

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: P527046

Luminaire Tested: **GALN-SA2A-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527046  
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-SA2A-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA 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: 7528 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - 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

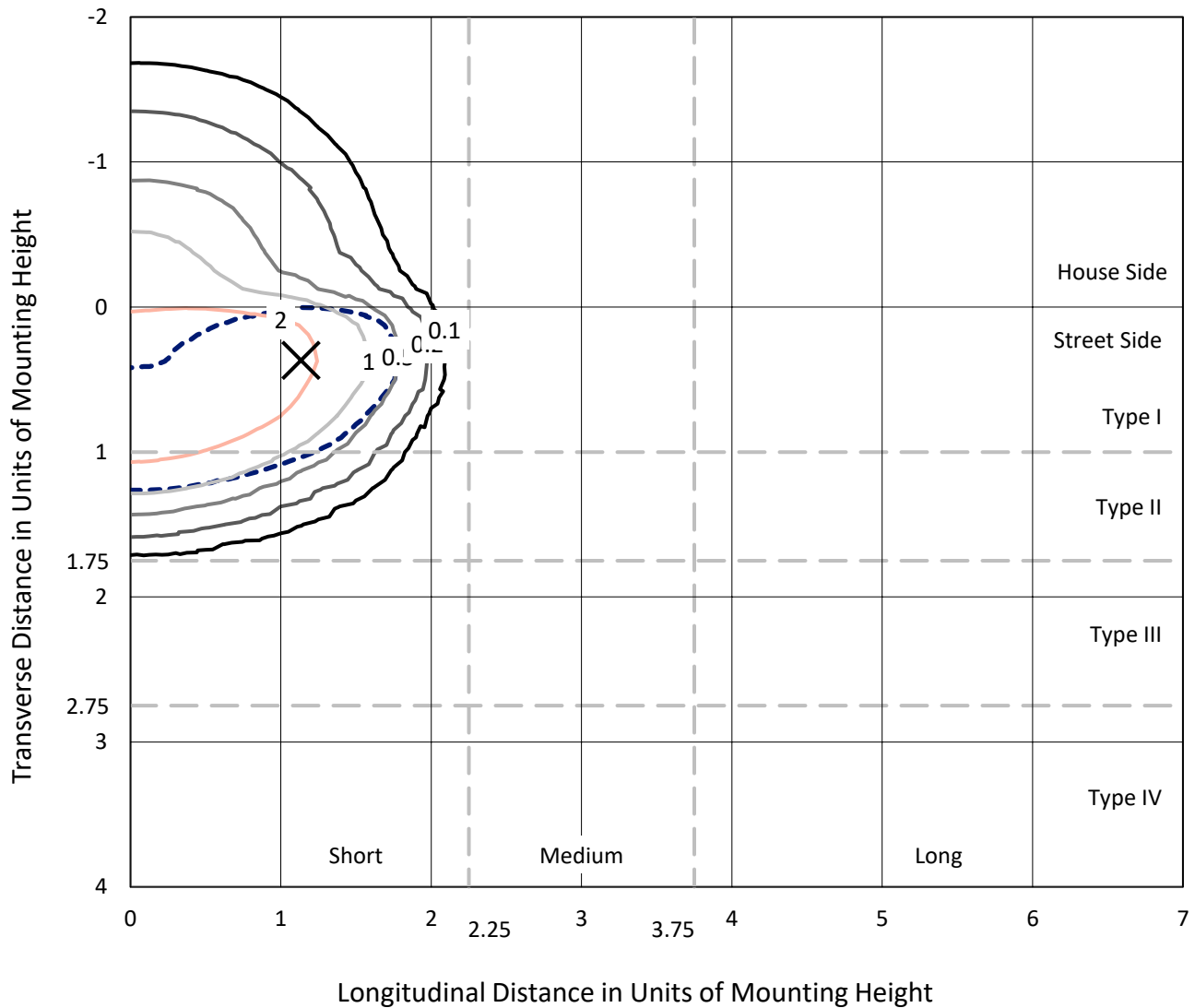


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## Iso-Footcandle Lines of Horizontal Illumination

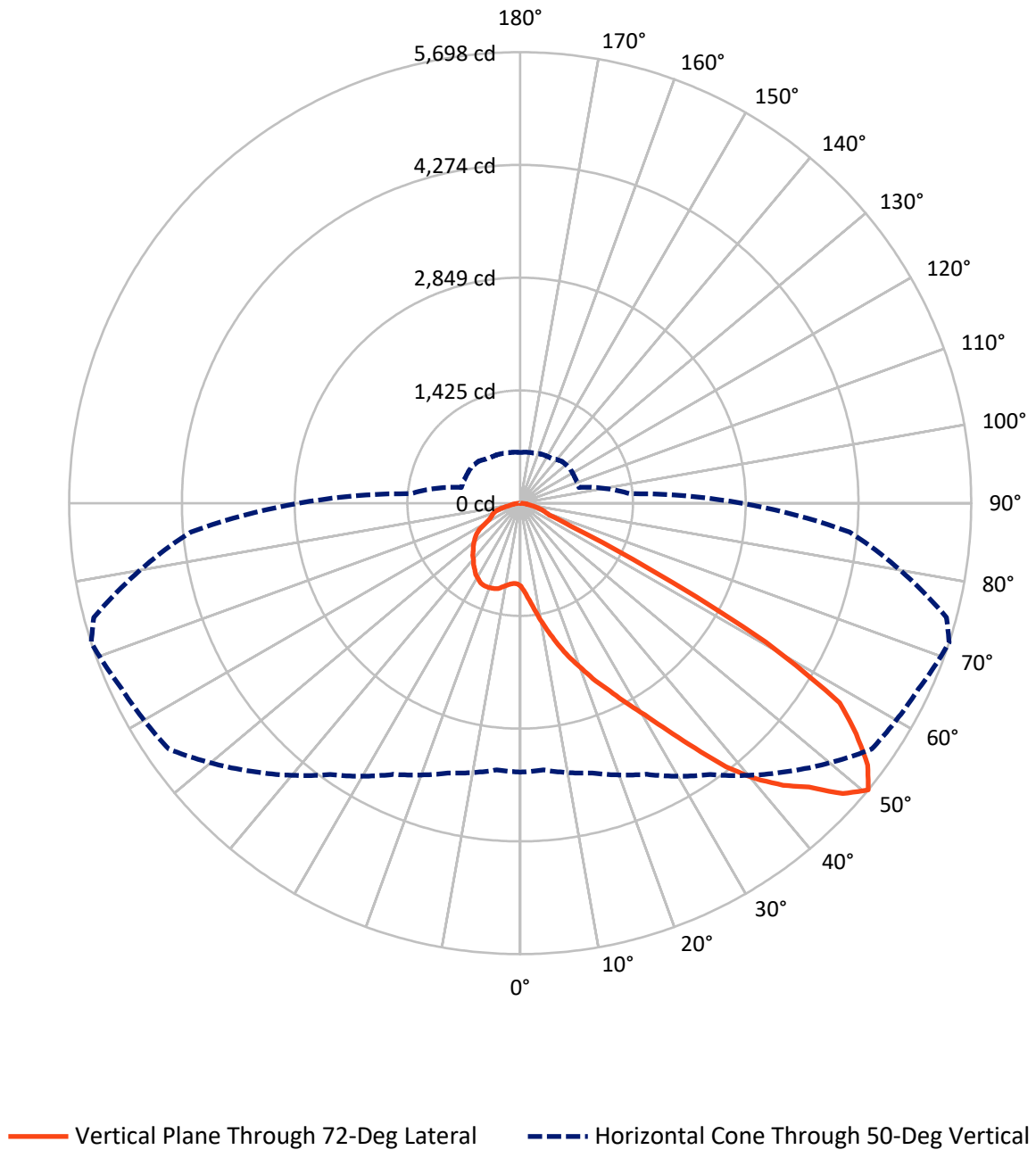
✕ Max cd  
 - - - 1/2 Max cd



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

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## Luminous Intensity Polar Plot



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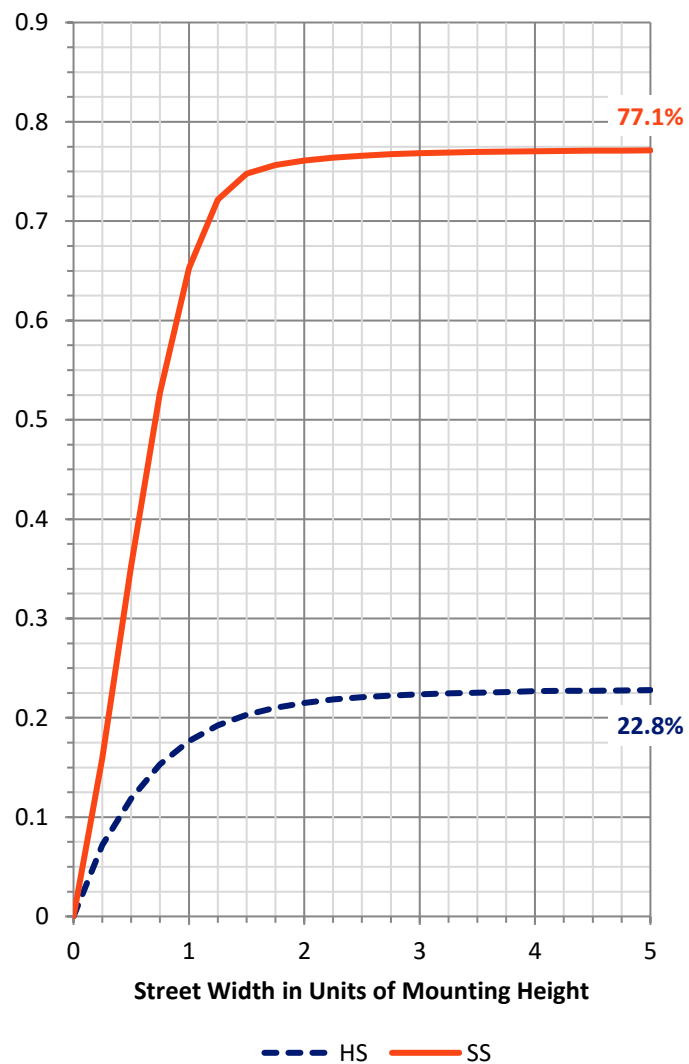
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1724.7	0.0	1724.7
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5803.3	0.0	5803.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7528.0	0.0	7528.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	1.6
10°-20°	460.8	6.1
20°-30°	893.5	11.9
