

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: P527540

Luminaire Tested: **GALN-SA2C-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527540  
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-SA2C-740-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA 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: 12423 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

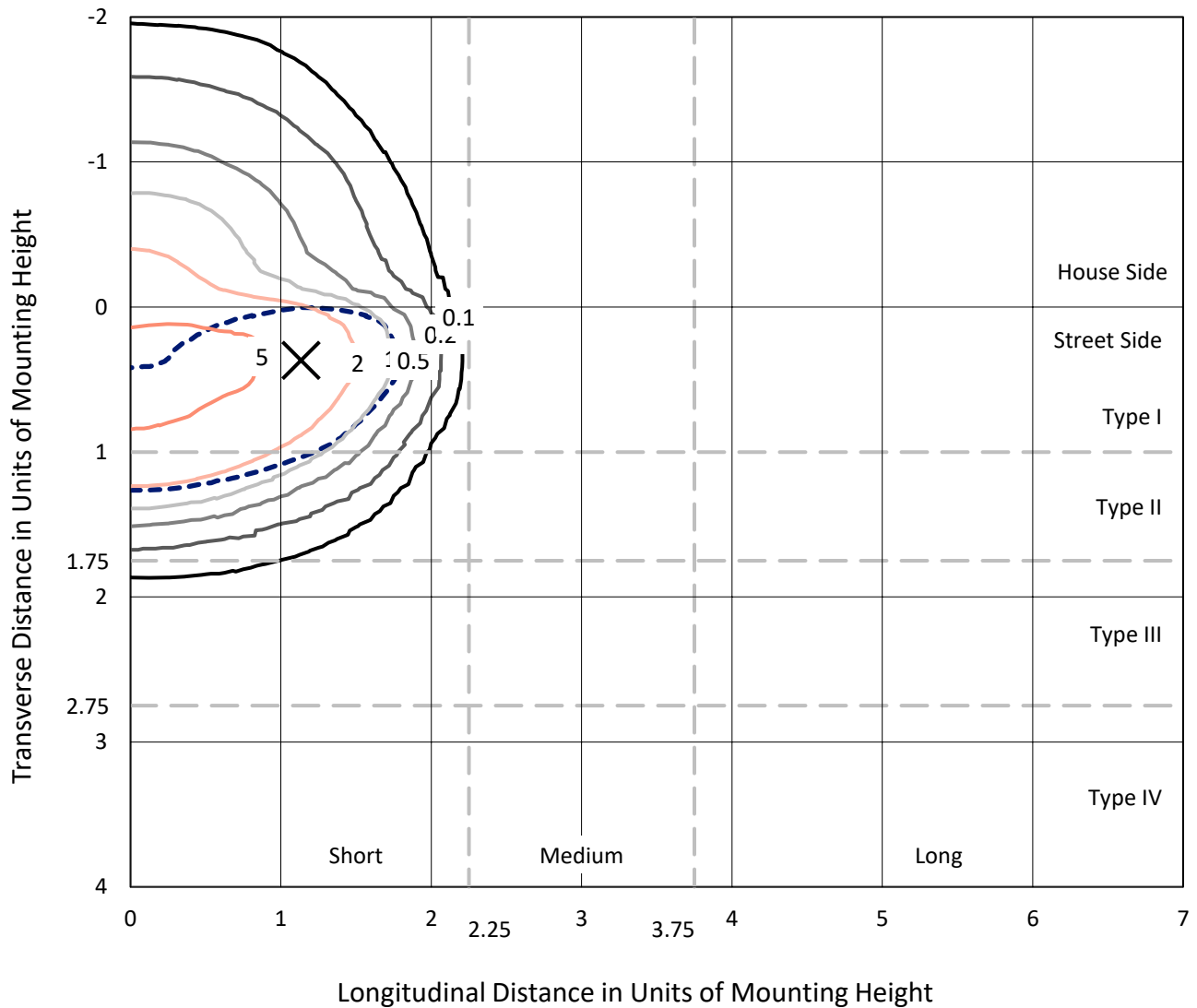
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

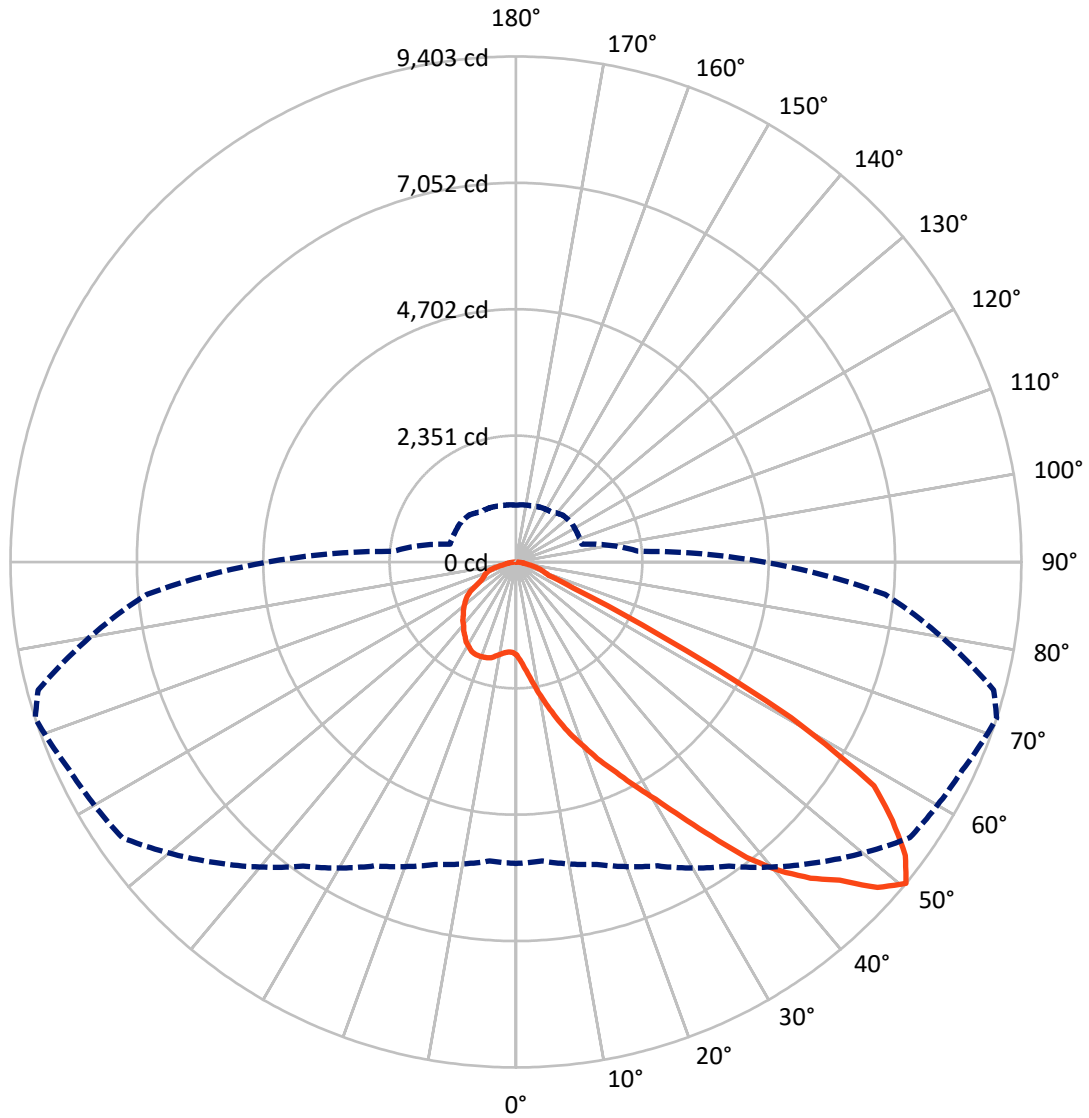
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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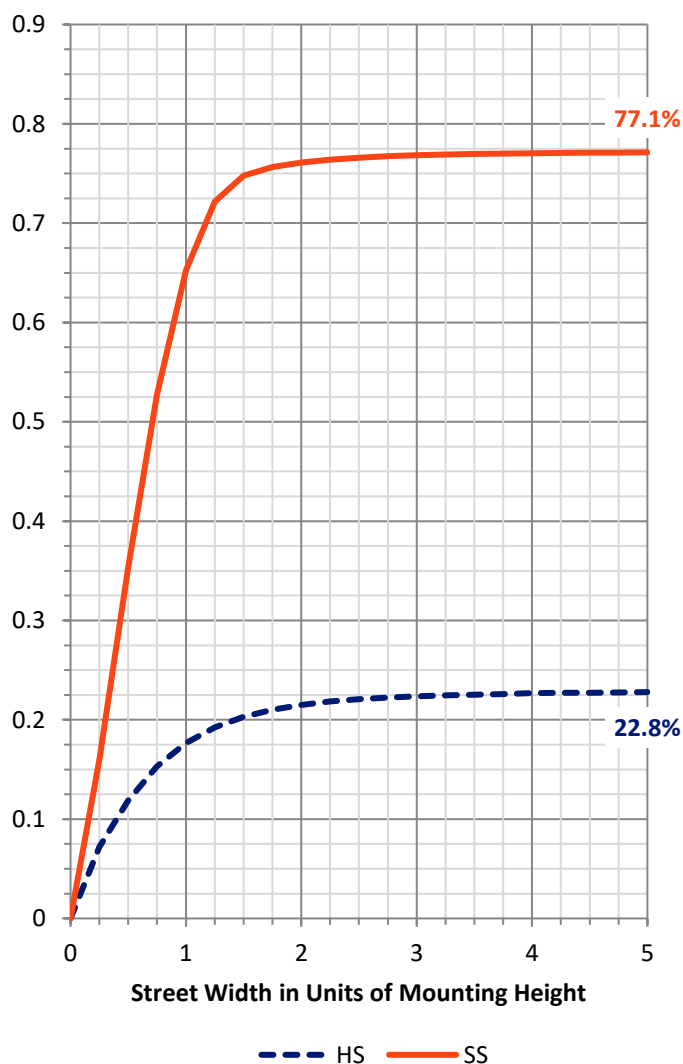
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2846.2	0.0	2846.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	9576.8	0.0	9576.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	12423.0	0.0	12423.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.4	1.6
10°-20°	760.5	6.1
20°-30°	1474.5	11.9
30°-40°	2442.7	19.7
40°-50°	3417.8	27.5
50°-60°	2883.4	23.2
60°-70°	878.8	7.1
70°-80°	308.3	2.5
80°-90°	53.6	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°	12423.0	100.0
0°-180°	12423.0	100.0

