

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: P527616

Luminaire Tested: **GALN-SA2C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8717 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

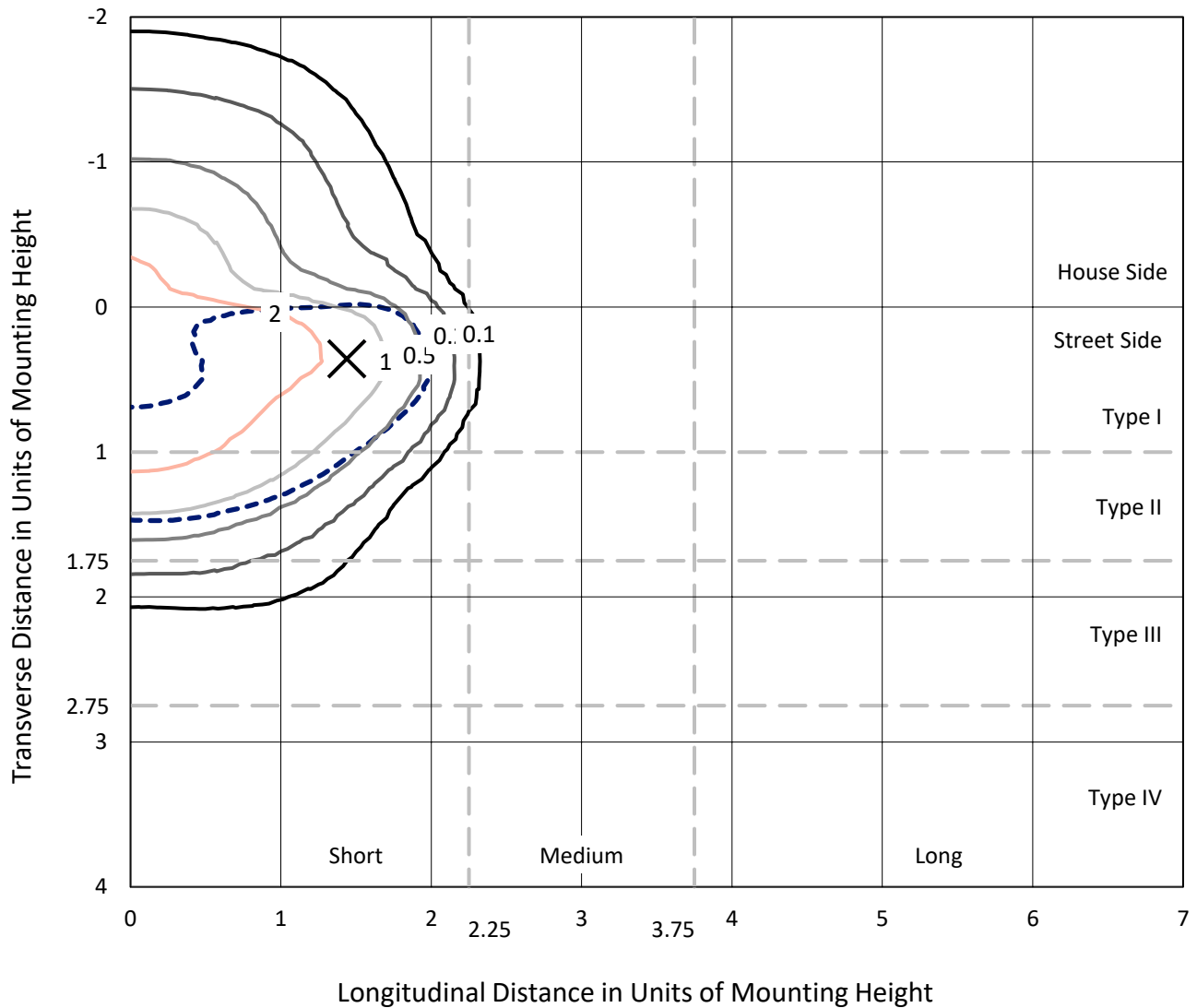
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

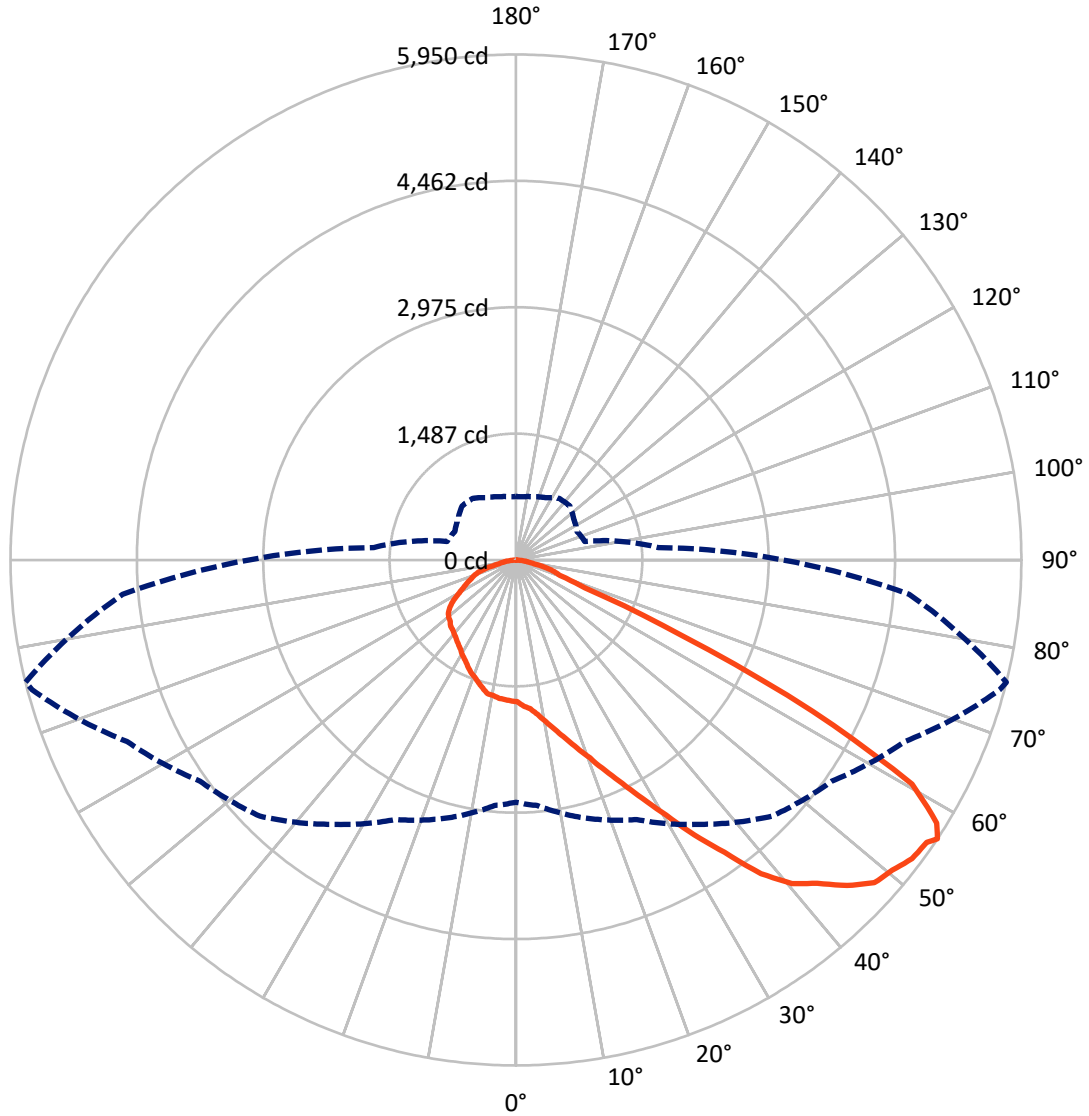
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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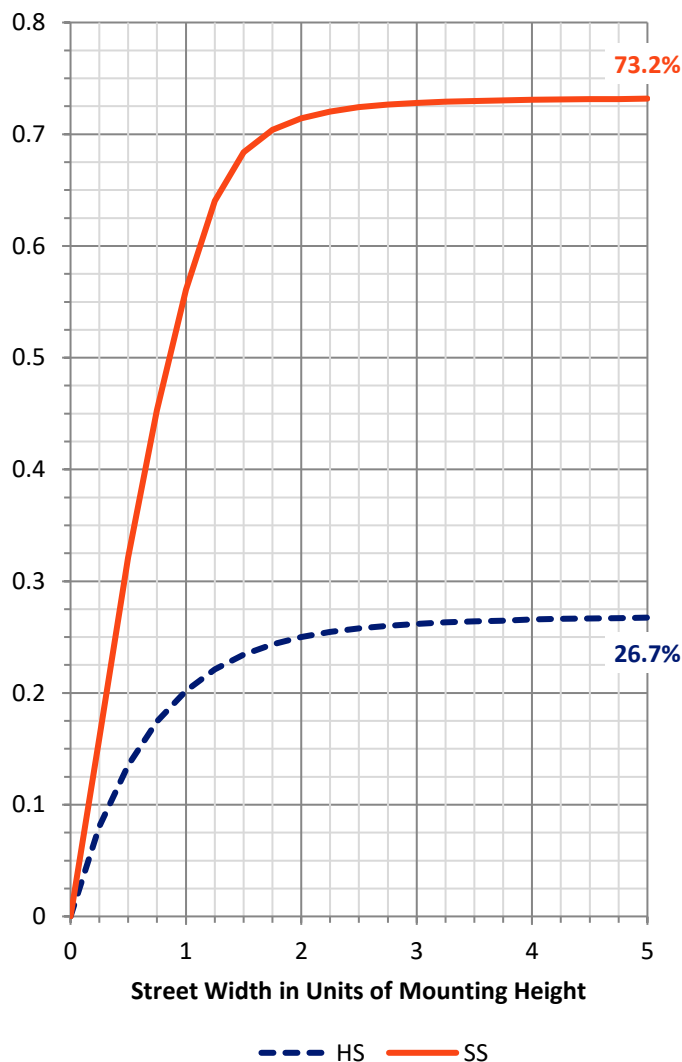
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2343.7	0.0	2343.7
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	6373.3	0.0	6373.3
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	8717.0	0.0	8717.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.4	1.9
10°-20°	519.6	6.0
20°-30°	908.7	10.4
30°-40°	1422.7	16.3
40°-50°	2069.7	23.7
50°-60°	2274.7	26.1
60°-70°	1015.3	11.6
70°-80°	293.3	3.4
80°-90°	47.6	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°	8717.0	100.0
0°-180°	8717.0	100.0

**Coefficient of Utilization**

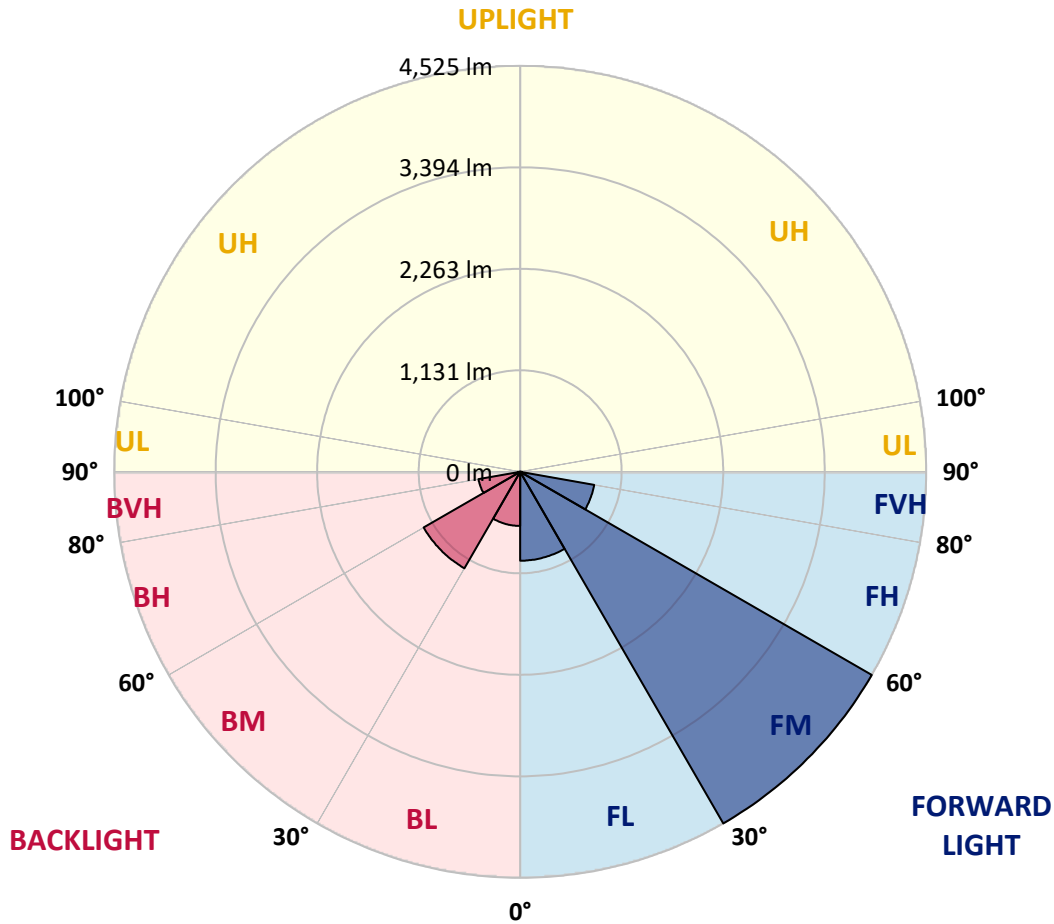


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.6	11.4			
FM (30°-60°)	4525.2	51.9			
FH (60°-80°)	837.0	9.6			G1/1800