30°-40°	1480.2	19.7
40°-50°	2071.1	27.5
50°-60°	1747.2	23.2
60°-70°	532.6	7.1
70°-80°	186.8	2.5
80°-90°	32.5	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°	7528.0	100.0
0°-180°	7528.0	100.0

**Coefficient of Utilization**



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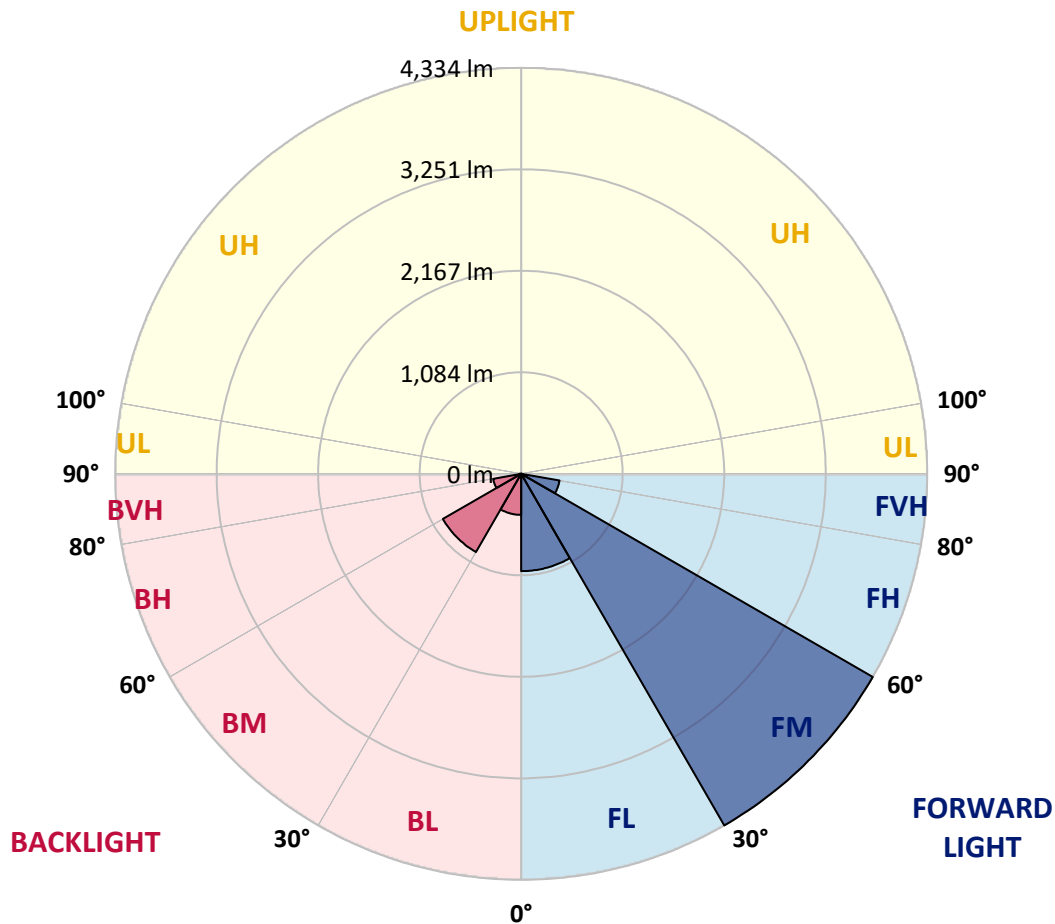
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.1	13.8			
FM	(30°-60°)	4334.1	57.6			
FH	(60°-80°)	415.5	5.5			G0/660
FVH	(80°-90°)	14.5	0.2			G1/100
BL	(0°-30°)	438.4	5.8	B1/500		
BM	(30°-60°)	964.5	12.8	B1/1000		
BH	(60°-80°)	303.9	4.0	B1/500		G1/500
BVH	(80°-90°)	17.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0
2.5°	1347.9	1339.5	1314.4	1306.0	1276.2	1222.2	1203.5	1148.6	1125.3	1103.9	1078.7
5°	1704.7	1665.6	1662.8	1615.3	1546.3	1506.3	1387.0	1306.9	1233.3	1196.1	1127.1
7.5°	1932.0	1932.9	1932.9	1893.8	1838.8	1737.3	1630.2	1485.8	1374.9	1320.0	1202.6
10°	2148.1	2129.5	2119.2	2115.5	2078.2	1979.5	1864.9	1686.1	1534.2	1469.9	1259.4
12.5°	2300.9	2285.0	2308.3	2296.2	2269.2	2204.9	2096.9	1892.9	1702.8	1616.2	1350.7
15°	2373.5	2384.7	2403.3	2436.9	2424.8	2400.5	2281.3	2105.2	1884.5	1786.7	1431.7
17.5°	2485.3	2454.6	2476.9	2518.8	2552.4	2541.2	2473.2	2258.9	2064.3	1944.1	1540.7
