

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: P527022

Luminaire Tested: **GALN-SA2A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7140 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

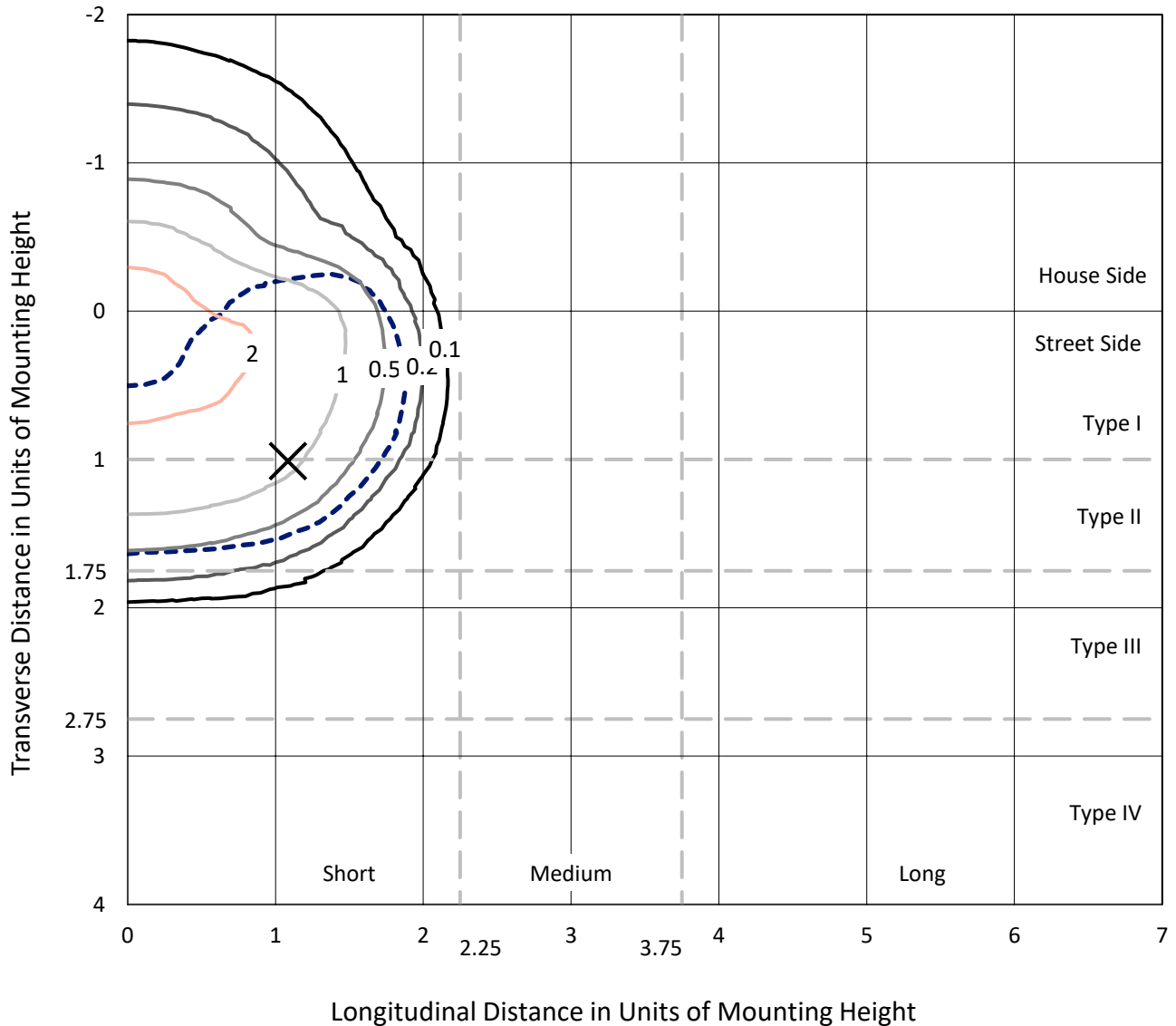
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

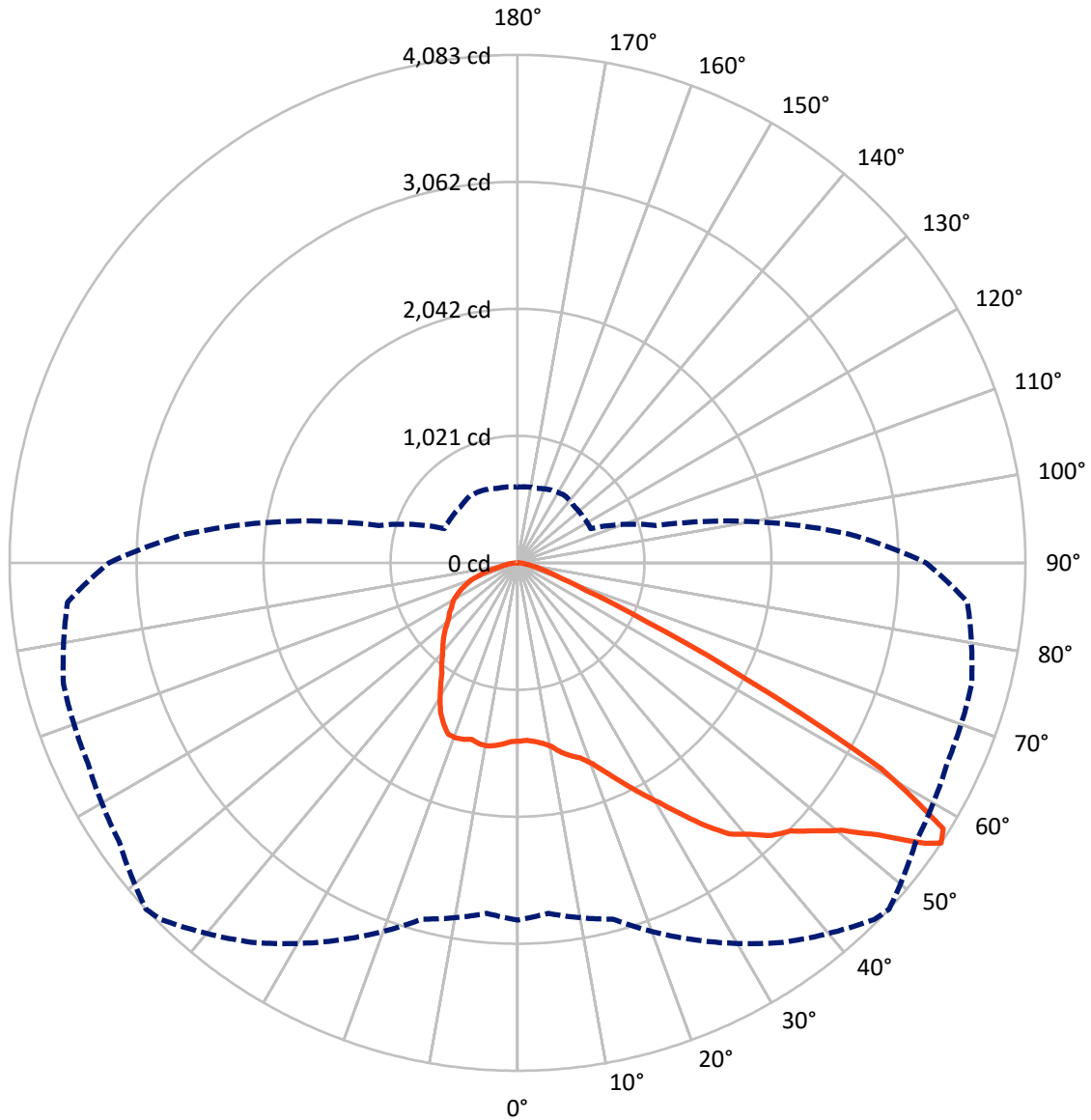
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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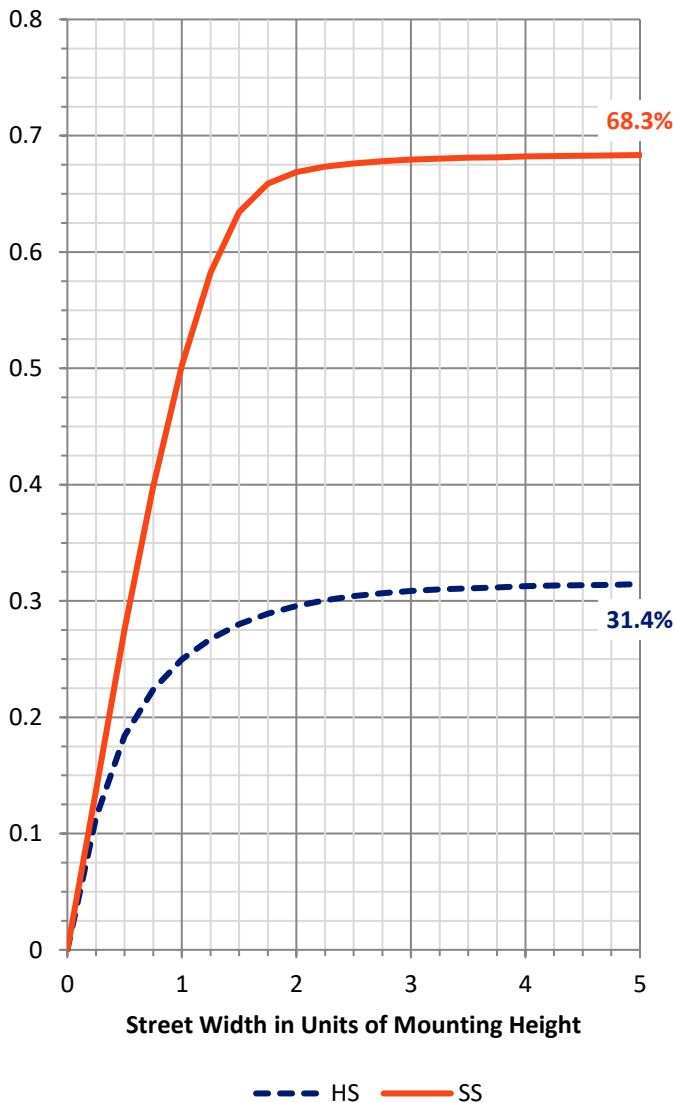
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2262.6	0.0	2262.6
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	4877.4	0.0	4877.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	7140.0	0.0	7140.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	2.0
10°-20°	440.8	6.2
20°-30°	779.3	10.9
30°-40°	1170.4	16.4
40°-50°	1606.3	22.5
50°-60°	1913.7	26.8
60°-70°	819.0	11.5
70°-80°	231.8	3.2
80°-90°	39.0	0.5
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°	7140.0	100.0
0°-180°	7140.0	100.0

**Coefficient of Utilization**

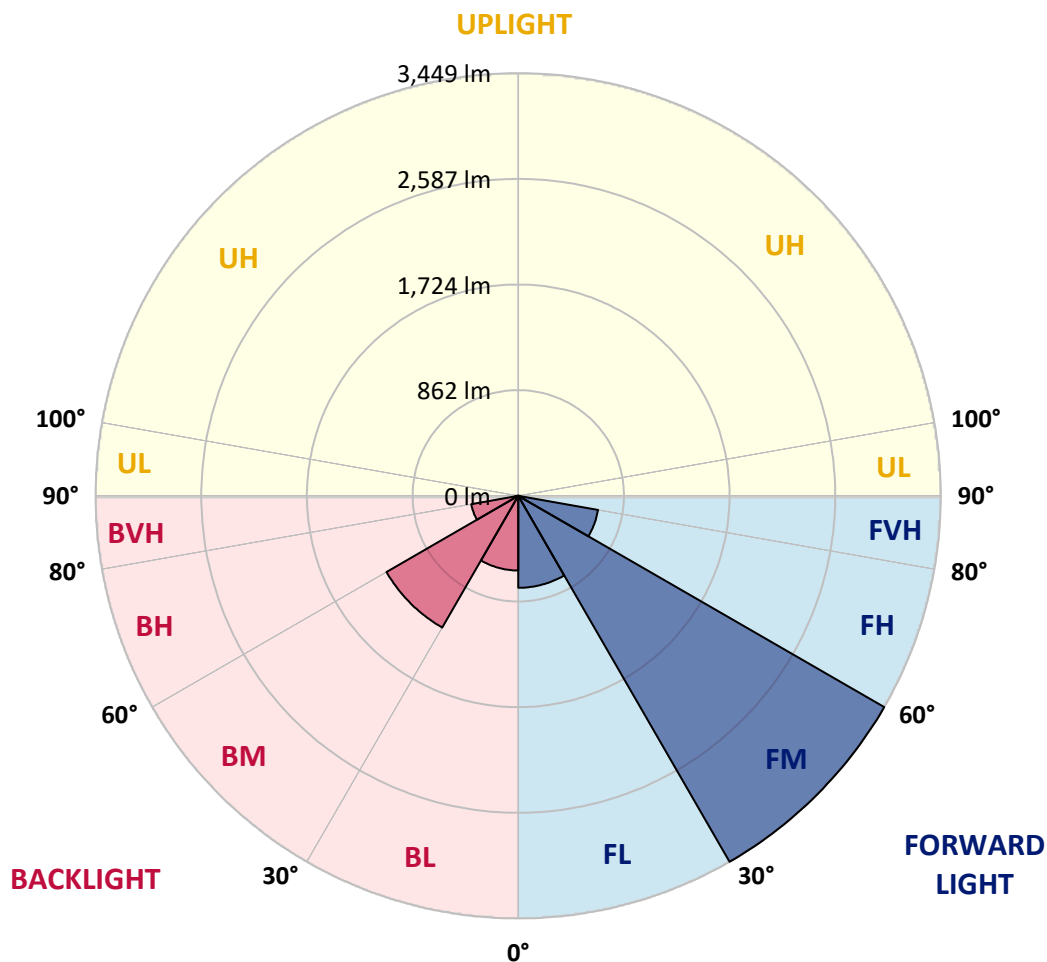


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.7	10.5			
FM (30°-60°)	3448.8	48.3			
FH (60°-80°)	661.4	9.3			G1/1800