FVH (80°-90°)	20.5	0.2			G1/100
BL (0°-30°)	603.1	6.9	B2/1000		
BM (30°-60°)	1242.0	14.2	B2/2500		
BH (60°-80°)	471.6	5.4	B1/500		G1/500
BVH (80°-90°)	27.1	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°	55°	65°	75°	76°	85°
0°	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9
2.5°	1837.4	1808.0	1805.7	1797.8	1802.4	1782.0	1760.5	1732.3	1702.9	1721.0	1678.1
5°	1966.2	1926.7	1942.5	1915.4	1918.7	1891.6	1847.6	1814.8	1778.6	1757.2	1726.6
7.5°	2011.4	2014.8	2026.1	2021.6	1999.0	1999.0	1969.6	1912.0	1848.7	1836.3	1785.4
10°	2072.4	2073.6	2061.1	2064.5	2096.2	2081.5	2055.5	2030.6	1949.3	1934.6	1844.2
12.5°	2093.9	2073.6	2093.9	2112.0	2149.3	2169.6	2164.0	2145.9	2058.9	2048.7	1916.5
15°	2097.3	2084.9	2101.8	2142.5	2175.3	2261.1	2304.1	2291.6	2176.4	2177.5	1997.8
17.5°	2081.5	2098.4	2105.2	2140.2	2215.9	2296.2	2420.5	2437.4	2342.5	2327.8	2100.7
20°	2102.9	2090.5	2099.5	2131.2	2231.8	2357.2	2519.9	2631.8	2498.4	2488.3	2206.9
22.5°	2185.4	2168.5	2166.2	2186.6	2258.9	2388.8	2625.0	2826.1	2688.3	2693.9	2339.1
25°	2249.8	2258.9	2251.0	2249.8	2295.0	2436.3	2764.0	3057.8	2945.9	2913.2	2495.0
27.5°	2360.6	2382.0	2366.2	2387.7	2377.5	2507.5	2863.4	3314.3	3223.9	3179.8	2636.3