20°	2563.5	2545.8	2557.0	2605.5	2630.6	2694.0	2658.6	2460.1	2236.6	2109.9	1669.3
22.5°	2787.1	2761.0	2724.7	2732.2	2741.5	2786.2	2794.6	2680.9	2436.9	2302.7	1791.3
25°	3062.8	3038.6	2995.8	2952.0	2925.0	2916.6	2945.5	2854.2	2628.8	2490.0	1922.7
27.5°	3366.5	3325.5	3298.5	3208.2	3135.5	3124.3	3110.4	3061.0	2856.0	2706.1	2070.8
30°	3661.8	3629.2	3592.9	3448.5	3373.0	3360.9	3292.0	3306.0	3102.9	2936.2	2238.4
32.5°	3885.4	3888.2	3805.3	3696.3	3625.5	3561.2	3536.1	3576.1	3419.6	3285.5	2425.7
35°	4066.1	4074.5	3995.3	3896.6	3820.2	3864.9	3853.7	3872.3	3797.8	3633.9	2643.7
37.5°	4242.1	4200.2	4115.5	4068.0	4027.9	4101.5	4196.5	4212.3	4226.3	4033.5	2897.0
40°	4271.0	4274.8	4225.4	4258.9	4208.6	4319.5	4540.2	4519.7	4576.6	4408.0	3171.8
42.5°	4230.0	4238.4	4258.0	4305.5	4426.6	4559.8	4887.7	4803.9	4872.8	4722.8	3439.2
45°	4163.0	4128.5	4152.7	4333.4	4543.0	4839.3	5205.3	5140.1	5117.8	4992.0	3757.8
47.5°	3842.5	3877.9	3953.4	4176.0	4490.9	4887.7	5430.8	5415.9	5482.9	5394.4	4047.5
50°	3398.2	3384.2	3529.5	3780.1	4186.3	4792.7	5418.7	5553.7	5698.1	5575.2	4176.9
52.5°	2544.9	2619.4	2744.3	3055.4	3634.8	4274.8	5154.1	5379.5	5496.9	5470.8	4072.6