FVH (80°-90°)	16.6	0.2			G1/100
BL (0°-30°)	609.2	8.5	B2/1000		
BM (30°-60°)	1241.7	17.4	B2/2500		
BH (60°-80°)	389.3	5.5	B1/500		G1/500
BVH (80°-90°)	22.4	0.3			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°	47°	55°	65°	75°	85°
0°	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2
2.5°	1428.7	1426.0	1424.2	1438.8	1433.3	1434.2	1428.7	1434.2	1437.9	1429.7	1441.5
5°	1426.0	1434.2	1426.9	1431.5	1443.3	1439.7	1443.3	1454.2	1451.5	1448.8	1445.1
7.5°	1451.5	1452.4	1457.9	1459.7	1463.3	1459.7	1465.2	1475.2	1472.5	1457.0	1458.8
10°	1487.9	1489.8	1490.7	1500.7	1507.1	1508.0	1501.6	1492.5	1491.6	1512.5	1498.0
12.5°	1529.8	1525.3	1536.2	1539.8	1547.1	1555.3	1563.5	1544.4	1556.2	1557.1	1539.8
15°	1590.8	1595.4	1582.6	1582.6	1585.4	1586.3	1609.0	1599.9	1598.1	1588.1	1595.4
17.5°	1681.9	1650.9	1650.0	1637.3	1635.5	1642.7	1650.9	1658.2	1682.8	1662.8	1623.6
20°	1748.4	1755.7	1729.2	1713.8	1716.5	1732.9	1724.7	1757.5	1774.8	1742.0	1703.7
22.5°	1865.8	1841.3	1847.6	1813.0	1815.8	1833.1	1832.1	1865.8	1875.9	1823.9	1768.4
25°	1945.1	1938.7	1944.2	1916.8	1920.5	1934.1	1956.0	2011.5	1995.1	1937.8	1809.4
27.5°	2060.7	2048.0	2043.4	2033.4	2029.7	2066.2	2091.7	2150.9	2139.0	2055.2	1882.2
