

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: P458836

Luminaire Tested: **GALN-SA3D-735-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21723 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

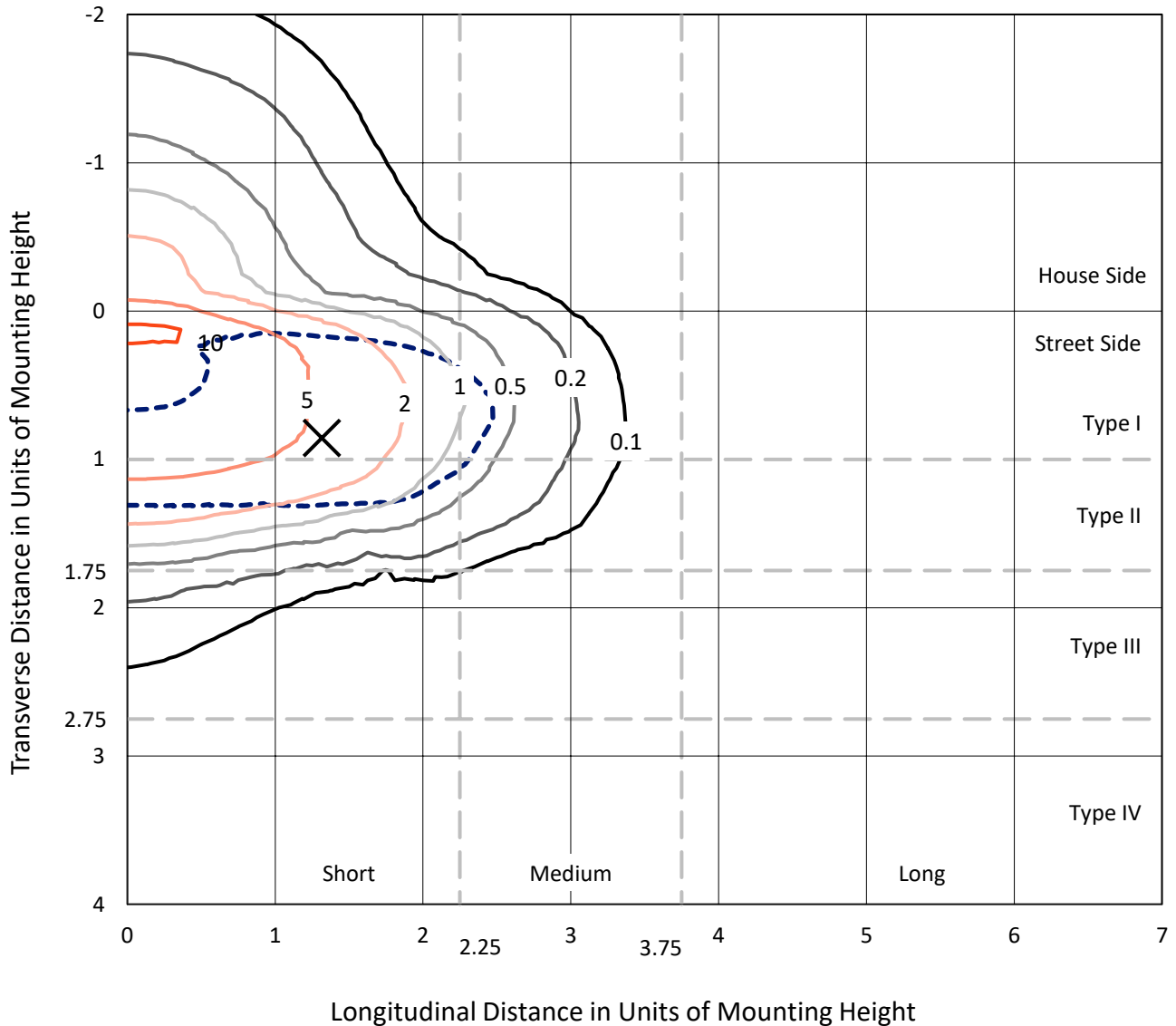
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

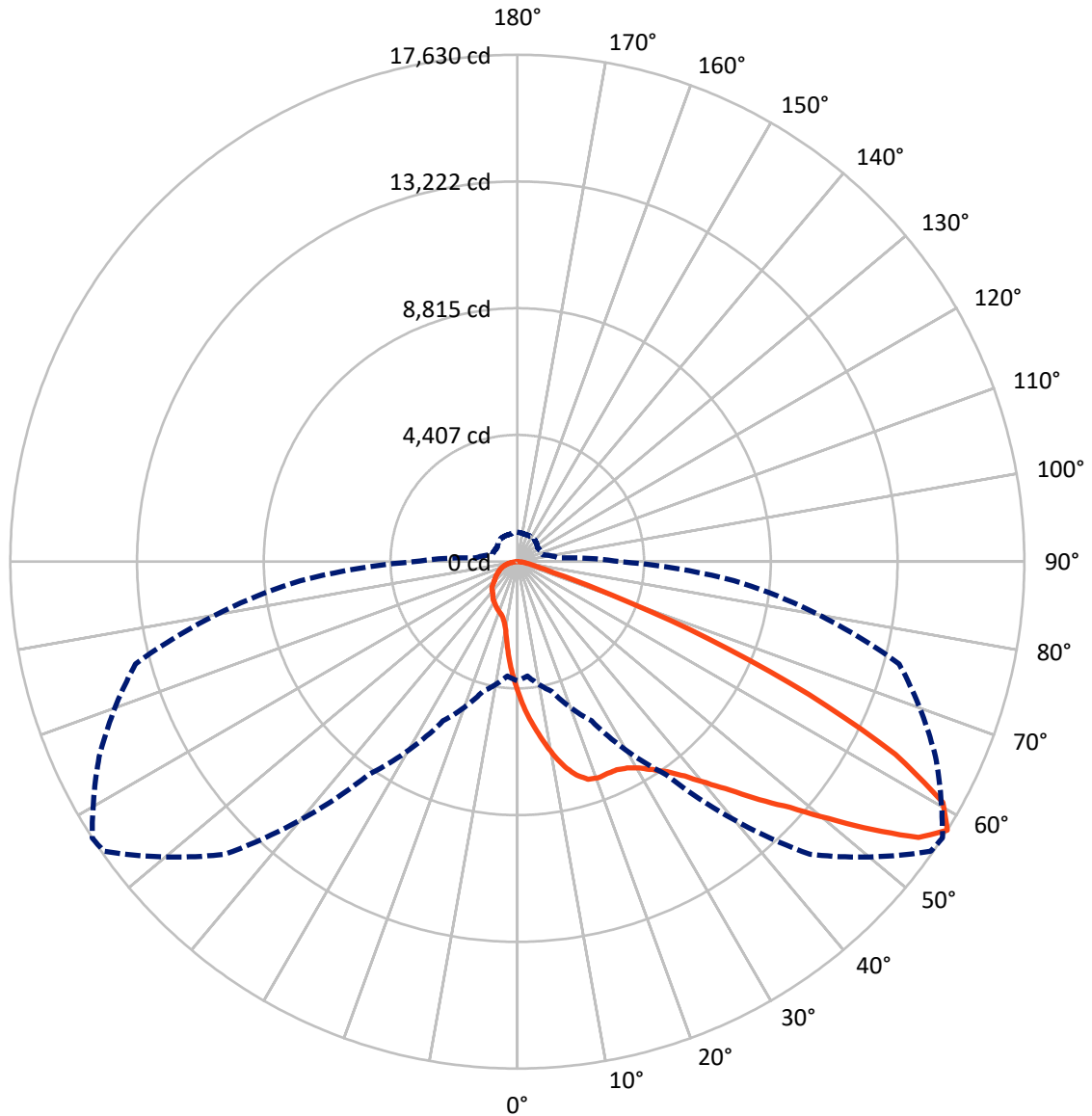
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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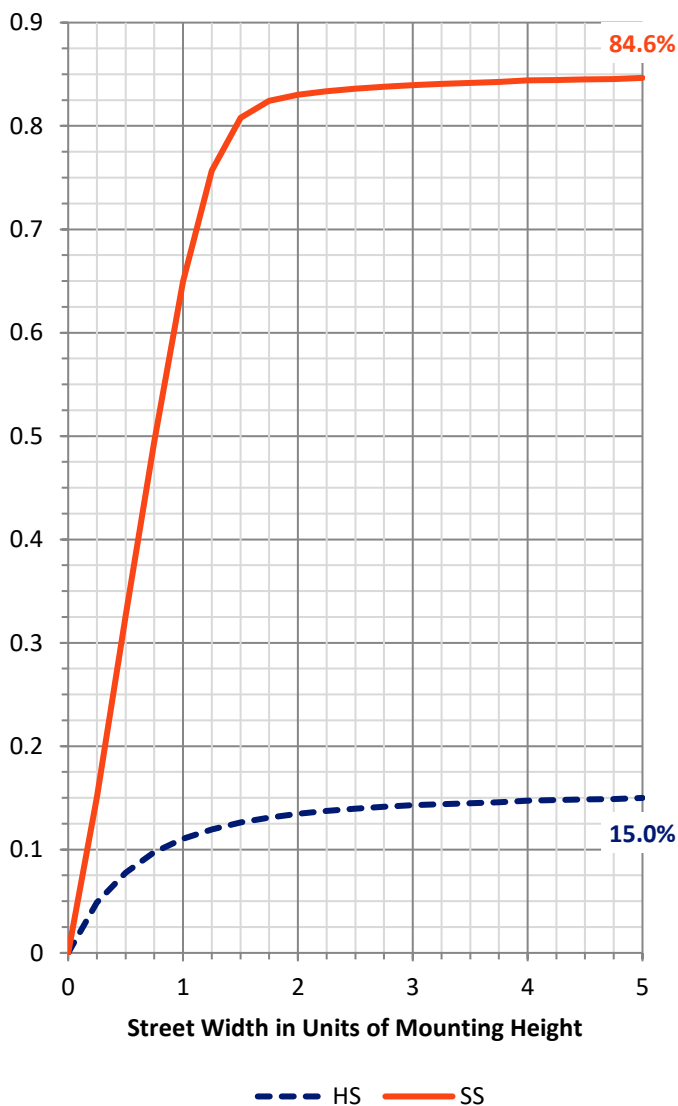
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3303.5	0.0	3303.5
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	18419.5	0.0	18419.5
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	21723.0	0.0	21723.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.6	2.0
10°-20°	1292.6	6.0
20°-30°	2146.5	9.9
30°-40°	3233.2	14.9
40°-50°	4854.3	22.3
50°-60°	5441.1	25.0
60°-70°	3184.4	14.7
70°-80°	941.9	4.3
80°-90°	190.4	0.9
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°	21723.0	100.0
0°-180°	21723.0	100.0

**Coefficient of Utilization**



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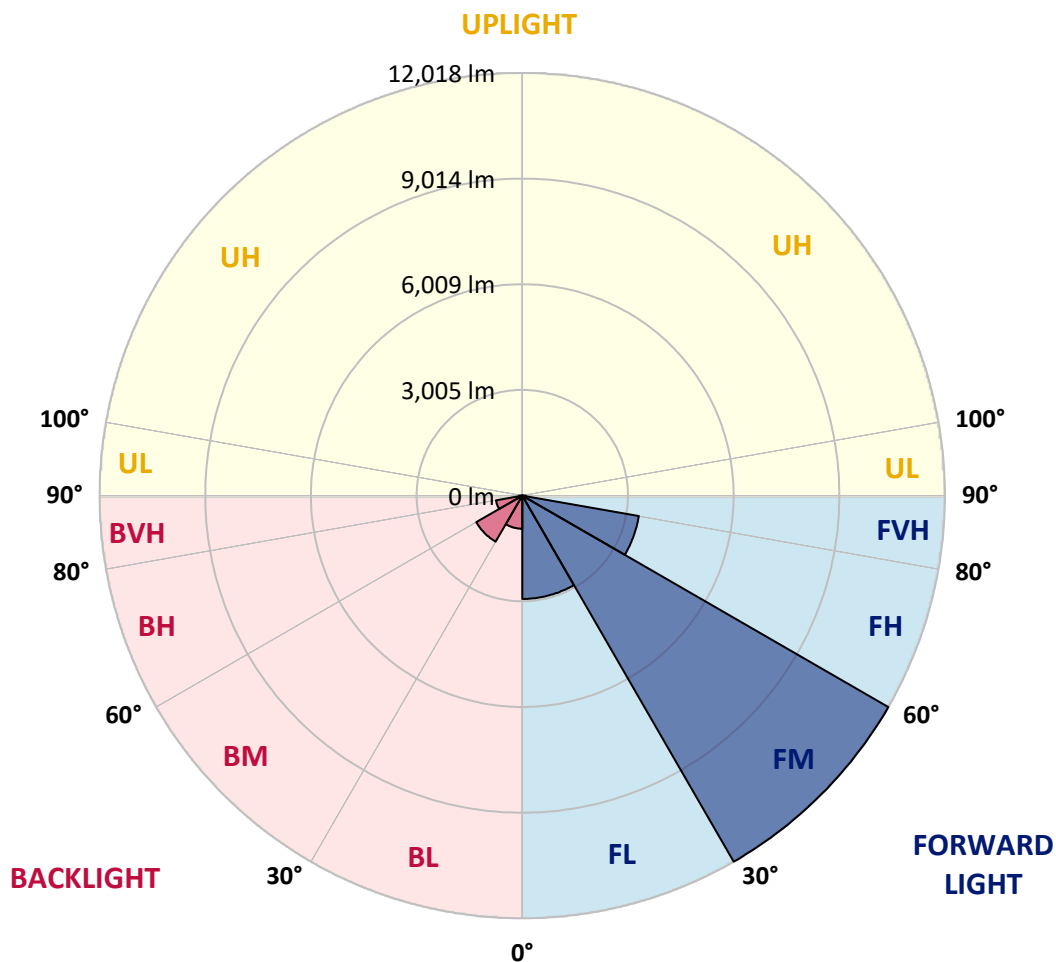
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2936.4	13.5			