55°	1608.7	1631.1	1706.5	2076.4	2598.0	3430.8	4418.2	4940.8	5150.4	5248.2	3976.7
57.5°	781.5	739.6	831.8	1129.0	1500.7	2307.4	3407.5	4303.6	4759.1	4936.1	3768.0
60°	408.0	423.8	460.2	566.4	776.0	1197.9	2123.9	2868.2	3564.0	3836.0	2856.0
62.5°	338.1	343.7	368.0	421.0	516.1	689.3	1084.3	1398.2	1817.4	2062.4	1624.6
65°	286.9	289.7	315.8	351.2	411.7	485.3	558.0	584.1	707.0	725.7	577.5
67.5°	239.4	242.2	270.1	303.7	342.8	362.4	381.0	379.1	393.1	387.5	386.6
70°	184.4	187.2	216.1	251.5	271.1	259.9	317.6	330.7	336.3	340.9	348.4
72.5°	133.2	138.8	161.2	186.3	176.1	202.1	261.8	281.3	288.8	291.6	300.9
75°	96.9	98.7	104.3	96.9	111.8	140.7	184.4	208.7	218.0	220.8	234.7
77.5°	42.8	43.8	44.7	55.9	71.7	87.6	109.9	129.5	142.5	146.2	150.0
80°	22.4	23.3	28.9	38.2	51.2	64.3	80.1	91.3	99.7	100.6	104.3
82.5°	14.0	14.9	20.5	27.0	36.3	47.5	58.7	68.0	74.5	75.5	76.4
85°	6.5	8.4	12.1	16.8	24.2	30.7	31.7	27.0	28.9	29.8	27.9
87.5°	1.9	2.8	3.7	2.8	3.7	3.7	4.7	5.6	5.6	5.6	6.5
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°	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0	1048.0
2.5°	1064.7	1056.3	1023.7	1011.6	980.0	985.5	968.8	967.9	964.1	963.2	962.3
5°	1090.8	1064.7	1025.6	995.8	978.1	976.2	964.1	964.1	967.9	970.6	964.1