30°	2179.1	2170.9	2175.4	2134.5	2149.0	2226.4	2233.7	2314.8	2309.3	2161.8	1963.3
32.5°	2261.0	2265.6	2273.8	2251.0	2315.7	2377.6	2402.2	2494.2	2498.7	2344.8	2119.9
35°	2393.1	2377.6	2382.2	2408.6	2438.6	2551.5	2591.6	2652.6	2690.8	2537.0	2270.1
37.5°	2475.9	2492.3	2473.2	2515.1	2593.4	2729.1	2765.5	2828.4	2868.4	2726.4	2475.0
40°	2605.3	2578.8	2592.5	2622.6	2702.7	2879.3	2869.3	2934.0	2946.7	2887.5	2666.3
42.5°	2744.6	2731.8	2712.7	2781.0	2848.4	2976.8	2996.8	2966.8	3031.4	3045.1	2939.4
45°	2911.2	2926.7	2929.4	2931.3	2990.4	3102.4	3075.1	3048.7	3123.4	3222.6	3108.8
47.5°	3066.0	3016.8	3052.4	3101.5	3185.3	3186.2	3218.1	3155.3	3234.5	3322.8	3261.8
50°	3117.9	3094.2	3141.6	3234.5	3363.8	3377.4	3381.1	3291.9	3332.8	3402.9	3314.6
52.5°	3097.9	3089.7	3210.8	3354.7	3544.1	3613.3	3631.5	3521.3	3544.1	3512.2	3431.2
55°	3002.3	3026.9	3148.9	3442.1	3732.6	3946.6	3981.2	3841.9	3697.1	3721.7	3632.4
56°	2871.1	2828.4	2964.9	3342.8	3724.4	4054.9	4083.2	3909.2	3810.9	3779.0	3630.6
57.5°	2435.9	2380.3	2559.7	3007.7	3517.7	4014.0	4034.9	3937.5	3791.8	3727.1	3365.6
60°	1426.0	1453.3	1681.0	2074.4	2713.6	3290.9	3361.1	3432.1	3334.6	3045.1	2505.1