FM	(30°-60°)	12018.1	55.3			
FH	(60°-80°)	3366.2	15.5			G2/5000
FVH	(80°-90°)	98.8	0.5			G1/100
BL	(0°-30°)	941.3	4.3	B2/1000		
BM	(30°-60°)	1510.5	7.0	B2/2500		
BH	(60°-80°)	760.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	91.6	0.4			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°	57°	65°	75°	85°
0°	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8
2.5°	5670.8	5609.0	5560.2	5517.4	5461.5	5310.5	5159.5	5157.1	5037.0	4851.5	4661.3
5°	6594.7	6511.5	6522.2	6389.0	6255.8	6037.0	5717.2	5700.5	5444.9	5097.7	4744.5
7.5°	7196.4	7197.6	7164.3	7088.2	6944.3	6695.8	6333.1	6251.1	5895.5	5368.8	4839.6
10°	7165.5	7197.6	7253.5	7318.9	7362.9	7240.4	6909.8	6810.0	6347.4	5697.0	4945.5
12.5°	6754.1	6804.0	6883.7	7047.8	7312.9	7515.1	7402.1	7321.3	6870.6	6024.0	5062.0
15°	6497.2	6527.0	6570.9	6681.5	6966.9	7450.9	7743.4	7700.6	7364.1	6393.8	5192.8
17.5°	6418.7	6448.5	6462.7	6530.5	6733.9	7229.7	7877.8	7953.9	7801.7	6733.9	5324.8
20°	6497.2	6511.5	6511.5	6551.9	6711.3	7100.1	7871.8	8025.2	8160.8	7141.7	5448.4
22.5°	6702.9	6708.9	6700.6	6714.8	6833.7	7135.8	7815.9	8006.2	8450.9	7487.7	5544.8
25°	7037.1	7046.6	6991.9	6958.6	7045.4	7292.7	7846.9	8021.6	8678.0	7818.3	5609.0