30°	2514.3	2525.6	2510.9	2510.9	2480.4	2606.9	2953.8	3582.1	3544.8	3484.9	2802.4
32.5°	2716.5	2733.5	2704.1	2687.1	2682.6	2754.9	3116.6	3846.5	3909.8	3859.0	3022.8
35°	2984.3	2974.2	2939.1	2923.3	2862.3	2982.1	3358.4	4150.5	4316.6	4226.2	3289.4
37.5°	3220.5	3204.7	3202.4	3114.3	3129.0	3227.3	3564.0	4381.0	4711.0	4685.0	3570.8
40°	3440.9	3455.6	3479.3	3429.6	3407.0	3515.4	3803.6	4557.3	5017.2	5007.0	3787.8
42.5°	3677.0	3663.5	3705.3	3663.5	3629.6	3783.3	4063.5	4679.3	5286.2	5202.5	4014.9
45°	4019.4	3976.5	3991.2	3994.6	3969.7	4026.2	4170.8	4767.5	5474.9	5465.8	4181.0
47.5°	4305.3	4306.4	4281.6	4262.4	4186.7	4243.2	4290.6	4822.9	5691.8	5677.1	4245.4
50°	4411.5	4396.8	4469.2	4511.0	4515.5	4400.2	4384.4	4853.4	5806.0	5741.6	4309.8
52.5°	4029.6	4043.2	4157.3	4405.9	4549.4	4561.8	4494.0	4916.6	5852.3	5838.7	4361.8
55°	3243.1	3308.7	3496.2	3783.3	4123.4	4497.4	4612.7	4982.2	5877.2	5865.9	4592.3
56°	2851.0	2901.9	3145.9	3370.8	3797.9	4263.5	4538.1	5052.2	5896.4	5949.5	4646.6
57.5°	2295.0	2353.8	2528.9	2784.3	3288.3	3818.3	4332.4	4966.4	5821.8	5842.1	4686.1
60°	1435.1	1440.8	1650.9	1819.3	2174.1	2691.7	3306.4	4321.1	5387.9	5358.5	4209.3
62.5°	941.3	942.4	1133.4	1271.3	1432.8	1551.5	1945.9	2865.7	3975.4	3923.4	2996.8