**Coefficient of Utilization**

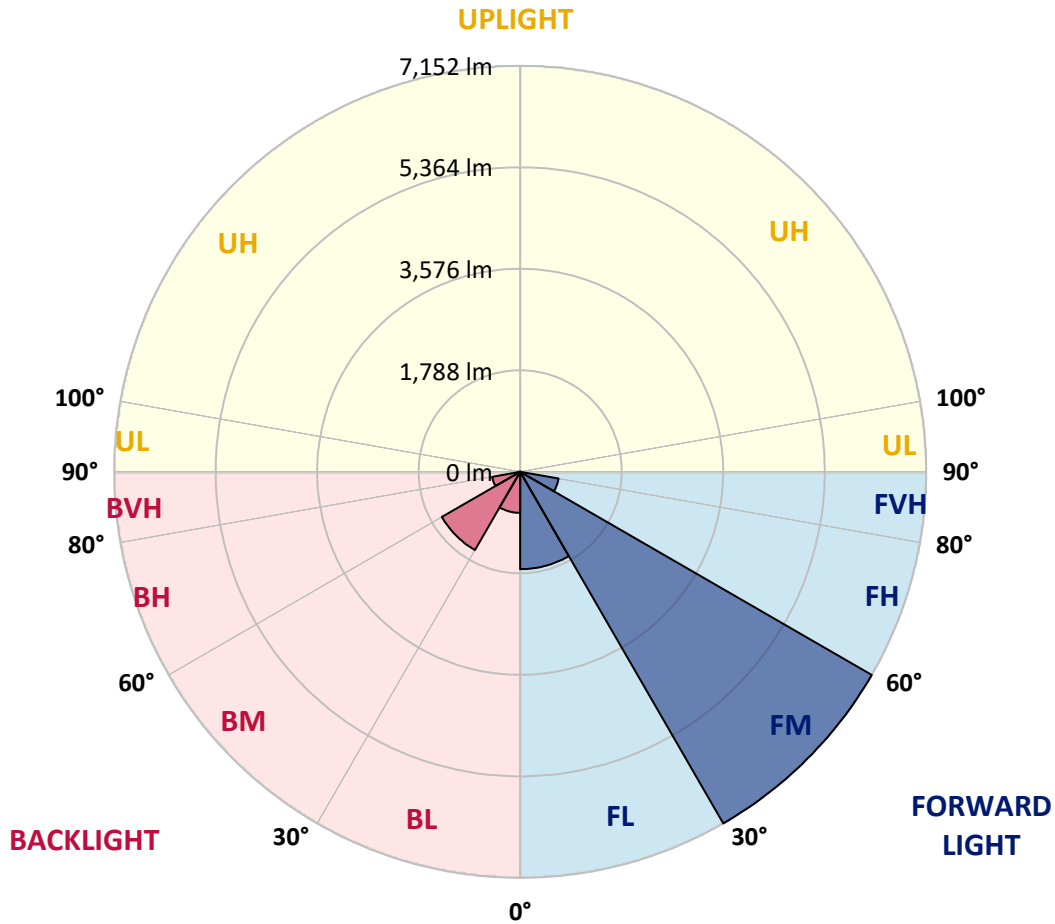


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.8	13.8			
FM (30°-60°)	7152.3	57.6			
FH (60°-80°)	685.7	5.5			G1/1800
FVH (80°-90°)	24.0	0.2			G1/100
BL (0°-30°)	723.5	5.8	B2/1000		
BM (30°-60°)	1591.6	12.8	B2/2500		
BH (60°-80°)	501.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	29.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	2224.4	2210.5	2169.0	2155.2	2106.0	2016.9	1986.1	1895.4	1857.0	1821.6	1780.1
5°	2813.1	2748.6	2744.0	2665.6	2551.8	2485.7	2288.9	2156.7	2035.3	1973.8	1860.1
7.5°	3188.2	3189.8	3189.8	3125.2	3034.5	2866.9	2690.2	2451.9	2269.0	2178.3	1984.6
10°	3544.9	3514.1	3497.2	3491.1	3429.6	3266.6	3077.5	2782.4	2531.8	2425.8	2078.3
12.5°	3797.0	3770.8	3809.3	3789.3	3744.7	3638.6	3460.3	3123.7	2810.1	2667.1	2229.0
15°	3916.9	3935.3	3966.1	4021.4	4001.4	3961.5	3764.7	3474.1	3109.8	2948.4	2362.7
17.5°	4101.3	4050.6	4087.5	4156.7	4212.0	4193.6	4081.4	3727.8	3406.5	3208.2	2542.6
20°	4230.5	4201.3	4219.7	4299.6	4341.1	4445.7	4387.3	4059.8	3690.9	3481.8	2754.7
22.5°	4599.4	4556.4	4496.4	4508.7	4524.1	4597.9	4611.7	4424.2	4021.4	3800.0	2956.1
25°	5054.4	5014.5	4943.7	4871.5	4826.9	4813.1	4860.7	4710.1	4338.1	4109.0	3172.8