27.5°	7416.4	7428.3	7361.7	7284.4	7324.8	7486.6	7968.1	8125.1	8848.1	8144.1	5649.4
30°	7881.3	7886.1	7774.3	7681.6	7655.4	7775.5	8175.0	8321.3	9059.7	8528.2	5710.0
32.5°	8357.0	8392.6	8248.8	8118.0	8074.0	8110.8	8480.6	8622.1	9311.8	8940.8	5807.5
35°	9003.8	9009.8	8837.4	8678.0	8533.0	8580.5	8871.9	8974.1	9660.2	9417.6	5945.5
37.5°	9811.2	9865.9	9628.1	9330.8	9152.5	9083.5	9345.1	9456.9	10148.9	10002.7	6153.6
40°	10707.8	10728.0	10524.7	10339.2	10013.4	9813.6	9994.4	10115.6	10751.8	10700.7	6395.0
42.5°	11271.4	11315.4	11330.9	11311.9	11066.9	10731.6	10800.6	10857.6	11465.3	11355.9	6642.3
45°	11461.7	11527.1	11748.3	12216.8	12242.9	11912.4	11751.8	11806.5	12242.9	12017.0	6878.9
47.5°	11146.6	11258.4	11666.2	12627.0	13346.4	13371.4	12887.4	12767.3	12951.6	12565.2	7050.2
50°	10332.1	10355.8	10980.1	12371.4	13863.7	14766.2	14265.6	14042.0	13624.7	12970.7	7167.9
52.5°	9071.6	9099.0	9622.2	11183.5	13545.0	15741.3	15878.0	15478.5	14308.4	13285.8	7245.2
55°	6733.9	6892.0	7467.5	8976.5	12034.8	15649.7	17159.9	16932.7	15134.8	13535.5	7366.5
57.5°	4140.4	3995.4	4677.9	6107.2	9051.4	14391.6	17555.8	17629.5	16044.5	13744.8	7569.8
60°	1904.9	1933.5	2215.3	3149.9	5517.4	11258.4	16535.6	17001.7	16547.5	13737.6	7620.9