62.5°	688.4	671.1	834.1	1189.3	1653.7	2100.8	2079.8	2279.3	2388.5	2163.6	1581.7
65°	360.6	358.8	455.3	649.3	908.8	1103.7	1122.8	1230.2	1380.5	1114.6	803.2
67.5°	265.0	272.3	320.5	456.2	584.6	596.4	593.7	647.4	662.0	560.0	493.6
70°	207.6	211.3	246.8	346.9	435.3	389.7	381.5	387.9	430.7	448.9	427.1
72.5°	150.3	153.9	183.9	234.0	272.3	265.9	271.4	306.9	359.7	378.8	356.0
75°	100.2	102.9	119.3	143.0	161.2	173.9	183.9	224.9	274.1	285.0	274.1
77.5°	69.2	71.9	82.9	101.1	102.9	111.1	114.7	133.9	163.9	177.6	170.3
80°	39.2	39.2	44.6	51.9	63.7	74.7	76.5	92.0	105.6	114.7	116.6
82.5°	18.2	19.1	23.7	31.9	41.9	51.9	53.7	63.7	73.8	82.9	85.6
85°	9.1	10.0	13.7	19.1	25.5	31.0	30.1	31.0	32.8	31.0	31.9
87.5°	2.7	2.7	3.6	4.6	3.6	4.6	4.6	5.5	6.4	7.3	8.2
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°	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2	1434.2
2.5°	1442.4	1445.1	1426.9	1444.2	1437.9	1436.9	1449.7	1447.9	1452.4	1450.6	1439.7
5°	1443.3	1436.9	1456.1	1438.8	1447.0	1464.3	1452.4	1479.7	1466.1	1475.2	1455.2
7.5°	1471.5	1473.4	1469.7	1477.0	1473.4	1481.6	1475.2	1481.6	1470.6	1471.5	1489.8
10°	1496.1	1490.7	1497.0	1487.9	1494.3	1491.6	1477.0	1472.5	1476.1	1471.5	1483.4