27.5°	5555.6	5487.9	5443.3	5294.2	5174.3	5155.9	5132.8	5051.3	4713.2	4465.7	3417.3
30°	6042.9	5989.1	5929.1	5690.8	5566.3	5546.3	5432.6	5455.6	5120.5	4845.4	3694.0
32.5°	6411.8	6416.4	6279.6	6099.7	5982.9	5876.8	5835.3	5901.4	5643.2	5421.8	4003.0
35°	6710.0	6723.9	6593.2	6430.2	6304.2	6378.0	6359.5	6390.3	6267.3	5996.7	4362.7
37.5°	7000.6	6931.4	6791.5	6713.1	6647.0	6768.4	6925.2	6951.4	6974.4	6656.2	4780.8
40°	7048.2	7054.4	6972.9	7028.2	6945.2	7128.2	7492.5	7458.7	7552.4	7274.2	5234.3
42.5°	6980.6	6994.4	7026.7	7105.1	7304.9	7524.8	8065.9	7927.5	8041.3	7793.8	5675.5
45°	6869.9	6813.0	6853.0	7151.2	7497.1	7985.9	8590.1	8482.5	8445.6	8238.0	6201.2
47.5°	6341.1	6399.5	6524.0	6891.4	7411.0	8065.9	8962.1	8937.5	9048.2	8902.1	6679.3
50°	5607.8	5584.8	5824.6	6238.1	6908.3	7909.1	8942.1	9165.0	9403.3	9200.3	6893.0
52.5°	4199.7	4322.7	4528.7	5042.1	5998.3	7054.4	8505.5	8877.5	9071.2	9028.2	6720.8
55°	2654.8	2691.7	2816.2	3426.5	4287.3	5661.6	7291.1	8153.5	8499.4	8660.8	6562.4
57.5°	1289.7	1220.6	1372.7	1863.1	2476.5	3807.7	5623.2	7102.0	7853.7	8145.8	6218.1
60°	673.3	699.4	759.4	934.6	1280.5	1976.9	3504.9	4733.1	5881.5	6330.3	4713.2
