.1	1174.4	1181.1	1180.5	1180.5
7.5°	1181.7	1176.2	1168.1	1170.7	1179.8	1193.4	1207.5	1221.0	1234.6	1235.8	1235.2
10°	1216.8	1211.2	1202.6	1205.7	1220.5	1240.7	1258.6	1278.2	1293.0	1297.3	1296.1
12.5°	1256.7	1245.7	1238.3	1246.9	1270.2	1297.3	1314.5	1329.3	1339.7	1345.9	1343.4
15°	1297.3	1286.8	1278.2	1296.1	1324.3	1349.6	1358.1	1360.7	1362.5	1368.6	1367.4
17.5°	1336.7	1322.5	1319.4	1342.8	1369.8	1380.9	1376.0	1365.5	1357.5	1362.5	1361.8
20°	1371.7	1360.7	1359.4	1382.8	1393.2	1382.8	1361.8	1343.4	1329.3	1330.5	1329.9
22.5°	1404.9	1396.3	1397.5	1407.3	1390.8	1355.1	1320.7	1295.5	1280.1	1283.2	1285.0
25°	1441.8	1433.1	1436.3	1420.3	1365.5	1303.5	1253.7	1232.1	1226.0	1232.1	1236.4
27.5°	1489.7	1484.2	1482.3	1420.9	1320.7	1227.2	1170.7	1162.7	1168.1	1181.7	1188.5
30°	1541.4	1541.4	1531.5	1410.4	1259.1	1135.6	1086.4	1087.7	1106.7	1125.8	1132.5
32.5°	1591.2	1601.7	1570.9	1382.2	1179.8	1046.5	1008.9	1010.2	1026.8	1050.2	1056.3
35°	1632.4	1662.5	1604.7	1330.5	1086.4	971.4	943.2	926.5	927.2	945.0	949.9
37.5°	1689.0	1744.9	1624.4	1253.7	986.8	907.5	875.6	846.6	827.5	820.2	820.2
40°	1787.3	1869.7	1629.4	1139.9	892.7	846.6	801.1	766.7	729.8	696.6	690.5
42.5°	1954.0	2057.8	1619.5	1008.9	807.9	779.6	735.4	692.9	641.9	595.2	591.5
45°	2249.1	2302.6	1593.0	873.0	732.3	715.0	672.0	625.9	571.8	530.0	526.9
47.5°	2721.9	2646.3	1558.0	752.5	663.4	658.5	625.3	571.8	517.7	488.8	485.8
50°	3412.4	3187.3	1553.1	665.2	608.0	610.6	583.5	534.3	486.9	463.0	459.3
52.5°	4243.6	3840.8	1585.6	603.8	559.5	568.7	555.2	509.7	467.8	447.6	443.9
55°	5050.3	4428.6	1605.3	555.8	514.0	531.3	533.0	494.9	456.8	436.6	434.0
57.5°	5705.1	4871.3	1518.0	512.2	474.7	501.1	514.6	486.4	451.3	435.9	433.5
60°	6160.7	5080.4	1269.7	473.4	445.7	477.1	507.9	486.9	464.8	466.7	467.8
62.5°	6305.7	4987.6	952.3	444.6	426.1	469.1	518.9	512.2	489.4	503.6	506.0
65°	6065.4	4603.9	690.5	421.8	408.9	474.7	552.1	530.6	480.8	491.2	491.2
67.5°	5260.5	3966.3	537.4	400.9	389.2	485.1	585.3	528.7	460.5	472.8	461.7
70°	4172.9	3068.1	447.6	377.5	368.3	469.7	588.4	509.7	436.6	439.0	418.1
72.5°	2769.2	2017.3	384.9	355.4	336.3	422.4	563.2	485.1	413.2	399.1	378.1
75°	1357.0	1005.8	335.7	327.7	294.5	367.7	528.7	461.7	388.0	365.8	354.1
77.5°	525.7	427.9	286.5	292.7	256.4	324.0	483.2	428.6	354.7	324.6	315.4
80°	255.2	242.9	234.9	244.1	210.9	276.1	441.4	399.6	324.0	290.8	277.3
82.5°	158.6	150.0	180.1	190.0	162.3	252.0	418.7	375.1	285.3	241.0	229.9
85°	80.6	86.1	120.5	129.8	116.2	200.4	344.9	281.6	206.0	170.9	172.2
87.5°	30.8	41.2	63.3	68.2	62.1	105.7	190.0	164.2	132.2	89.7	83.0
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)