65°	661.1	675.7	823.8	1008.0	1073.5	1011.4	998.9	1510.8	2220.5	2145.9	1610.3
67.5°	483.6	484.8	615.9	813.6	908.5	769.5	624.9	737.9	879.1	876.9	745.8
70°	319.8	333.4	433.9	607.9	716.4	618.1	510.8	527.7	559.4	559.4	554.8
72.5°	186.5	198.9	265.6	385.3	402.3	386.5	404.5	452.0	472.3	471.2	465.6
75°	106.2	111.9	126.6	160.5	200.0	236.2	297.2	342.4	362.7	375.2	360.5
77.5°	62.2	65.5	74.6	91.5	104.0	127.7	161.6	193.2	220.4	217.0	219.2
80°	32.8	32.8	41.8	54.2	72.3	90.4	107.4	125.4	140.1	143.5	146.9
82.5°	19.2	20.3	27.1	39.6	52.0	64.4	82.5	94.9	108.5	109.6	111.9
85°	10.2	11.3	17.0	26.0	35.0	39.6	40.7	38.4	41.8	39.6	45.2
87.5°	3.4	3.4	5.7	4.5	4.5	5.7	6.8	6.8	9.0	9.0	9.0
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°	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9	1667.9
2.5°	1676.9	1676.9	1657.7	1621.6	1615.9	1601.2	1587.7	1586.5	1576.4	1567.3	1562.8
5°	1708.6	1673.5	1645.3	1612.5	1574.1	1556.0	1535.7	1513.1	1504.0	1513.1	1511.9
7.5°	1744.7	1715.3	1630.6	1569.6	1525.5	1507.4	1484.8	1461.1	1463.4	1463.4	1447.5
10°	1779.8	1740.2	1604.6	1526.6	1462.2	1448.7	1436.2	1445.3	1456.6	1458.8	1448.7
12.5°	1838.5	1749.2	1592.2	1483.7	1443.0	1413.6	1421.5	1446.4	1470.1	1463.4	1471.3