62.5°	558.0	567.2	607.2	694.8	851.6	1137.6	1789.3	2307.4	2999.1	3403.4	2680.9
65°	473.5	478.1	521.1	579.5	679.5	800.9	920.8	963.8	1166.8	1197.5	953.1
67.5°	395.1	399.7	445.8	501.1	565.7	598.0	628.7	625.7	648.7	639.5	638.0
70°	304.4	309.0	356.6	415.1	447.3	428.9	524.2	545.7	554.9	562.6	574.9
72.5°	219.8	229.0	265.9	307.4	290.5	333.6	432.0	464.2	476.5	481.2	496.5
75°	159.9	162.9	172.2	159.9	184.5	232.1	304.4	344.3	359.7	364.3	387.4
77.5°	70.7	72.2	73.8	92.2	118.4	144.5	181.4	213.7	235.2	241.3	247.5
80°	36.9	38.4	47.7	63.0	84.5	106.1	132.2	150.6	164.5	166.0	172.2
82.5°	23.1	24.6	33.8	44.6	60.0	78.4	96.8	112.2	123.0	124.5	126.1
85°	10.8	13.8	20.0	27.7	40.0	50.7	52.3	44.6	47.7	49.2	46.1
87.5°	3.1	4.6	6.1	4.6	6.1	6.1	7.7	9.2	9.2	9.2	10.8
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°	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4	1729.4
2.5°	1757.1	1743.2	1689.4	1669.4	1617.2	1626.4	1598.7	1597.2	1591.0	1589.5	1588.0
5°	1800.1	1757.1	1692.5	1643.3	1614.1	1611.0	1591.0	1591.0	1597.2	1601.8	1591.0
7.5°	1870.8	1821.6	1712.5	1666.4	1640.2	1635.6	1621.8	1611.0	1624.9	1620.2	1607.9
10°	1952.3	1866.2	1750.9	1710.9	1667.9	1657.1	1657.1	1661.7	1638.7	1646.4	1634.1