7.5°	1133.7	1103.9	1037.7	1009.8	993.9	991.1	982.8	976.2	984.6	981.8	974.4
10°	1183.0	1130.9	1061.0	1036.8	1010.7	1004.2	1004.2	1007.0	993.0	997.7	990.2
12.5°	1238.0	1168.1	1090.8	1062.9	1032.1	1028.4	1026.5	1006.0	1013.5	1009.8	991.1
15°	1307.9	1211.0	1129.0	1081.5	1055.4	1038.6	1014.4	1010.7	1006.0	996.7	988.3
17.5°	1383.3	1257.6	1146.7	1087.1	1048.0	1035.9	1017.2	997.7	983.7	985.5	979.0
20°	1447.6	1300.4	1153.2	1092.7	1042.4	1019.1	990.2	978.1	963.2	962.3	961.3
22.5°	1524.0	1358.2	1162.5	1077.8	1025.6	1001.4	981.8	960.4	950.2	937.1	943.6
25°	1615.3	1380.5	1164.4	1069.4	1013.5	970.6	960.4	937.1	933.4	914.8	918.5
27.5°	1681.4	1392.6	1149.5	1043.3	985.5	952.9	934.3	917.5	911.0	897.1	893.3
30°	1769.9	1411.3	1117.8	1010.7	957.6	921.3	910.1	906.4	887.7	872.8	871.0
32.5°	1870.5	1423.4	1097.3	977.2	928.7	900.8	906.4	888.7	865.4	852.3	848.6
35°	1950.6	1428.0	1046.1	939.0	909.2	891.5	884.9	881.2	847.7	835.6	826.3
37.5°	2072.6	1417.8	1003.2	912.0	887.7	881.2	875.6	850.5	812.3	794.6	781.5
40°	2215.2	1415.0	948.3	873.8	867.2	874.7	857.9	818.8	765.7	746.1	736.8
42.5°	2352.1	1434.5	913.8	853.3	844.9	847.7	824.4	765.7	739.6	728.4	713.5
45°	2581.2	1475.5	857.0	821.6	817.9	816.0	788.1	726.6	711.7	697.7	694.9