15°	1882.6	1757.2	1535.7	1439.6	1388.8	1402.3	1430.6	1447.5	1487.1	1482.6	1490.5
17.5°	1925.5	1761.7	1480.3	1380.9	1359.4	1396.7	1418.2	1466.7	1479.2	1506.3	1516.5
20°	2013.7	1770.7	1423.8	1344.7	1337.9	1380.9	1418.2	1440.8	1467.9	1491.6	1491.6
22.5°	2058.9	1766.2	1386.5	1297.2	1318.7	1345.8	1379.7	1418.2	1418.2	1440.8	1441.9
25°	2115.4	1748.1	1327.8	1274.6	1290.5	1316.5	1354.9	1341.3	1356.0	1356.0	1374.1
27.5°	2179.8	1709.7	1276.9	1234.0	1265.6	1293.9	1299.5	1290.5	1273.5	1271.3	1264.5
30°	2231.8	1662.2	1239.6	1220.4	1246.4	1262.2	1244.1	1224.9	1195.5	1193.3	1177.5
32.5°	2302.9	1603.5	1193.3	1186.5	1215.9	1217.0	1211.4	1182.0	1139.0	1121.0	1102.9
35°	2422.7	1569.6	1158.3	1168.4	1177.5	1174.1	1163.9	1132.3	1089.3	1081.4	1074.6
37.5°	2510.9	1544.7	1122.1	1134.5	1142.4	1147.0	1116.4	1081.4	1082.5	1066.7	1062.2
40°	2610.3	1528.9	1092.7	1098.4	1099.5	1114.2	1076.9	1059.9	1067.9	1057.7	1064.5
42.5°	2738.0	1533.4	1062.2	1057.7	1079.2	1073.5	1055.4	1032.8	1037.3	1006.8	1011.4
45°	2805.8	1563.9	1044.1	1023.8	1047.5	1046.4	1022.7	1001.2	974.1	915.3	917.6
47.5°	2851.0	1571.8	1001.2	987.6	1012.5	1027.2	1000.1	950.3	911.9	870.1	859.9
50°	2897.3	1586.5	980.8	952.6	962.8	997.8	963.9	916.4	879.1	841.9	847.5