12.5°	2043.0	1927.7	1800.1	1754.0	1703.3	1697.1	1694.0	1660.2	1672.5	1666.4	1635.6
15°	2158.3	1998.4	1863.1	1784.7	1741.7	1714.0	1674.0	1667.9	1660.2	1644.8	1631.0
17.5°	2282.8	2075.3	1892.3	1794.0	1729.4	1709.4	1678.7	1646.4	1623.3	1626.4	1615.6
20°	2388.9	2146.0	1903.1	1803.2	1720.2	1681.7	1634.1	1614.1	1589.5	1588.0	1586.4
22.5°	2514.9	2241.3	1918.5	1778.6	1692.5	1652.5	1620.2	1584.9	1568.0	1546.5	1557.2
25°	2665.6	2278.2	1921.5	1764.7	1672.5	1601.8	1584.9	1546.5	1540.3	1509.6	1515.7
27.5°	2774.7	2298.2	1896.9	1721.7	1626.4	1572.6	1541.8	1514.2	1503.4	1480.4	1474.2
30°	2920.7	2328.9	1844.7	1667.9	1580.3	1520.3	1501.9	1495.7	1465.0	1440.4	1437.3
32.5°	3086.8	2348.9	1810.9	1612.6	1532.6	1486.5	1495.7	1466.5	1428.1	1406.6	1400.4
35°	3219.0	2356.6	1726.3	1549.5	1500.3	1471.1	1460.4	1454.2	1398.9	1378.9	1363.5
37.5°	3420.3	2339.7	1655.6	1505.0	1465.0	1454.2	1445.0	1403.5	1340.5	1311.3	1289.7
40°	3655.5	2335.1	1564.9	1441.9	1431.2	1443.5	1415.8	1351.2	1263.6	1231.3	1216.0
42.5°	3881.5	2367.3	1508.0	1408.1	1394.3	1398.9	1360.5	1263.6	1220.6	1202.1	1177.5
45°	4259.7	2435.0	1414.3	1355.8	1349.7	1346.6	1300.5	1199.0	1174.4	1151.4	1146.8
47.5°	4600.9	2390.4	1354.3	1302.0	1308.2	1291.3	1192.9	1160.6	1132.9	1109.9	1102.2