12.5°	1541.7	1531.6	1527.1	1516.2	1508.9	1481.6	1458.8	1446.0	1463.3	1466.1	1460.6
15°	1588.1	1589.0	1568.1	1543.5	1498.0	1457.0	1462.4	1467.0	1467.0	1474.3	1460.6
17.5°	1617.2	1617.2	1598.1	1548.9	1502.5	1478.8	1473.4	1458.8	1446.0	1444.2	1443.3
20°	1668.2	1652.8	1609.0	1548.0	1500.7	1489.8	1448.8	1414.2	1387.8	1378.7	1377.8
22.5°	1726.5	1687.4	1626.3	1549.9	1498.0	1482.5	1406.0	1354.1	1306.7	1286.7	1289.4
25°	1780.2	1717.4	1636.4	1541.7	1487.9	1413.3	1327.7	1255.7	1206.6	1190.2	1182.0
27.5°	1817.6	1749.3	1636.4	1548.9	1450.6	1335.9	1248.4	1156.5	1113.7	1102.7	1104.6
30°	1867.7	1789.3	1664.6	1533.5	1375.9	1235.7	1131.0	1070.9	1045.4	1036.3	1042.6
32.5°	1985.1	1894.1	1703.7	1496.1	1287.6	1135.5	1050.8	1017.2	979.8	961.6	955.2
35°	2112.6	1993.3	1742.0	1433.3	1188.3	1044.5	991.7	960.7	916.1	896.0	899.7
37.5°	2292.9	2120.8	1744.7	1329.5	1080.9	993.5	945.2	896.9	860.5	829.6	820.5
40°	2536.0	2294.7	1738.4	1220.2	994.4	933.4	897.9	837.8	796.8	774.9	779.5
42.5°	2750.0	2498.7	1711.9	1096.4	916.1	892.4	852.3	793.1	753.1	730.3	728.5
45°	2930.3	2649.0	1661.9	990.7	850.5	846.9	800.4	754.9	723.0	702.1	711.2
47.5°	3097.0	2770.1	1586.3	885.1	790.4	797.7	753.1	724.8	704.8	685.7	684.8
50°	3157.1	2768.3	1519.8	797.7	742.1	738.5	736.7	706.6	685.7	669.3	676.6