62.5°	1312.8	1286.6	1215.3	1382.9	2516.1	7120.3	13967.1	14756.7	15539.1	13310.8	7417.6
65°	1173.6	1147.5	1009.5	963.2	1155.8	3103.5	10153.7	11150.2	13083.6	12233.4	6911.0
67.5°	1096.3	1060.7	918.0	827.6	825.2	1235.5	5987.1	7186.9	9704.2	10342.8	5988.3
70°	1015.5	987.0	845.4	745.6	702.8	776.5	2631.5	3444.8	6301.0	7453.3	4664.8
72.5°	934.6	901.3	774.1	667.1	611.2	581.5	1008.4	1311.6	3560.2	4468.6	2859.8
75°	816.9	800.3	692.1	604.1	543.4	469.7	639.7	730.1	1702.8	2052.4	1435.2
77.5°	714.6	696.8	614.8	528.0	484.0	381.7	454.2	495.9	718.2	832.4	648.1
80°	523.2	541.0	518.4	466.1	431.6	299.7	305.6	340.1	426.9	472.1	396.0
82.5°	331.8	365.1	399.5	359.1	327.0	236.6	211.7	224.7	291.3	309.2	176.0
85°	139.1	141.5	231.9	218.8	186.7	140.3	127.2	134.4	155.8	162.9	82.0
87.5°	53.5	52.3	82.0	76.1	58.3	40.4	40.4	45.2	61.8	57.1	26.2
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°	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8	4563.8
2.5°	4579.2	4494.8	4327.1	4119.0	3966.8	3795.6	3644.6	3536.4	3495.9	3476.9	3441.2
5°	4575.6	4409.2	4062.0	3698.1	3405.6	3105.9	2852.6	2688.5	2674.3	2564.9	2554.2
7.5°	4576.8	4322.4	3769.4	3234.3	2788.4	2481.6	2272.4	2217.7	2152.3	2135.6	2143.9
10°	4580.4	4211.8	3455.5	2775.4	2343.7	2142.8	2064.3	2042.9	2045.2	2052.4	2053.6