50°	4620.9	2284.3	1269.8	1260.5	1262.1	1232.9	1139.1	1117.6	1082.2	1066.8	1056.1
52.5°	4516.4	2110.6	1191.4	1194.4	1199.0	1151.4	1073.0	1057.6	1028.4	1006.9	1000.7
55°	4222.8	1840.1	1114.5	1126.8	1139.1	1048.4	1023.8	985.4	962.3	931.6	933.1
57.5°	3720.1	1481.9	1006.9	1026.9	1053.0	953.1	934.6	887.0	853.2	828.6	825.5
60°	2493.4	1054.5	845.5	853.2	911.6	871.6	870.1	822.4	776.3	754.8	742.5
62.5°	1471.1	805.5	730.2	722.5	721.0	744.0	782.5	765.5	705.6	664.1	676.4
65°	770.2	696.4	679.5	653.3	638.0	631.8	661.0	668.7	628.7	584.1	581.1
67.5°	647.2	647.2	633.3	624.1	602.6	576.5	558.0	533.4	527.3	515.0	499.6
70°	588.8	604.1	599.5	578.0	559.6	530.3	482.7	442.7	404.3	390.5	399.7
72.5°	513.4	528.8	528.8	518.0	493.5	448.9	402.8	356.6	324.4	299.8	296.7
75°	395.1	402.8	421.2	408.9	376.6	349.0	301.3	253.6	222.9	199.8	195.2
77.5°	252.1	264.4	264.4	262.9	239.8	213.7	182.9	149.1	126.1	109.1	104.5
80°	167.6	175.2	181.4	175.2	159.9	139.9	116.8	93.8	76.9	63.0	60.0
82.5°	123.0	132.2	136.8	130.7	115.3	99.9	83.0	66.1	49.2	38.4	35.4
85°	47.7	49.2	55.3	66.1	64.6	63.0	50.7	36.9	27.7	20.0	18.4
87.5°	12.3	10.8	12.3	12.3	10.8	9.2	9.2	9.2	9.2	4.6	6.1
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)