52.5°	3257.2	2799.2	1447.9	737.6	698.4	699.3	705.7	683.9	660.2	650.2	659.3
55°	3401.1	2803.8	1289.4	667.5	662.0	668.4	668.4	653.8	633.8	625.6	621.0
56°	3283.7	2668.1	1156.5	649.3	643.8	643.8	661.1	644.7	620.1	613.8	608.3
57.5°	3028.7	2337.5	968.0	627.4	619.2	632.0	641.1	623.8	601.0	591.9	597.4
60°	2088.9	1581.7	727.6	580.1	580.1	601.0	608.3	582.8	572.8	571.9	564.6
62.5°	1219.3	921.5	569.1	537.3	539.1	556.4	561.8	547.3	534.5	550.0	557.3
65°	646.5	550.0	488.1	491.7	492.6	506.3	530.0	529.1	528.2	532.7	533.6
67.5°	468.1	457.1	443.5	439.8	441.6	451.7	475.3	493.6	492.6	481.7	473.5
70°	417.1	401.6	393.4	394.3	387.0	398.8	418.0	429.8	408.9	396.1	390.7
72.5°	346.9	342.4	336.9	337.8	323.3	320.5	298.7	298.7	293.2	289.6	295.9
75°	265.0	263.2	265.9	261.3	245.9	229.5	216.7	204.9	186.7	179.4	175.7
77.5°	167.6	173.0	179.4	169.4	163.0	151.2	138.4	126.6	112.0	103.8	103.8
80°	113.8	118.4	122.9	121.1	113.8	102.9	92.9	80.1	70.1	63.7	62.8
82.5°	86.5	90.2	96.5	89.2	82.0	72.8	64.7	55.5	46.4	39.2	39.2
85°	31.0	35.5	39.2	42.8	45.5	46.4	40.1	32.8	26.4	20.9	20.0
87.5°	8.2	9.1	10.0	9.1	9.1	9.1	10.0	9.1	8.2	6.4	6.4
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)