12.5°	4585.2	4104.8	3129.7	2426.9	2094.0	2010.8	2002.4	2021.5	2041.7	2057.1	2060.7
15°	4591.1	3982.3	2812.2	2146.3	1969.1	1962.0	1989.4	2021.5	2050.0	2072.6	2076.2
17.5°	4584.0	3839.6	2545.9	1973.9	1900.2	1934.7	1979.8	2020.3	2046.4	2067.8	2070.2
20°	4567.3	3680.3	2289.0	1852.6	1857.4	1913.3	1962.0	2000.1	2028.6	2039.3	2047.6
22.5°	4503.1	3490.0	2065.5	1758.7	1806.2	1883.5	1941.8	1964.4	1932.3	1909.7	1915.6
25°	4393.7	3242.7	1857.4	1682.6	1759.9	1841.9	1901.4	1846.7	1820.5	1811.0	1815.8
27.5°	4257.0	2971.6	1700.4	1602.9	1700.4	1795.5	1778.9	1769.4	1757.5	1742.0	1745.6
30°	4109.5	2706.4	1567.2	1541.1	1636.2	1690.9	1698.0	1713.5	1700.4	1676.6	1686.1
32.5°	3972.8	2456.7	1466.2	1488.7	1591.0	1582.7	1636.2	1654.0	1593.4	1513.7	1517.3
35°	3856.2	2224.8	1390.1	1437.6	1513.7	1517.3	1570.8	1509.0	1443.6	1405.5	1407.9
37.5°	3768.2	2044.1	1340.1	1393.6	1415.0	1460.2	1431.7	1399.6	1391.2	1365.1	1366.3
40°	3715.9	1885.9	1308.0	1359.1	1355.6	1386.5	1294.9	1327.0	1338.9	1330.6	1331.8
42.5°	3663.6	1774.1	1274.7	1311.6	1310.4	1249.7	1229.5	1256.9	1287.8	1291.4	1289.0
45°	3622.0	1687.3	1240.2	1239.0	1262.8	1167.7	1161.7	1178.4	1222.4	1243.8	1242.6
47.5°	3575.6	1614.8	1187.9	1154.6	1161.7	1116.6	1107.0	1114.2	1167.7	1202.2	1211.7