52.5°	2938.0	1614.8	941.3	899.5	917.6	956.0	937.9	880.3	839.6	809.1	800.0
55°	3118.8	1678.1	874.6	820.4	863.3	911.9	901.7	831.7	787.6	771.8	769.5
56°	3147.1	1680.3	839.6	793.3	832.8	897.2	884.8	810.2	770.7	745.8	746.9
57.5°	3151.6	1653.2	789.9	768.4	802.3	875.8	859.9	793.3	739.0	716.4	709.6
60°	2773.0	1290.5	727.7	714.2	753.7	810.2	804.6	746.9	685.9	659.9	672.4
62.5°	1890.5	945.8	679.1	676.9	697.2	752.6	737.9	685.9	635.1	618.1	610.2
65°	1100.6	717.6	631.7	622.6	639.6	669.0	679.1	624.9	571.8	560.5	557.1
67.5°	649.8	593.3	570.7	556.0	550.3	568.4	576.3	544.7	491.6	475.7	489.3
70°	543.5	527.7	528.8	504.0	490.4	478.0	471.2	443.0	398.9	378.6	372.9
72.5°	469.0	462.2	457.7	435.1	422.6	394.4	365.0	336.7	304.0	287.0	288.2
75°	358.2	356.0	358.2	346.9	325.4	302.8	275.7	239.6	214.7	193.2	197.8
77.5°	213.6	220.4	223.7	219.2	210.2	189.8	172.9	149.2	125.4	108.5	106.2
80°	146.9	152.6	158.2	152.6	143.5	128.8	110.7	92.7	75.7	66.7	64.4
82.5°	111.9	117.5	120.9	115.3	104.0	88.1	75.7	63.3	49.7	40.7	38.4
85°	40.7	46.3	45.2	54.2	58.8	56.5	48.6	37.3	28.3	20.3	19.2
87.5°	11.3	10.2	11.3	11.3	11.3	10.2	9.0	9.0	9.0	5.7	4.5
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)