47.5°	2788.0	1448.5	820.7	789.0	792.7	782.5	722.9	703.3	686.5	672.6	667.9
50°	2800.2	1384.2	769.4	763.8	764.8	747.1	690.3	677.2	655.8	646.5	640.0
52.5°	2736.8	1279.0	721.9	723.8	726.6	697.7	650.2	640.9	623.2	610.1	606.4
55°	2558.9	1115.0	675.4	682.8	690.3	635.3	620.4	597.1	583.1	564.5	565.4
57.5°	2254.3	898.0	610.1	622.3	638.1	577.5	566.4	537.5	517.0	502.1	500.2
60°	1510.9	639.0	512.3	517.0	552.4	528.2	527.2	498.4	470.4	457.4	449.9
62.5°	891.5	488.1	442.5	437.8	436.9	450.9	474.1	463.9	427.6	402.4	409.9
65°	466.7	422.0	411.7	395.9	386.6	382.9	400.6	405.2	381.0	354.0	352.1
67.5°	392.2	392.2	383.8	378.2	365.2	349.3	338.1	323.2	319.5	312.1	302.7
70°	356.8	366.1	363.3	350.3	339.1	321.4	292.5	268.3	245.0	236.6	242.2
72.5°	311.1	320.4	320.4	313.9	299.0	272.0	244.1	216.1	196.6	181.6	179.8
75°	239.4	244.1	255.2	247.8	228.2	211.5	182.6	153.7	135.1	121.1	118.3
77.5°	152.8	160.2	160.2	159.3	145.3	129.5	110.9	90.4	76.4	66.1	63.3
80°	101.5	106.2	109.9	106.2	96.9	84.8	70.8	56.8	46.6	38.2	36.3
82.5°	74.5	80.1	82.9	79.2	69.9	60.5	50.3	40.1	29.8	23.3	21.4
85°	28.9	29.8	33.5	40.1	39.1	38.2	30.7	22.4	16.8	12.1	11.2
87.5°	7.5	6.5	7.5	7.5	6.5	5.6	5.6	5.6	5.6	2.8	3.7
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)