50°	3517.3	1542.3	1122.5	1077.3	1047.6	1069.0	1071.4	1072.6	1126.1	1165.3	1173.6
52.5°	3471.0	1487.6	1047.6	1014.3	978.6	1026.2	1044.0	1046.4	1078.5	1110.6	1116.6
55°	3498.3	1456.6	973.9	950.1	918.0	982.2	1016.7	1021.4	1028.6	1052.4	1055.9
57.5°	3580.4	1463.8	914.4	883.5	859.7	929.9	988.1	991.7	987.0	1015.5	1020.2
60°	3605.3	1460.2	870.4	809.8	795.5	874.0	946.5	953.7	952.5	994.1	1002.4
62.5°	3500.7	1415.0	826.4	747.9	738.4	816.9	888.3	916.8	922.7	982.2	992.9
65°	3254.6	1322.3	768.2	682.5	682.5	756.3	832.4	871.6	888.3	967.9	979.8
67.5°	2929.9	1212.9	708.7	626.7	624.3	698.0	772.9	813.3	839.5	947.7	954.8
70°	2431.7	1065.4	635.0	566.0	566.0	632.6	700.4	749.1	787.2	909.7	909.7
72.5°	1665.9	885.9	545.8	497.0	498.2	560.1	629.0	683.7	728.9	833.6	835.9
75°	1053.5	692.1	448.3	423.3	428.1	486.3	557.7	614.8	705.1	824.0	827.6
77.5°	560.1	486.3	356.7	350.8	356.7	410.2	489.9	568.4	707.5	714.6	702.8
80°	362.7	344.8	281.8	269.9	272.3	330.6	436.4	539.8	568.4	575.5	549.4
82.5°	197.4	218.8	199.8	187.9	187.9	258.0	372.2	429.3	407.9	338.9	323.4
85°	84.4	102.3	103.5	90.4	86.8	159.3	249.7	234.3	217.6	208.1	205.7
87.5°	23.8	33.3	33.3	25.0	19.0	44.0	49.9	14.3	0.0	1.2	2.4
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)